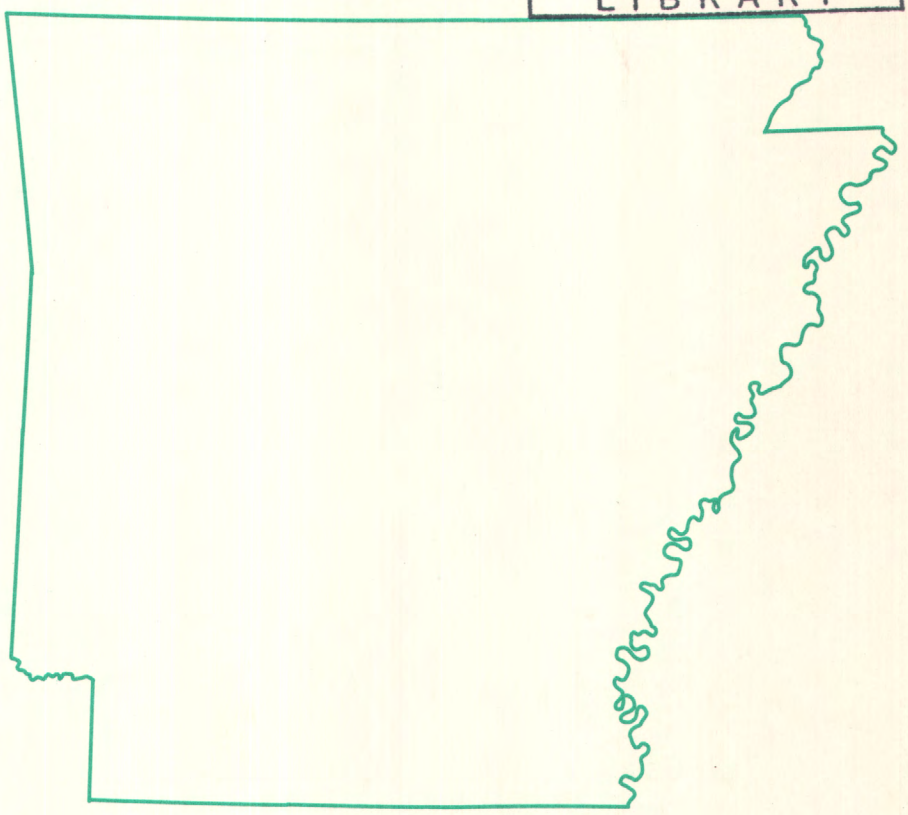
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Water Resources Data Arkansas Water Year 1990

by J.E. Porter, P.W. Westerfield, and B.F. Lambert



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Prepared in cooperation with the Arkansas Department of Pollution Control and Ecology; Arkansas Game and Fish Commission; Arkansas Geological Commission; Arkansas Soil and Water Conservation Commission; Arkansas State Highway and Transportation Department; Independence County; Little Rock Municipal Water Works; and with other State and Federal agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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District Chief, Water Resources Division
U.S. Geological Survey
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Little Rock, Arkansas 72201-3287

1991

PREFACE

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

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines.

The data were collected, computed, and processed by the following personnel:

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This report was prepared in cooperation with the State of Arkansas, and with other agencies under the general supervision of T.E. "Terry" Lamb, Assistant District Chief for Hydrologic Surveillance, and E. E. "Gene" Gann, District Chief, Arkansas.

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16. Abstract (Limit: 200 words)

The Water Resources Division of the U.S. Geological Survey, in cooperation with State, Federal, and other local governmental agencies, obtains a large amount of data pertaining to the water resources of Arkansas each year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State.

Water resources data for the 1990 water year for Arkansas consist of records of gage height, discharge, and water quality of streams; water quality of lakes; water levels, and water quality of observation wells. This report contains discharge records for 52 gaging stations; water-quality data for 154 regular water-quality stations, 87 partial-record water-quality stations, 5 observation wells, and 1 precipitation station; water-level measurements for 82 observation wells. Also included are data for 84 crest-stage partial-record surface-water stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as low-flow and miscellaneous measurements. these data represent that part of the National Water Information System operated by the U.S. Geological Survey in cooperation with State and Federal agencies in Arkansas.

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[Letters after station name designate type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment, (e) evaluation, gage heights, or contents.]

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WATER RESOURCES DATA FOR ARKANSAS, 1990

INTRODUCTION

Water resources data for the 1990 water year for Arkansas consist of records of gage height, discharge, and water quality of streams; water quality of lakes; and ground-water levels and quality. This report contains daily discharge records for 52 gaging stations; water quality for 154 stations, 87 partial-record stations, 5 ground-water observation wells, and 1 precipitation station; and ground-water-level data for 82 observation wells. Also included are data for 84 peak-discharge partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as low-flow and miscellaneous measurements. These data represent that part of the National Water Information System operated by the U.S. Geological Survey in cooperation with State and Federal agencies in Arkansas.

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

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as U.S. Geological Survey Water Data Report AR-90-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

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

Arkansas Department of Pollution Control and Ecology, Randall Mathis, Director.
Arkansas Game and Fish Commission, Steve Wilson, Director.
Arkansas Geological Commission, Norman F. Williams, State Geologist.
Arkansas Soil and Water Conservation Commission, J. Randy Young, Director.
Arkansas State Highway and Transportation Department, Maurice Smith, Director.
Independence County, David Wyatt, County Judge
Little Rock Municipal Water Works, Don C. Morrow, Manager

Assistance in the form of funds or services was provided by the Corps of Engineers, National Weather Service, National Park Service, Soil Conservation Service, and Arkansas Power and Light Company in collecting records for some of the gaging stations and water-quality stations published in this report.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Surface-Water Discharge

Streamflow was above normal for the 1990 water year. From April 30 through May 3, warm, moist air lifting over a cool stationary front in Arkansas and Oklahoma caused torrential rains to fall, especially in northern Texas, eastern Oklahoma, and western Arkansas. These rains persisted for three days causing heavy run-off. The peak discharges experienced at the three gaging stations on the Arkansas River were the greatest since 1957. The peak discharge of 270,000 ft^3/s at Red River at Index, in southwestern Arkansas, was the highest since 1938. The Red River caused the westbound lanes of I-30 near Fulton, Arkansas, to be closed for several days due to inundation.

Additional storms on May 19-20, which produced 12.97 inches of rain in less than 24 hours, caused severe local flooding in the city of Hot Springs, located in the central part of the state. The gaging station downstream on the Ouachita River near Malvern was destroyed when the 90-year old iron-structure bridge was washed out by the flood. The peak discharge of 166,000 ft^3/s at the Malvern gaging station was the highest for the period of record.

Thirty-nine counties in Arkansas were declared disaster areas due to the destructive flooding experienced during the month of May. According to local newspapers, estimated damage to roads, bridges, houses, businesses, and agriculture exceeded $250 million.

Runoff for the year at the index station on the Buffalo River near St. Joe, in northern Arkansas, was 150 percent of median for the base period 1951-89. Runoff at the index station on the Saline River near Rye, in southern Arkansas, was 168 percent of median for the base period 1951-89.

Monthly and annual mean discharge for the 1990 water year, and the median for the monthly and annual mean discharges for ther period 1951-80 at St. Joe and Rye are shown on figure 1.

Surface-Water Quality

Arkansas streams provide an abundant supply of water of good quality, suitable for many uses. Localized stream pollution occurs in some areas of agricultural-chemical use, near large urban areas, and near some industrial areas.

Both point and non-point sources of contamination adversely affect the suitability of surface water for drinking, recreation, and aquatic life. The Mississippi Alluvial Plain in the State is particularly susceptible to non-point source effects due both to extensive farming and current farming practices.

Surface water in the Ozark Plateaus, which is experiencing rapid population growth, locally is affected by both point and non-point sources of contamination. Principal point sources are wastewater treatment plants. Principal non-point source contributions are related to farming practices. Watersheds where non-point source contamination is a major concern are the upper White River, Illinois River, and Beaver Lake.

Streams in the West Gulf Coastal Plain of southern Arkansas locally are affected by point sources of contamination, many of which are related to oil and gas production.

Although the Arkansas River and other streams in the Arkansas Valley are affected locally by pollution sources, they continue to be considered as a source of water for public supply and irrigation. Many of the small streams continue to show effects of coal mining. Seepage from naturally occurring salt deposits in Kansas and Oklahoma, which increases the salinity of the Arkansas River, may render the river unsuitable for some uses during extreme low flow periods. Municipal and industrial discharges to the river also may affect its potability, however, storage effects of the Arkansas River Navigation System and tributary dams have moderated the effects of inflowing pollutants.

Concentrations of selected water-quality constituents are listed below for sampling sites on some principal streams in the State. Concentrations of the constituents for the 1990 water year are compared to concentrations for the period of record to indicate changes in water quality.

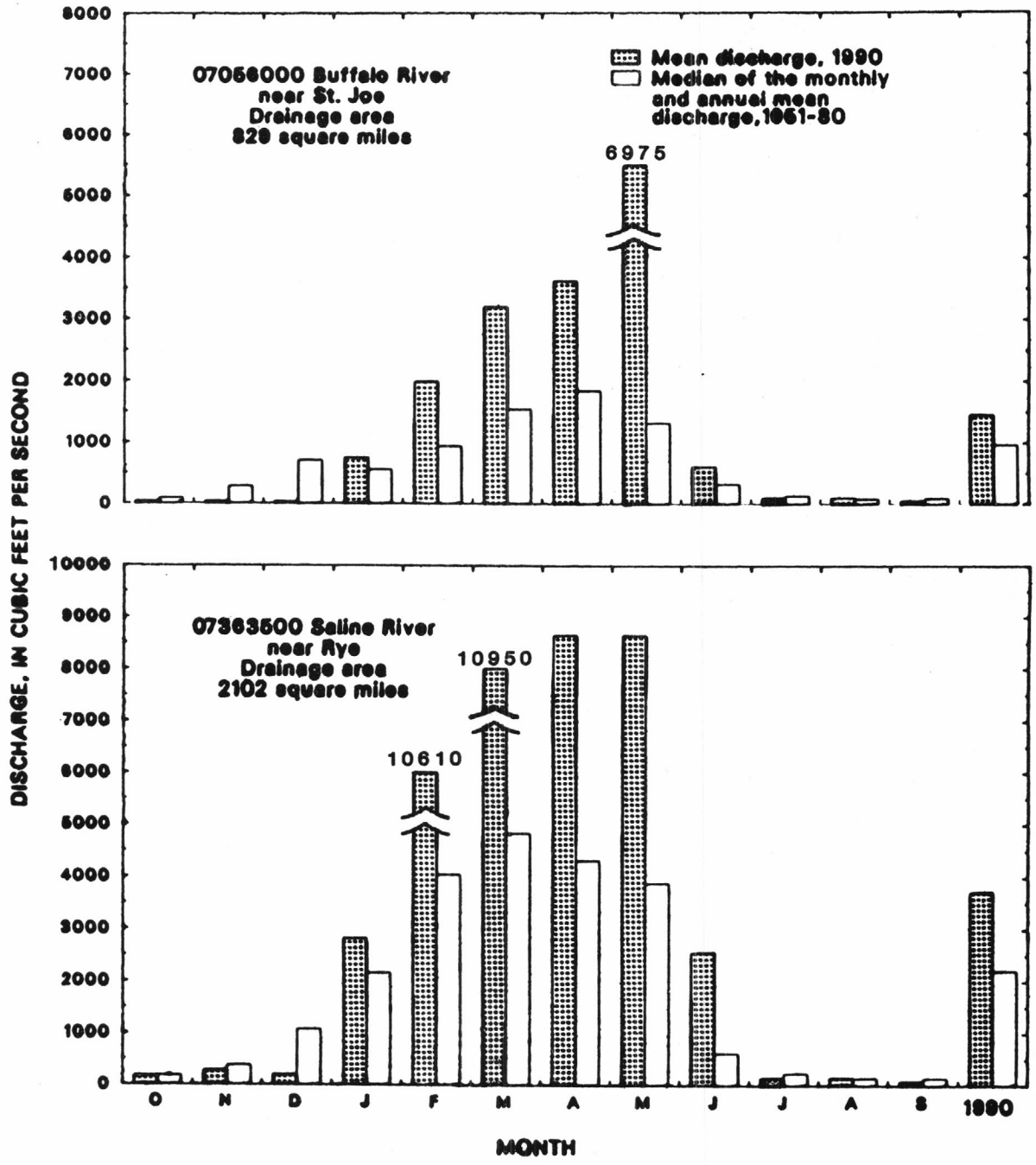


Figure 1.--Comparison of discharge at two representative long-term gaging stations for the 1990 water year with the median of the monthly and annual mean discharges for a 30-year base period.

The highest dissolved-solids concentration found in the major streams in 1990 was 724 mg/L in the Red River at Index. This concentration is considered normal for this station. Dissolved-solids concentrations, in milligrams per liter, are presented for selected stream sampling sites in the following table:

	1990		Period of Record through 1989	
	Minimum	Maximum	Minimum	Maximum
Mississippi River at Memphis, Tennessee	155	252	136	339
St. Francis Bay at Riverfront	105	218	55	314
White River at Newport	129	195	78	388
Cache River at Patterson	--	--	41	242
Arkansas River at David D. Terry Lock and Dam below Little Rock (includes data for Arkansas River at Little Rock prior to Lock and Dam construction)	182	442	86	2,400
Red River at Index	222	724	157	1,260
Ouachita River at Camden	42	71	30	193

The highest dissolved-chloride concentration found in the major streams in 1990 was 190 mg/L in the Red River at Index. The Cache River at Patterson had a dissolved-chloride concentration that was below the minimum for the previous period of record. Dissolved-chloride concentrations, in milligrams per liter, are presented in the following table:

	1990		Period of Record through 1989	
	Minimum	Maximum	Minimum	Maximum
Mississippi River at Memphis, Tennessee	11	17	7.9	30
St. Francis Bay at Riverfront	4.1	9.8	.1	13
White River at Newport	2.3	10	.5	120
Cache River at Patterson	1.5	9.7	1.7	20
Arkansas River at David D. Terry Lock and Dam below Little Rock (includes data for Arkansas River at Little Rock prior to Lock and Dam construction)	38	150	11	1,200
Red River at Index	43	190	23	410
Ouachita River at Camden	3.8	11	3.1	79

The highest fecal-coliform concentration found in the major streams in 1990 was 8,200 colonies per 100 mL in the Cache River at Patterson, which exceeded the maximum concentration for this site for the previous period of record. Fecal-coliform concentrations, in colonies per 100 milliliters, are presented in the following table:

	1990		Period of record through 1989	
	Minimum	Maximum	Minimum	Maximum
Mississippi River at Memphis, Tennessee	63	520	10	20,000
St. Francis Bay at Riverfront	k10	300	e8	k4,600
White River at Newport	3	230	k2	k3,200
Cache River at Patterson	k166	k8,200	e5	3,400
Arkansas River at David D. Terry Lock and Dam below Little Rock (includes data for Arkansas River at Little Rock prior to Lock and Dam construction)	1	1,200	<1	k51,000
Red River at Index	k12	740	<3	k5,000
Ouachita River at Camden	15	83	<1	1,400

k Plate count outside ideal range.
e Estimated value.

The highest suspended-sediment concentration found in the major streams in 1990 was 1,120 mg/L in the Red River at Index. The White River at Newport had a suspended-sediment concentration that tied the minimum for the previous period of record. Suspended-sediment concentrations, in milligrams per liter, are presented in the following table:

	1990		Period of record through 1989	
	Minimum	Maximum	Minimum	Maximum
Mississippi River at Memphis, Tennessee	61	474	24	740
St. Francis Bay at Riverfront	7	472	21	959
White River at Newport	10	48	10	252
Cache River at Patterson	11	430	23	248
Arkansas River at David D. Terry Lock and Dam below Little Rock (includes data for Arkansas River at Little Rock prior to Lock and Dam construction)	4	164	2	644
Red River at Index	19	1,120	16	8,820
Ouachita River at Camden	15	39	6	639

Ground-Water Levels

Two principal aquifers, the aquifer in the Quaternary deposits, henceforth referred to as the alluvial aquifer, and the aquifer in the Sparta and Memphis Sands, henceforth referred to as the Sparta-Memphis aquifer, provide water for most of the irrigation, public and rural supplies and industrial uses for the State. Both aquifers occur within the Mississippi embayment which covers approximately the eastern one-third of the State. The Sparta-Memphis aquifer also occurs within the deposits of the West Gulf Coastal Plain in the south central part of the State. The alluvial aquifer provides most of the ground water used for irrigation and fish farming; whereas the Sparta-Memphis aquifer of Tertiary age provides most of the ground water for industry and public supply.

The regional potentiometric gradient in the alluvial aquifer is toward the south and southeast from an altitude of about 290 feet above sea level in the northeastern part of the State to about 90 feet in the southeastern part. The normal gradient of the water surface is interrupted in parts of Lonoke, Prairie, and Arkansas Counties where large withdrawals for irrigation have caused the formation of an elongated cone of depression with a northwest to southeast axis. A second cone of depression has developed west of Crowleys Ridge in Poinsett and Cross Counties where withdrawals for irrigation also occur. Water levels in the center of both cones are more than 100 feet below land surface. The deepest water level measured in the spring of 1990 was 116.21 feet below land surface, which occurred in Lonoke County. Comparison of the 1990 to 1991 water levels indicates an average decline of approximately 0.19 foot in the cones of depression. Elsewhere, water levels in the aquifer rose approximately 0.46 foot.

The regional potentiometric gradient in the Sparta-Memphis aquifer generally is southeastward except where affected by pumping. Three cones of depression, centered in Columbia, Union and Jefferson Counties, have resulted from relatively large withdrawals for industrial and public supplies in those areas. Large withdrawals in the Grand Prairie for irrigation resulted in a northeasterly elongation of the cone centered under Jefferson County. At the center of these cones, the water levels vary from about 290 feet to more than 450 feet below land surface. The deepest water level of 453.73 feet occurred near El Dorado in Union County. Water levels, on the average, declined about 1.2 feet in Union County from the previous year, and rose about 2.7 feet in Jefferson County. The average water level in Columbia County rose 0.4 foot from the previous year. A 3.0 foot average rise in water levels occurred in the Grand Prairie (Arkansas, Prairie, and Lonoke Counties) area. Elsewhere in the State, water levels in the Sparta-Memphis aquifer declined about 0.9 foot 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 inch/pound 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 used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gramnegative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35°C ± 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as a number of colonies per 100 mL of sample.

Fecal coliform bacteria are present in the intestines of 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 that 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 streptoccocal bacteria also are present in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as grampositive, cocci bacteria that are capable of growth in brain-heart infusion broth. These bacteria are also defined as all the organisms that produce red or pink colonies within 48 hours at 35°C ± 0.5°C on KF-streptococcus agar (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.

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

Cells/volume refers to the number of cells of any organism, which are counted by using a microscope and grid of 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-ft, 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 in dustrial 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 material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) The dissolved oxygen content of water in equilibrium with air is a function of atmospheric pressure and temperature and the 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 of some streams.

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 noncontributing 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 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 ($CaCO^3$.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the 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 expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams 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 milligrams per liter 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 3, page 19.

Table 1.--Factors for conversion of chemical constituents in milligrams 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^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO^{-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

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

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

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

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (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 throughout 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) determined fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

Classification	Size (mm)	Method of analyses
Clay.....	0.00035- 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

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

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

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

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 d/min. (disintegrations per minute).

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

Phytoplankton form the plant part of the plankton. They generally are 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 per milliliter 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 per milliliter of sample.

Zooplankton form 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 of 35 and 37, and the natural mixture has 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. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

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

Runoff in inches (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.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level of 1929."

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 feet 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-absorption-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. Water varies, in respect to sodium hazard, from that which can be used for irrigation on almost all soils to that which generally is 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 microsiemens 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 microsiemens). 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.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey 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 they are planimetered. All areas shown are those for the stage when the map was planimetered.

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

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

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

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

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

WRD is used as an abbreviation of "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

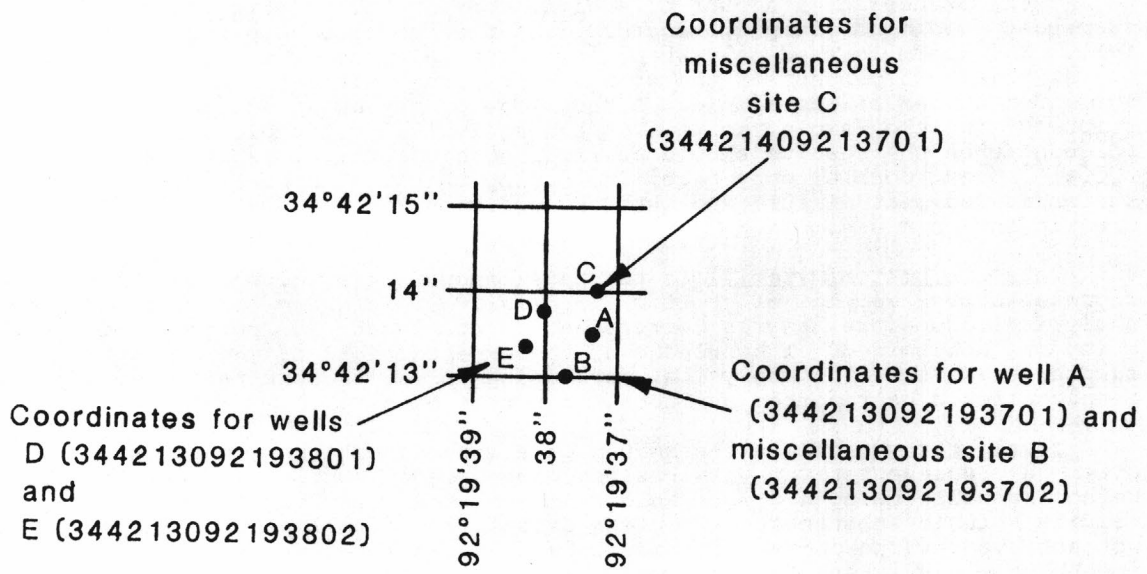
Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations of 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 the 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 numbers are in the same downstream order 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 downstream order number for each station, such as 07060710, which appears just to the left of the station name, includes the two-digit part number "07" plus the six-digit downstream-order number "060710." This six-digit number can be expanded to 12 digits if necessary because of station density.

NUMBERING SYSTEM FOR WELLS

Downstream-order station numbers are not assigned to wells.

The well numbering system of the Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15-digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the well within a 1-second grid. See diagram below.



SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National stream-quality accounting network (NASQAN) is a data-collection network designed by the 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 (identified by eight-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.

National trends network is a long-term monitoring network of the chemistry of wet deposition. Approximately 150 sites representing broad regional characteristics comprise the network.

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 that has been established to provide baseline information on the occurrence of tritium in the Nation's surface water. 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

Daily discharge records were computed and included in this report for 54 stations in Arkansas in 1990. The locations of these stations are shown in figures 2 and 3, pages 32 and 33.

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, observation 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 2175, 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 discharges 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 backwater from reservoirs, tributary streams, or other sources. Backwater 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.

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 year.

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-discharge 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 computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but it 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 ft^3/s; to tenths, between 1.0 and 10 ft^3/s; to whole numbers, between 10 and 1,000 ft^3/s; and to three significant figures, above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to the discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff, because of the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoir, 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.

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. Periods of no gage-height record occur 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.

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

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the periods for which there are published records for the existent station or for stations generally equivalent to the existent one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error from 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. 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 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 "National Geodetic Vertical Datum of 1929" as used by the National Mapping Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions that affect the natural flow of the gaging station 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 is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder, 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, 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 peaks are subject to substantial control by man. Time of day is expressed in 24-hour local 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.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. The water-quality records are given immediately after the water-discharge records for these stations. One hundred and sixty stations are included for 1990. The location of these stations are shown in figures 4 and 5, pages 34 and 35.

The descriptive heading for surface-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.

Numerical codes have been assigned for agencies collecting and analyzing samples, and are listed in the water-quality tables of this report as follows:

300	National Atmospheric Deposition Program/National Trends Network
810	Corps of Engineers, U.S. Army
9827	Arkansas Department of Pollution Control and Ecology
1028	U.S. Geological Survey
80513	Arkansas District, WRD, USGS
80020	National Water-Quality Laboratory, WRD, USGS
17003	Illinois State Water Survey
81213	District Water-Quality Laboratory, Ocala, Florida
80501	Ouachita Baptist University, Arkadelphia, Arkansas

The column heading "SAMPLE SOURCE" in the water-quality tables of this report designates the location from which the sample was taken. In this report, two locations are shown; location of the main channel is designated by a 67 sample-source code, and the location of the overbank is designated by a 68 sample-source code.

REVISIONS--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. In March 1990 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1990. Sulfate values in this report have not been corrected for this bias. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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 pages 21 and 22.

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.

Water-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent, as much as possible, the water-quality conditions at the time of sampling, consistent with available sampling techniques and methods of analyses. 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 the time of a measurement of pH in the field and the determination of carbonate and bicarbonate in the laboratory. Some bacterial concentrations, because of the method of analysis, will be preceded by the symbol "k." The "k" replaces the "B" used in previous data reports. Both symbols mean "Plate count outside ideal range."

Water temperature

Water temperatures are measured at most 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 about the same time each day. Large streams have a small daily 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 2.--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	105
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	46	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 section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be 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 the discharge multiplied by mean concentration multiplied by 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.

Table 3.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*

[All values calculated to three 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	619-623	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.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of the Data

The ground-water-level 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 productive aquifers.

Data are included for 98 wells in Arkansas (fig. 6, page 555). Thirteen of the wells are equipped with automatic digital recorders and the rest are measured manually one or more times each year. The wells selected are located so as to provide areal coverage of data-collection points for the most productive aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See diagram on page 12.

Measurements are made in many types of wells and under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized, it is determined by conditions at 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 National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum is the datum plane on which the national network of precise levels is based. Land-surface datum is the elevation of the land surface, with respect to National Geodetic Vertical Datum, at each well. If known, the elevation 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).

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.

EXPLANATION OF GROUND-WATER QUALITY RECORDS

Collection of the data

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only be considering records for this year in context with similar records obtained for these and other counties in earlier years.

In an attempt to detect long-term changes in ground-water quality, a network of 25 monitoring wells has been established. The monitoring wells were selected to use for sampling ground water from all major aquifers. Two or more wells are sampled from large aquifers such as those in the Quaternary alluvium and Sparta Sand. Water samples are collected from all monitoring wells at 5-year intervals. Sampling schedules are staggered so that five or six wells are usually sampled each year. In 1990, five wells in the network were sampled. Chemical analyses for these wells are located in the "Quality of Ground Water" section immediately following the ground-water-level records.

EXPLANATION OF PRECIPITATION-QUALITY RECORDS

Collection of the data

The precipitation-quality records in this report are for one site operated by the U.S. Geological Survey in the National Trends Network. Field measurements of pH and specific conductance of weekly composite precipitation samples and daily precipitation quantity are made. Other chemical analyses for all National Trends Network sites are performed by the Central Analytical Laboratory of the Illinois Water Survey. A numerical agency code (17003) has been assigned to the Illinois Water Survey for data storage purposes.

ACCESS TO WATSTORE DATA

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

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

General inquiries about WATSTORE may be directed to:

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

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

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

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

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

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.

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

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

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

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

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

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

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

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.

3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.

3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.

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

3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow*, by Richard L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.

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

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.

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

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

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

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

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

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

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.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. J. Fishman and L. C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.

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

5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

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

6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffrannek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

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

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

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.

DISCONTINUED GAGING STATIONS

The following continuous-record streamflow stations in Arkansas have been discontinued or converted to partial-record stations. Daily streamflow records were collected and published for the period of record shown for each station.

Station Number	Station name	Drainage area (mi^2)	Period of record
	St. Francis River Basin		
07047000	St. Francis River floodway near Marked Tree (Dam), Arkansas	4,644	1934-65
07047500	St. Francis River at Marked Tree, Arkansas	5,148	1934-73
07047810	St. Francis River floodway near Marked Tree, Arkansas	4,651	1965-70
	White River Basin		
07048000	West Fork White River at Greenland, Arkansas	83.10	1945-83
07048500	West Fork White River near Fayetteville, Arkansas	118	1937-45
*07049000	War Eagle Creek near Hindsville, Arkansas	263	1952-79
07049500	White River near Rogers, Arkansas	1,020	1952-63
07050500	Kings River near Berryville, Arkansas	527	1939-75
*07055000	White River near Flippin, Arkansas	6,081	1928-80
07057000	Buffalo River near Rush, Arkansas	1,096	1928-70
07057250	White River at Shipps Ferry, Arkansas	8,007	1963-64
07068890	Fourche River above Pocahontas	229	1964-70
*07069000	Black River at Pocahontas, Arkansas	4,845	1936-70
07073000	Strawberry River near Evening Shade, Arkansas	217	1939-79
*07073500	Piney Fork at Evening Shade, Arkansas	99.20	1939-84
*07075000	Middle Fork of Little Red River at Shirley, Arkansas	302	1939-84
*07076000	Little Red River near Heber Springs, Arkansas	1,153	1927-80
07076850	Cypress Bayou near Beebe, Arkansas	166	1961-76
07077930	Big Creek near Moro, Arkansas	77.40	1961-70
07078000	LaGrue Bayou near Stuttgart, Arkansas	176	1935-54
	Arkansas River Basin		
07194760	Illinois River near Viney Grove, Arkansas	80.7	1986
07194800	Illinois River at Savoy, Arkansas	167	1980-81, 1986
07195000	Osage Creek near Elm Springs, Arkansas	130	1950-75
07195400	Illinois River near Siloam Springs, Arkansas	509	1980-81, 1986
*07249500	Cove Creek near Lee Creek, Arkansas	35.30	1950-70
*07251000	Frog Bayou near Mountainburg, Arkansas	74.20	1936-61
*07251500	Frog Bayou at Rudy, Arkansas	216	1950-70
07252500	Sixmile Creek Subwatershed No. 6 near Chismville, Arkansas	4.23	1960-70
07253000	Sixmile Creek at Chismville, Arkansas	24.10	1954-70
07253500	Sixmile Creek near Branch, Arkansas	36.70	1954-70
07254000	Sixmile Creek Subwatershed No. 5 near Chismville, Arkansas	2.76	1960-70

* Converted to a partial-record station.

DISCONTINUED GAGING STATIONS--CONTINUED

Station Number	Station name	Drainage area (mi^2)	Period of record
	Arkansas River Basin--Continued		
07254500	Sixmile Creek Subwatershed No. 2 near Caulksville, Arkansas	5.81	1960-70
07255000	Sixmile Creek at Caulksville, Arkansas	104	1954-70
07255100	Sixmile Creek near Subwatershed No. 23 near Branch, Arkansas	4.49	1960-70
07255500	Hurricane Creek near Branch, Arkansas	17.20	1954-70
07256000	Hurricane Creek near Caulksville, Arkansas	53	1954-70
*07256500	Spadra Creek at Clarksville, Arkansas	61.10	1952-70
07257500	Illinois Bayou near Scottsville, Arkansas	241	1948-70
*07258500	Petit Jean River near Booneville, Arkansas	241	1938-84
*07259500	Petit Jean River near Waveland, Arkansas	516	1939-80
*07260000	Dutch Creek at Waltreak, Arkansas	81.40	1945-75
*07262500	Fourche LaFave River near Nimrod, Arkansas	684	1936-80
07264500	Bayou Meto near Stuttgart, Arkansas	574	1935-54
07265000	Crooked Creek near Humphrey, Arkansas	79.20	1940-54
	Red River Basin		
*07339500	Rolling Fork near DeQueen, Arkansas	182	1948-80
*07340500	Cossatot River near DeQueen, Arkansas	360	1938-80
*07341000	Saline River near Dierks, Arkansas	121	1938-80
07349430	Bodcau Creek at Stamps, Arkansas	234	1958-70
07356500	South Fork Ouachita River at Mount Ida, Arkansas	64	1949-70
07358000	Ouachita River near Hot Springs, Arkansas	1,405	1922-30
07359700	Caddo River at Glenwood, Arkansas	201	1988
07361000	Little Missouri River near Murfreesboro, Arkansas	380	1928-31, 1937-77
*07362500	Moro Creek near Fordyce, Arkansas	240	1951-83
*07363000	Saline River at Benton, Arkansas	550	1950-79
*07363200	Saline River near Sheridan, Arkansas	1,123	1970-81
07364000	Saline River near Warren, Arkansas	2,476	1928-31, 1937-40
07365800	Cornie Bayou near Three Creeks, Arkansas	180	1956-87
07365900	Three Creeks near Three Creeks, Arkansas	50.30	1956-71

* Converted to a partial-record station.

DISCONTINUED WATER-QUALITY STATIONS

The following water-quality stations have been discontinued in Arkansas. Continuous daily records of water temperature or sediment and monthly or periodic samples of chemical quality were collected and published for the period of record shown for each station.

MISSISSIPPI RIVER MAIN STEM

Station number	Station name	Type of record	Period of record
07024181	Mississippi River at Huffman, Arkansas	Chem.	1974-83
07029150	Mississippi River at Barfield, Arkansas	Chem.	1974-83
07032010	Mississippi River at West Memphis, Arkansas	Chem.	1969-70
07047970	Mississippi River at Helena, Arkansas	Chem.	1972-74
07265455	Mississippi River near Greenville, Mississippi	Chem.	1973-74
	ST. FRANCIS RIVER BASIN		
07040350	Big Slough Ditch near Paragould, Arkansas	Chem., Sed.	1978-84
07040424	Locust Creek Dtich near Paragould, Arkansas	Chem., Sed.	1978-84
07040428	Eight Mile Ditch near Paragould, Arkansas	Chem., Sed.	1978-84
07040440	Thompson Creek near Lester, Arkansas	Chem., Sed.	1978-81
07040445	Big Bay Ditch near Lester, Arkansas	Chem., Sed.	1978-81
07040500	Cockle Burr Slough Ditch near Black Oak, Arkansas	Chem., Sed.	1978-79
07046500	Big Lake Outlet near Manila, Arkansas	Chem., Sed.	1972-83
07046535	Pemiscot Bayou near Yarbro, Arkansas	Chem.	1972-74
07047400	Pemiscot Bayou near Dell, Arkansas	Chem.	1974-83
07047500	St. Francis River at Marked Tree, Arkansas	Chem.	1946, 1950-55, 1966-73
07047560	Tyronza River near Dyess, Arkansas	Chem.	1977
07047570	Tyronza Bayou near Dyess, Arkansas	Chem.	1977
07047575	Tyronza River Ditch No. 40 near Chelford, Arkansas	Chem.	1977
07047585	Tyronza River Ditch No. 6 near Lepanto, Arkansas	Chem.	1977
07047590	Tyronza River near Spear Lake, Arkansas	Chem.	1977
07047700	Tyronza River near Twist, Arkansas	Chem.	1974-88
07047882	Straight Slough near Birdeye, Arkansas	Chem. Sed.	1977-84
07047936	L'Anguille River near Cherry Valley, Arkansas	Chem., Sed.	1981-84
07047950	L'Anguille River at Palestine, Arkansas	Chem., Sed.	1978-79, 1981-84
07047968	St. Francis River North of Helena, Arkansas	Chem.	1972-83
	WHITE RIVER BASIN		
07048000	West Fork White River at Greenland, Arkansas	Chem.	1946-54, 1956-57, 1959,1963, 1976-79
07048600	White River near Fayetteville, Arkansas	Chem.	1958, 1976-81
07049000	War Eagle Creek near Hindsville, Arkansas	Chem.	1950-53
07049695	White River above Busch, Arkansas	Chem., Temp.	1969, 1972-82

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	WHITE RIVER BASIN--CONTINUED		
07050000	White River at Beaver, Arkansas	Chem.	1945-46, 1948-53, 1974-83
07055000	White River near Flippin, Arkansas	Chem.	1945-50, 1953,1979
07055500	White River at Cotter, Arkansas	Chem.	1947-59, 1966-82
07055550	Crooked Creek Tributary near Dog Patch, Arkansas	Chem.	1947-59, 1966-82
07055600	Crooked Creek at Pyatt, Arkansas	Chem.	1963,1964, 1974-78
07055630	White River at Buffalo City, Arkansas	Temp.	1963-64
07055700	Little Buffalo River at Jasper, Arkansas	Temp.	1963-70
07056520	Bear Creek West of Marshall, Arkansas	Chem.	1983-86
07057000	Buffalo River near Rush, Arkansas	Chem.	1946-54, 1958-59, 1961,1963
07057246	White River near Lone Rock, Arkansas	Temp.	1979-82
07057250	White River at Shipps Ferry, Arkansas	Temp.	1963-64
07060010	North Fork River at Norfork, Arkansas	Chem., Temp.	1974-83
07060660	White River at Sylamore, Arkansas	Temp.	1967-82
07061000	White River at Batesville, Arkansas	Chem.	1983-86
07061094	White River near Salado, Arkansas	Chem.	1983-86
07064000	Black River near Corning, Arkansas	Chem.	1945-61, 1963, 1966-67, 1972-83
07068600	Little Black River at Success. Arkansas	Chem., Temp.	1965, 1980-86
07068867	Fourche River near Middlebrook, Arkansas	Chem.	1969-75
07069266	Spring River near Hardy, Arkansas	Chem.	1974-83
07069268	South Fork of Spring River near Moko, Arkansas	Chem.	1972-74
07069500	Spring River at Imboden, Arkansas	Chem.	1945-63, 1966-72, 1976-79
07072000	Eleven Point River near Ravenden Springs, Arkansas	Chem.	1945-60, 1963, 1966, 1972-79
07073000	Strawberry River near Evening Shade, Arkansas	Chem.	1946-57, 1979
07073500	Piney Fork at Evening Shade, Arkansas	Chem.	1959,1979
07074000	Strawberry River near Poughkeepsie	Chem.	1949-60, 1971,1972, 1979
07074490	Black River at Jacksonport, Arkansas	Chem.	1964, 1974-83
07074491	White River at Jacksonport, Arkansas	Chem.	1983-86

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	WHITE RIVER BASIN--CONTINUED		
07074595	Village Creek near Walnut Ridge, Arkansas	Chem.	1973-74, 1976-77
07074645	Lick Pond near Alicia, Arkansas	Chem.	1976-77
07074660	Village Creek near Swifton, Arkansas	Chem.	1973-74, 1976-77
07074665	Maple Ditch near Swifton, Arkansas	Chem.	1976-77
07074675	Swan Pond Ditch near Tuckerman, Arkansas	Chem.	1976-77
07074700	Village Creek near Newport, Arkansas	Chem.	1960-61, 1963-64, 1973-74, 1976-77
07074849	White River above Augusta, Arkansas	Temp.	1967-71
07074850	White River near Augusta, Arkansas	Chem.	1954,1979
07075000	Middle Fork of Little Red River at Shirley, Arkansas	Chem.	1954,1979
07076200	Little Red River near Wilburn, Arkansas	Chem., Temp.	1968-83
07076500	Little Red River at Pangburn, Arkansas	Temp.	1967-82
07076620	Little Red River near Searcy, Arkansas	Temp.	1967-82
07076634	Little Red River at Judsonia, Arkansas	Chem.	1975-83
07076640	Little Red River near West Point, Arkansas	Temp.	1967-72
07076750	White River at Georgetown, Arkansas	Temp.	1967-81
07076850	Cypress Bayou near Beebe, Arkansas	Chem.	1976-78
07077000	White River at DeValls Bluff, Arkansas	Chem., Temp.	1963-70
07077080	Little Cache River Ditch No. 1 near McDougal, Arkansas	Chem.	1973-75
07077380	Cache River at Egypt, Arkansas	Chem.	1963,1966, 1976-79
07077400	Cache River near Cash, Arkansas	Chem.	1974-83
07077600	Cache River at Brasfield, Arkansas	Chem.	1974-83
07077750	Bayou Deview near Brasfield, Arkansas	Chem.	1956-57, 1974-83
07077790	Cache River at 100 Yards Below Dredging, Arkansas	Chem.	1977-80
07077794	Cache River at Mouth near Clarendon, Arkansas	Chem.	1977-80
07077800	White River at Clarendon, Arkansas	Chem., Temp.	1948-67, 1970-86
07077950	Big Creek at Poplar Grove, Arkansas	Chem.	1972, 1976-79
07077952	Big Creek near Poplar Grove, Arkansas	Chem.	1970-73
07077960	Big Creek near Watkins Corner, Arkansas	Chem.	1974-83
07078120	Little LaGrue Bayou near Stuttgart, Arkansas	Chem.	1954-55
07078285	White River at Arkansas Post Canal near Nady, Arkansas	Chem.	1972-83
	ARKANSAS RIVER BASIN		
07195430	Illinois River South of Siloam Springs, Arkansas	Chem.	1972-81

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	ARKANSAS RIVER BASIN--CONTINUED		
07195800	Flint Creek at Springtown, Arkansas	Chem.	1975-79
07195850	Flint Creek North of Siloam Springs, Arkansas	Chem.	1972-81
07196950	Evansville Creek at Evansville, Arkansas	Chem.	1958-59
07247000	Poteau River at Cauthron, Arkansas	Chem.	1945-61, 1975-79
07247012	Poteau River South of Bates, Arkansas	Chem.	1972-83
07247903	Lee Creek near Natural Dam, Arkansas	Chem.	1972-74
07250000	Lee Creek near Van Buren, Arkansas	Chem.	1951-59, 1972-79
07252000	Mulberry River near Mulberry, Arkansas	Chem.	1947-59, 1975-79
07252400	Arkansas River at Ozark, Arkansas	Chem.	1962-63, 1965-66
07252500	Sixmile Creek Subwatershed near Chismville, Arkansas	Chem.	1959-67
07257000	Big Piney Creek near Dover, Arkansas	Chem.	1951-56
07257500	Illinois Bayou near Scottsville, Arkansas	Chem.	1971-72
07257995	Lake Dardanelle at Dardanelle, Arkansas	Chem.	1966-67
07260500	Petit Jean River at Danville, Arkansas	Chem.	1949-52, 1976-78
07260640	Petit Jean River near Centerville, Arkansas	Chem.	1974-83
07261000	Cadron Creek near Guy, Arkansas	Chem.	1976-78
07261235	East Fork Cadron Creek North of Conway, Arkansas	Chem.	1973
07261250	Cadron Creek West of Conway, Arkansas	Chem.	1955-56, 1973-83
07263000	South Fourche LaFave River near Hollis, Arkansas	Chem.	1953, 1978-79
07263010	Fourche LaFave River near Aplin, Arkansas	Chem.	1952-53
07263150	Fourche LaFave River near Bigelow, Arkansas	Chem.	1975-83
07263500	Arkansas River at Little Rock, Arkansas	Chem.	1946-69
07263650	Arkansas River at Pine Bluff, Arkansas	Chem.	1963
07263720	Arkansas River near Altheimer, Arkansas	Chem.	1954
07263750	Arkansas River at Lock and Dam 3 near Swan Lake, Arkansas	Chem.	1974-83
07264000	Bayou Meto near Lonoke, Arkansas	Chem.	1968-83
07264050	Bayou Two Prairie near Cabot, Arkansas	Chem.	1975-83
07264500	Bayou Meto near Stuttgart, Arkansas	Chem.	1950-52, 1973-74
07265280	Arkansas River at Pendleton, Arkansas	Chem.	1963
	RED RIVER Basin		
07339500	Rolling Fork near DeQueen, Arkansas	Temp.	1976-79
07339850	Rolling Fork near Horatio, Arkansas	Chem.	1974-83

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	RED RIVER BASIN--CONTINUED		
07340500	Cossastot River near DeQueen, Arkansas	Temp.	1976-79
07340520	Cossatot River near Lockesburg, Arkansas	Chem.	1974-83
07341000	Saline River near Dierks, Arkansas	Temp.	1975-79
07341200	Saline River near Lockesburg, Arkansas	Chem.	1974-83
07341500	Red River at Fulton, Arkansas	Chem., Temp.	1946-47, 1952-61, 1978-79
07342000	Red River at Garland, Arkansas	Chem.	1976
07344290	Days Creek South of Texarkana, Arkansas	Chem.	1973-74
07344340	Sulphur River near Fort Lynn, Arkansas	Chem.	1975-78
07348615	Bayou Dorcheat near Bussey, Arkansas	Chem.	1973-74
07348680	Crooked Creek at Arkansas-Louisiana State Line	Chem.	1973-74
07349445	Bodcau Creek near Taylor, Arkansas	Chem.	1952, 1973-74
07349453	Wheeler Creek near Arkana, Arkansas	Chem.	1973-74
07349455	Bear Creek near Arkana, Arkansas	Che.	1973
07349457	Dooley Creek near Arkansas-Louisiana State Line	Chem.	1973
07356150	Ouachita River near Washita, Arkansas	Chem.	1970-72
07356320	Irons Fork Creek near Fannie, Arkansas	Chem.	1970-78
07356500	South Fork Ouachita River at Mount Ida, Arkansas	Chem.	1970-72, 1978
07357500	Lake Ouachita near Hot Springs, Arkansas	Chem.	1970-78
07357501	Ouachita River at Blakely Mountain Dam near Hot Springs, Arkansas	Chem.	1970-83
07357503	Ouachita River at Mountain Pine, Arkansas	Temp.	1979-82
07358501	Ouachita River at Carpenter Dam near Hot Springs, Arkansas	Chem.	1974-86
07359900	DeGray Lake near Arkadelphia, Arkansas	Chem.	1950-52, 1976-78
07359910	Caddo River at DeGray Regulating Dam near Arkadelphia, Arkansas	Chem.	1976-78
07360000	Ouachita River at Arkadelphia, Arkansas	Chem.	1949-70
07360162	Ouachita River near Sparkman, Arkansas	Chem.	1974-83
07360182	Brushy Creek near Ouachita, Arkansas	Chem.	1978-81
07360250	Little Missouri River near Newhope, Arkansas	Chem.	1970-78
07360350	Self Creek near Daisy, Arkansas	Chem.	1970-72, 1976-78
07360500	Lake Greeson near Murfreesboro, Arkansas	Chem.	1970-72, 1976-78
07361500	Antoine River at Antoine, Arkansas	Chem.	1976-79
07361650	Terre Rouge Creek near Prescott, Arkansas	Chem.	1978-79
07361660	Little Missouri River near Whelen Springs, Arkansas	Chem.	1978

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	RED RIVER BASIN--CONTINUED		
07361805	Terre Noir Creek at Vaden, Arkansas	Chem.	1978-79
07362100	Smackover Creek near Smackover, Arkansas	Chem.	1950-52, 1976-81
07362200	Smackover Creek near Norphlet, Arkansas	Chem.	1959-60, 1962-68, 1970-72
07362390	Ouachita River at Calion, Arkansas	Chem.	1950-54
07362400	Ouachita River at Lock and Dam 8, near Calion, Arkansas	Chem.	1972-84
07362500	Moro Creek near Fordyce, Arkansas	Chem.	1952-55, 1976-77
07363000	Saline River at Benton, Arkansas	Chem.	1950-53, 1975-79
07363080	Saline River near Tull, Arkansas	Chem.	1974-75
07363300	Hurricane Creek near Sheridan, Arkansas	Chem.	1967-72, 1976-80
07363400	Hurricane Creek below Sheridan, Arkansas	Chem.	1950-55
07363500	Saline River near Rye, Arkansas	Chem.	1947-55, 1958-60, 1968-71, 1976-80
07364020	L'Aigle Creek at Hermitage, Arkansas	Chem.	1980
07364060	Bayou Lapile at Strong, Arkansas	Chem.	1952-55
07364080	Ouachita River near Felsenthal, Arkansas	Chem., Temp.	1950-67, 1971-81
07364088	Coffee Creek near Crossett, Arkansas	Chem.	1973-83
07364150	Bayou Bartholomew near McGehee, Arkansas	Chem.	1960-72, 1976-79
07365900	Three Creeks near Three Creeks, Arkansas	Chem.	1953-55, 1973-74
07366105	Little Cornie Bayou East of Junction City, Arkansas	Chem.	1973-74
07367666	Big Bayou near Jerome, Arkansas	Chem.	1974-81
07367695	LaFourche Bayou near Wilmot, Arkansas	Chem.	1973-74

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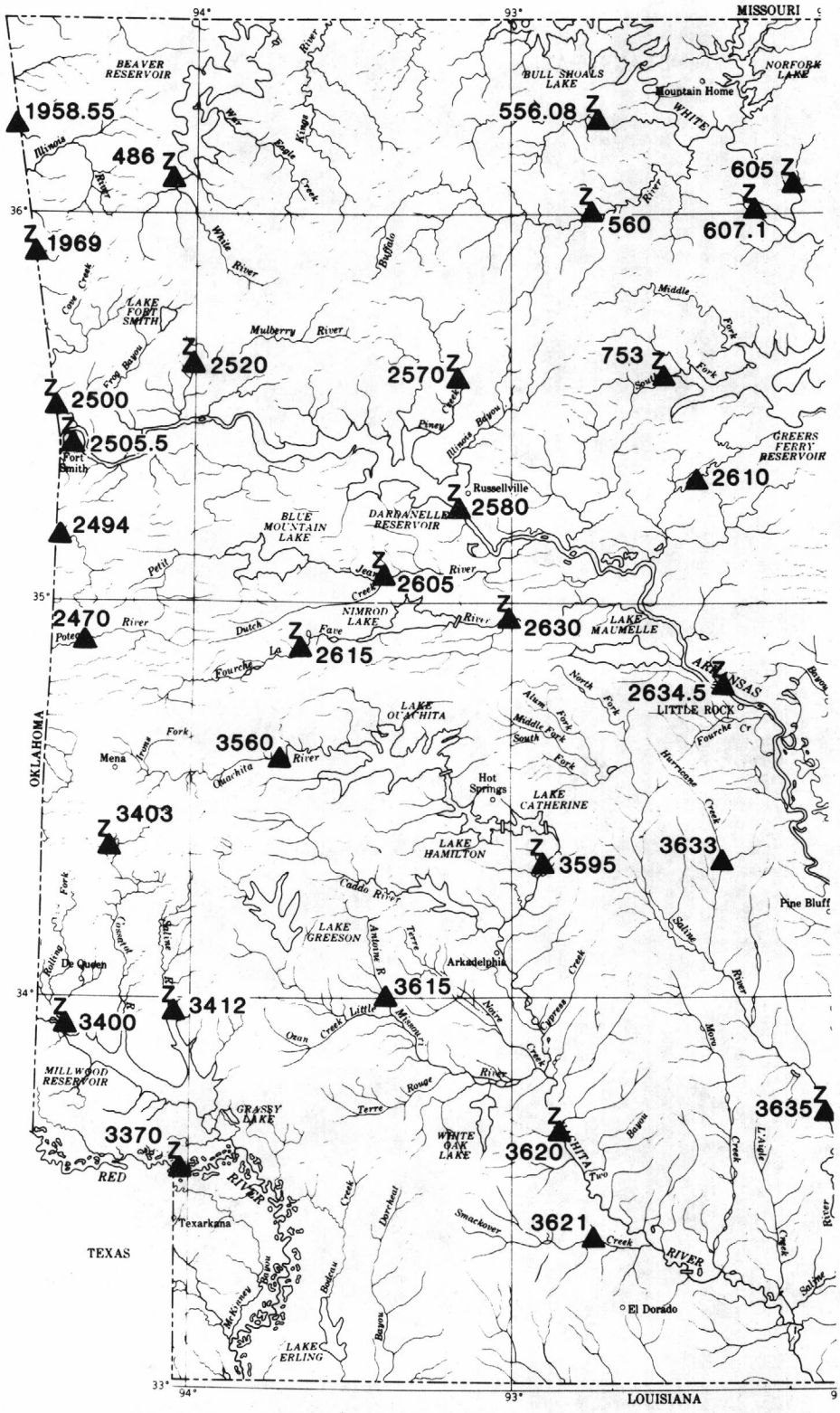


Figure 2.--Locations of continuous-record gaging stations in western Arkansas.

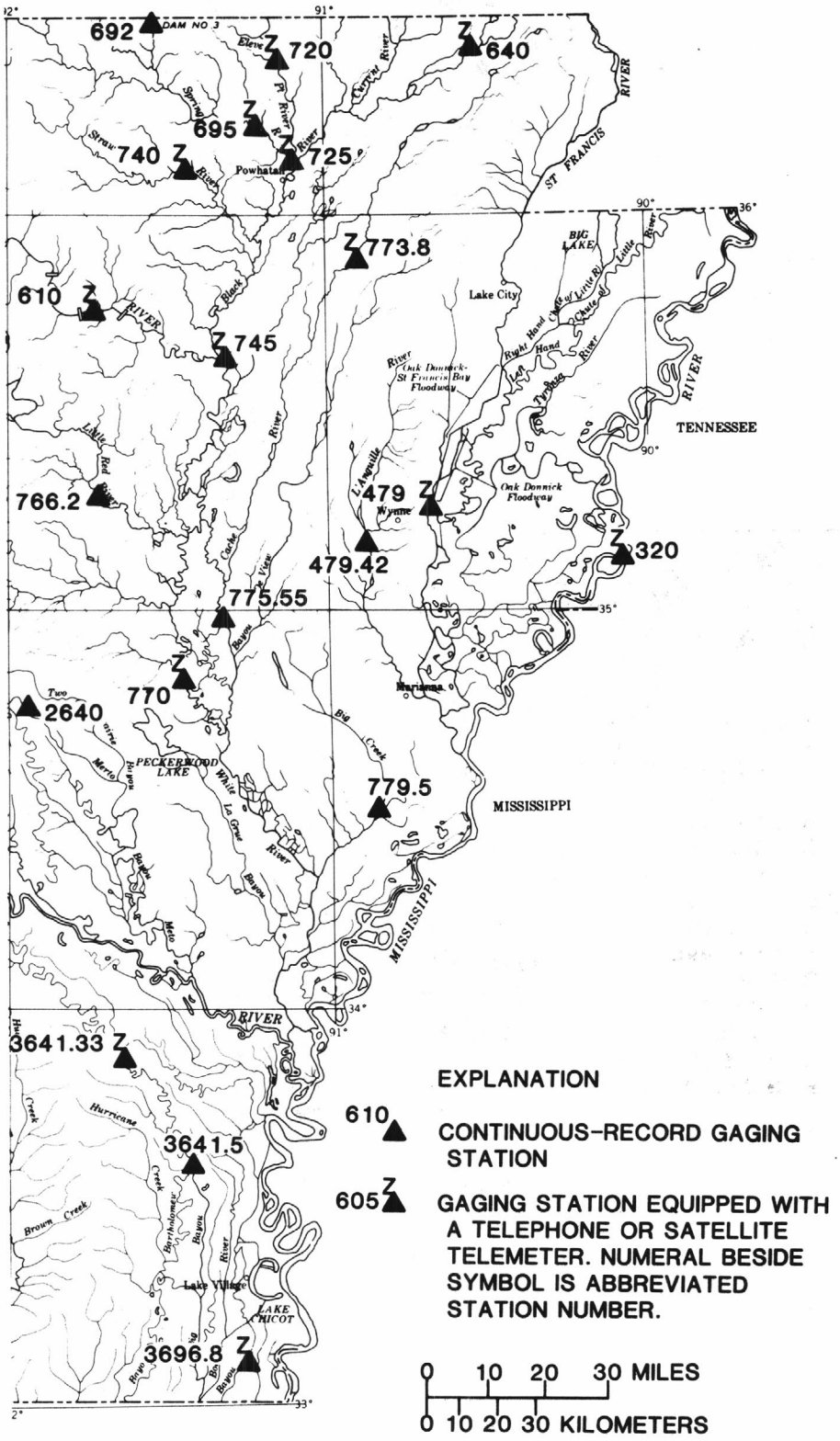


Figure 3.--Locations of continuous-record gaging stations in eastern Arkansas.

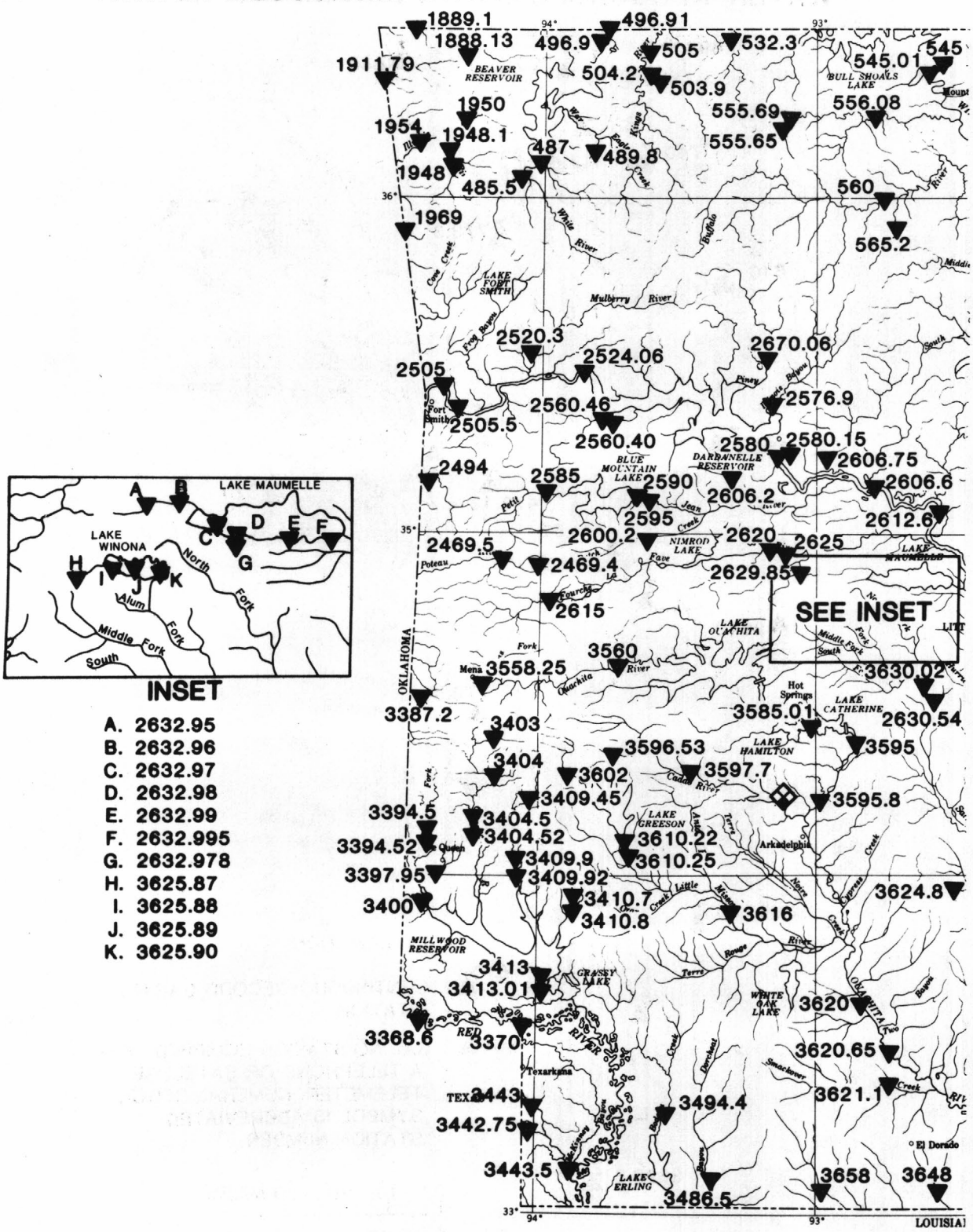


Figure 4.--Locations of water-quality stations in western Arkansas.

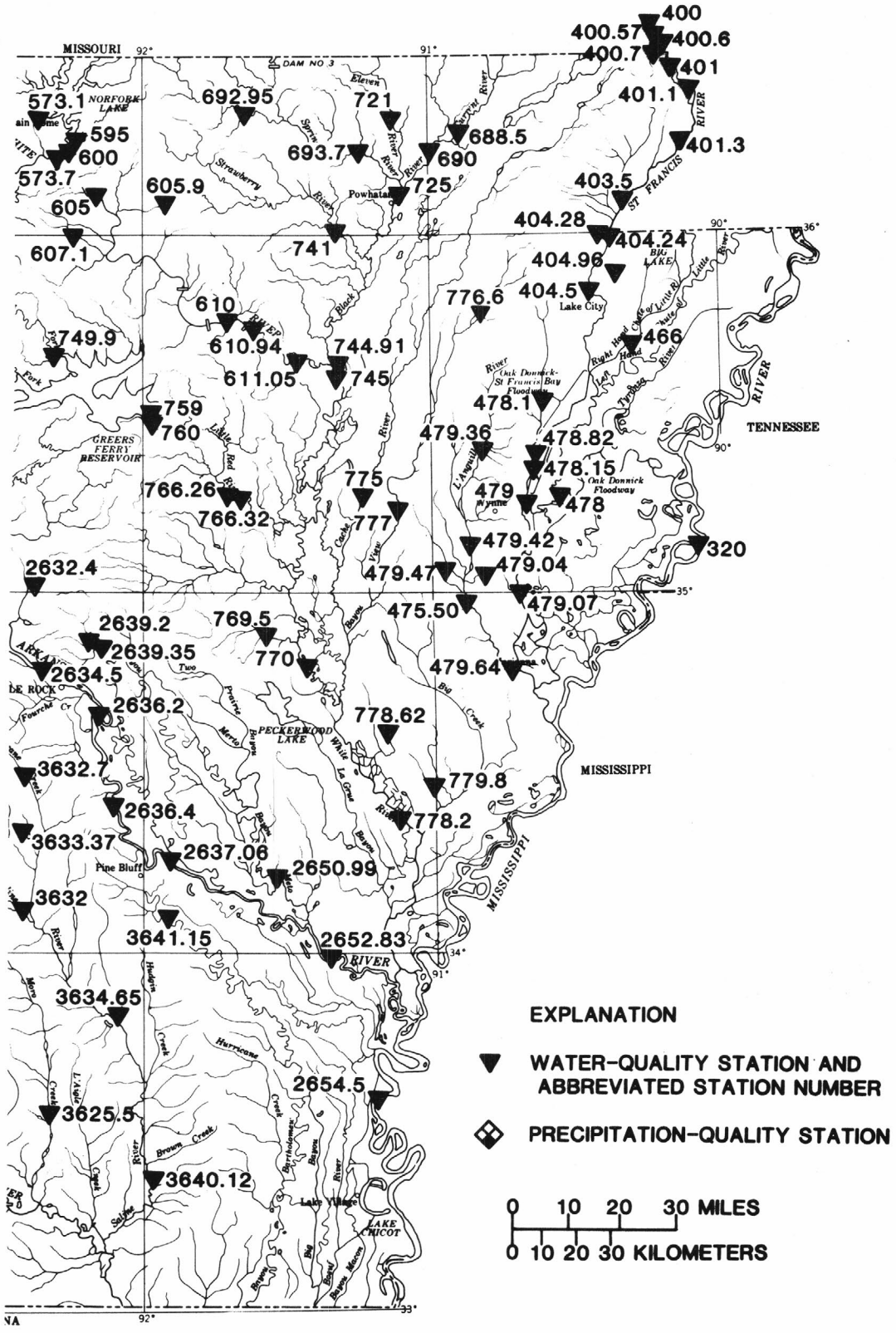


Figure 5.--Locations of water-quality stations in eastern Arkansas.

07032000 MISSISSIPPI RIVER AT MEMPHIS, TENNESSEE

(National stream-quality accounting network station)

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, Hydrologic Unit 08010100, on left bank 50 ft downstream from Harahan Bridge at Memphis, 1.3 mi downstream from Beale Street gage, 3.5 mi downstream from Wolf River, 62.4 mi upstream from St. Francis River, and at mile 734.8.

DRAINAGE AREA.--932,800 mi², 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 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 above National Geodetic Vertical Datum of 1929. Prior to Apr. 16, 1934, Beale Street nonrecording gage 1.3 mi upstream at present datum. Apr. 16 to Dec. 21, 1934, nonrecording gage 1,000 ft downstream at present datum.

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

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--57 years, 484,500 ft³/s, 351,000,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980,000 ft³/s Feb. 8, 1937; maximum gage height, 48.69 ft Feb. 10, 1937; minimum discharge, 79,200 ft³/s Aug. 26, 1936; minimum gage height, -10.70 ft July 10, 11, 1988.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170,000 ft³/s Feb. 24, gage height, 31.29 ft; minimum daily, 194,000 ft³/s Dec. 30; minimum gage height, -3.70 ft Dec. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453000	334000	380000	196000	601000	1120000	666000	539000	1110000	669000	452000	409000
2	428000	302000	371000	203000	621000	1100000	643000	517000	1110000	654000	422000	408000
3	407000	287000	366000	222000	664000	1070000	618000	497000	1100000	635000	406000	407000
4	399000	272000	364000	270000	715000	1010000	585000	482000	1100000	614000	409000	401000
5	414000	268000	362000	349000	766000	922000	557000	483000	1100000	592000	415000	392000
6	437000	274000	360000	443000	830000	814000	534000	496000	1100000	577000	406000	379000
7	446000	281000	352000	527000	885000	722000	503000	511000	1090000	560000	398000	368000
8	456000	298000	339000	611000	928000	683000	481000	541000	1080000	542000	395000	363000
9	462000	297000	322000	642000	963000	676000	464000	601000	1060000	524000	395000	366000
10	458000	295000	307000	658000	992000	645000	452000	655000	1040000	514000	402000	362000
11	443000	289000	301000	661000	1000000	609000	439000	685000	1010000	510000	410000	352000
12	423000	290000	301000	648000	1010000	592000	433000	685000	979000	511000	413000	350000
13	397000	300000	298000	619000	1020000	580000	444000	664000	947000	507000	406000	352000
14	367000	316000	300000	580000	1020000	572000	466000	633000	908000	504000	389000	341000
15	337000	329000	303000	537000	1030000	585000	487000	611000	869000	509000	375000	321000
16	317000	335000	303000	504000	1050000	607000	507000	604000	832000	516000	364000	307000
17	314000	336000	297000	485000	1070000	623000	525000	618000	794000	521000	352000	303000
18	299000	336000	287000	471000	1080000	654000	552000	660000	743000	533000	340000	300000
19	289000	350000	278000	445000	1100000	723000	564000	743000	688000	555000	334000	293000
20	291000	381000	270000	418000	1120000	796000	573000	850000	651000	574000	326000	288000
21	306000	410000	254000	403000	1140000	852000	573000	933000	649000	582000	318000	283000
22	331000	448000	232000	428000	1150000	888000	556000	990000	670000	587000	316000	281000
23	371000	485000	219000	483000	1160000	917000	532000	1040000	676000	587000	323000	285000
24	417000	507000	215000	539000	1150000	925000	514000	1070000	674000	577000	341000	287000
25	471000	510000	209000	585000	1140000	923000	516000	1100000	673000	561000	365000	281000
26	508000	495000	200000	614000	1130000	912000	527000	1120000	679000	543000	389000	273000
27	524000	469000	197000	625000	1130000	886000	535000	1120000	682000	534000	411000	268000
28	514000	437000	196000	627000	1120000	841000	552000	1120000	688000	533000	423000	268000
29	478000	413000	197000	634000	---	778000	566000	1120000	689000	527000	428000	267000
30	423000	397000	194000	630000	---	722000	560000	1120000	680000	510000	429000	264000
31	376000	---	195000	615000	---	691000	---	1110000	---	484000	423000	---
TOTAL	12556000	10741000	8769000	15672000	27585000	24438000	15924000	23918000	26071000	17146000	11975000	9819000
MEAN	405000	358000	282900	505500	985200	788300	530800	771500	869000	553100	386300	327300
MAX	524000	510000	380000	661000	1160000	1120000	666000	1120000	1110000	669000	452000	409000
MIN	289000	268000	194000	196000	601000	572000	433000	482000	649000	484000	316000	264000
AC-FT	24900000	21300000	17390000	31090000	54710000	48470000	31590000	47440000	51710000	34010000	23750000	19480000

CAL YR 1989 TOTAL 201494000 MEAN 552000 MAX 1160000 MIN 186000 AC-FT .39966329E9
WTR YR 1990 TOTAL 204614000 MEAN 560600 MAX 1160000 MIN 194000 AC-FT .40585184E9

07032000 MISSISSIPPI RIVER AT MEMPHIS, TENN.--CONTINUED

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.10	5.90	7.40	-3.40	16.50	31.10	18.30	14.70	30.20	18.40	11.30	8.30
2	10.10	4.30	6.70	-2.90	17.10	30.60	17.60	13.90	30.20	18.10	9.90	8.10
3	9.10	3.10	6.30	-1.90	18.10	29.90	16.80	13.10	30.40	17.60	9.00	8.20
4	8.50	1.90	6.10	.70	19.70	28.70	15.70	12.30	30.80	17.00	9.00	7.90
5	9.00	1.20	5.80	4.40	21.00	26.60	14.80	12.30	30.70	16.30	9.40	7.50
6	10.20	1.20	5.60	8.60	22.70	23.90	14.10	12.60	30.60	15.90	9.10	7.00
7	10.50	1.50	5.10	11.50	24.10	21.20	13.10	13.20	30.40	15.50	8.60	6.60
8	10.90	2.30	4.20	14.40	25.20	19.50	12.10	14.00	30.10	14.90	8.40	6.20
9	11.20	2.30	3.40	15.50	26.10	19.10	11.40	16.10	29.50	14.40	8.30	6.30
10	11.10	2.40	2.50	16.30	26.90	19.10	10.90	18.20	29.00	13.90	8.50	6.30
11	10.60	2.10	1.80	16.60	27.30	16.90	10.50	19.40	28.30	13.60	8.80	5.80
12	9.90	2.10	1.70	16.50	27.50	16.20	10.10	19.70	27.60	13.50	9.00	5.60
13	8.60	2.80	1.50	15.70	27.80	15.70	10.60	19.10	26.90	13.30	8.80	5.90
14	7.10	3.80	1.60	14.60	27.90	15.20	11.40	18.20	26.00	12.90	7.80	5.50
15	5.60	4.70	1.90	13.20	28.10	15.30	12.10	17.20	25.10	13.00	7.20	4.50
16	4.40	5.30	2.00	12.20	28.90	16.10	12.60	16.80	24.30	13.10	6.60	3.60
17	4.30	5.60	1.80	11.60	29.10	16.60	13.20	17.10	23.40	13.20	5.90	3.40
18	3.50	5.80	1.20	11.20	29.30	17.20	14.30	18.10	22.10	13.40	5.30	3.40
19	2.80	6.50	.60	10.00	29.80	19.30	14.80	20.40	20.50	14.00	5.10	3.00
20	2.60	8.10	.20	8.80	30.20	21.40	15.30	23.40	19.30	14.60	4.80	2.80
21	3.50	9.80	-.40	7.90	30.60	22.90	15.40	25.40	18.80	14.80	4.40	2.50
22	4.70	11.30	-1.90	8.60	31.00	23.80	15.20	26.90	19.30	14.90	4.30	2.30
23	6.50	12.80	e-2.70	11.10	31.20	24.50	14.30	28.10	19.20	14.80	4.60	2.60
24	8.60	13.50	e-2.80	13.40	31.30	24.80	13.60	29.10	18.90	14.60	5.60	2.80
25	11.20	13.70	-2.80	15.20	31.20	24.90	13.60	29.80	18.50	14.30	6.60	2.50
26	12.50	13.00	-3.40	16.30	31.10	24.70	14.00	30.20	18.40	13.70	7.50	2.10
27	13.30	12.20	-3.50	16.90	31.10	24.20	14.30	30.30	18.40	13.50	8.30	1.80
28	13.30	10.60	-3.30	17.30	31.10	23.20	14.90	30.30	18.70	13.60	8.90	1.80
29	12.20	9.40	-3.30	17.70	---	21.60	15.50	30.30	18.90	13.60	9.20	1.90
30	10.20	8.60	-3.70	17.60	---	20.10	15.40	30.20	18.70	13.30	9.20	1.80
31	8.00	---	-3.60	17.20	---	19.00	---	30.20	---	12.40	9.00	---

e Estimated

07032000 MISSISSIPPI RIVER AT MEMPHIS, TENNESSEE--CONTINUED

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD--
SPECIFIC CONDUCTANCE: February 1973 to September 1981.
WATER TEMPERATURES: February 1973 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT											
18...	1145	80513	80513	296000	335	7.8	19.0	23	8.0	86	765
FEB											
21...	0900	80513	80513	1150000	255	7.5	9.0	63	10.1	87	762
JUN											
18...	1330	80513	80020	808000	335	7.7	25.0	160	5.6	68	758
JUL											
23...	1230	80513	80020	547000	420	7.9	26.0	44	6.2	77	760

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
OCT										
18...	1145	170	1200	130	39	36	10	18	22	0.7
FEB										
21...	0900	63	460	110	37	30	7.4	8.5	15	0.4
JUN										
18...	1330	200	460	140	--	38	10	11	15	0.4
JUL										
23...	1230	520	80	170	48	45	14	16	17	0.5

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT										
18...	1145	3.1	90	0	112	92	52	13	0.20	5.1
FEB										
21...	0900	2.4	68	0	83	68	32	11	0.10	6.2
JUN										
18...	1330	3.3	97	0	122	100	41	9.5	0.30	6.4
JUL										
23...	1230	3.2	118	0	149	122	49	17	<0.10	7.7

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
18...	1145	207	196	165000	0.28	<0.010	0.640	0.040	0.020	0.46
FEB										
21...	0900	155	139	483000	0.21	--	--	--	--	--
JUN										
18...	1330	193	181	--	--	<0.010	2.00	0.060	0.030	0.44
JUL										
23...	1230	252	238	372000	0.34	<0.010	2.80	0.040	0.070	0.96

07032000 MISSISSIPPI RIVER AT MEMPHIS, TENNESSEE--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)
OCT 18...	1145	0.50	0.170	0.060	0.050	47	20	1	<0.5	<1.0
FEB 21...	0900	--	--	--	--	34	70	1	<0.5	<1.0
JUN 18...	1330	0.50	0.210	0.070	0.070	62	40	1	0.5	4.0
JUL 23...	1230	1.0	0.200	0.080	0.070	70	10	1	<0.5	4.0

DATE	TIME	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)
OCT 18...	1145	<1	<3	7	38	1	9	1	<0.1	<10
FEB 21...	0900	<5	<3	<10	65	<10	4	4	0.1	<10
JUN 18...	1330	<1	<3	14	16	<1	9	5	<0.1	<10
JUL 23...	1230	<1	<3	11	11	<1	10	<1	<0.1	<10

DATE	TIME	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 18...	1145	2	<1	<1.0	170	<6	28	61	48800	86
FEB 21...	0900	<10	<1	<1.0	120	<6	8	187	581000	64
JUN 18...	1330	2	1	1.0	140	6	73	474	1030000	91
JUL 23...	1230	3	<1	<1.0	190	<6	5	186	275000	96

07040000 ST. FRANCIS RIVER AT FISK, MISSOURI

LOCATION.--Lat 36°46'50", long 90°12'08", in NW ¼ SW ¼ sec.28, T.24 N., R.8 E., Butler-Stoddard County line, Hydrologic Unit 08020203, at bridge on U.S. Highway 60, at Fisk, Mo.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)
OCT 23...	1430	80513	80513	437	221	8.3	14.5	0.60
NOV 13...	1415	80513	80513	216	233	7.1	14.0	0.10
DEC 18...	1510	80513	80513	249	244	7.6	0.0	0.60
JAN 22...	1720	80513	80513	2840	256	8.1	7.0	0.40
FEB 12...	1600	80513	80513	3360	158	7.1	10.0	0.10
MAR 12...	1600	80513	80513	2130	158	7.9	13.0	0.30
APR 23...	1545	80513	80513	2150	145	8.0	15.5	0.50
MAY 21...	1610	80513	80513	8040	124	7.6	18.5	0.20
JUN 11...	1615	80513	80513	5170	118	7.5	22.0	0.30
JUL 16...	1130	80513	80513	125	161	6.9	28.0	0.30
AUG 14...	1400	80513	80513	664	197	7.3	24.5	0.40
SEP 24...	1300	80513	80513	77	225	7.8	20.0	0.70

DATE	TIME	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
OCT 23...	1430	10.2	100	759	27	32	95	95
NOV 13...	1415	9.5	93	756	45	26	92	96
DEC 18...	1510	14.0	96	761	27	18	96	98
JAN 22...	1720	11.8	99	752	92	705	84	91
FEB 12...	1600	11.8	106	753	58	526	87	93
MAR 12...	1600	10.6	101	757	54	311	81	86
APR 23...	1545	10.8	110	753	46	267	87	93
MAY 21...	1610	7.8	84	752	64	1390	72	78
JUN 11...	1615	6.8	79	755	41	572	92	96
JUL 16...	1130	7.6	97	760	74	25	91	91
AUG 14...	1400	6.2	75	757	105	188	86	86
SEP 24...	1300	7.5	83	760	71	15	87	87

07040000 ST. FRANCIS RIVER AT FISK, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
OCT								
23...	1430	96	100	5	7	69	96	100
NOV								
13...	1415	100	--	7	12	60	96	100
DEC								
18...	1510	98	100	14	24	80	97	100
JAN								
22...	1720	98	100	5	6	34	91	100
FEB								
12...	1600	100	--	5	7	57	94	100
MAR								
12...	1600	96	100	4	5	58	93	100
APR								
23...	1545	98	100	1	1	65	98	100
MAY								
21...	1610	94	100	2	2	79	99	100
JUN								
11...	1615	99	100	5	7	61	92	100
JUL								
16...	1130	95	100	12	15	74	96	100
AUG								
14...	1400	90	100	5	6	78	99	100
SEP								
24...	1300	95	100	11	12	66	92	100

07040060 ST. FRANCIS RIVER NEAR GLENNONVILLE, MISSOURI

LOCATION.--Lat 36°34'22", long 90°11'06", in NE ¼ NW ¼ sec.10, T.22 N., R.8 E., Butler-Dunklin County line, Hydrologic Unit 08020203, at bridge on Missouri State Highway 53, 1.7 mi southwest of Glennonville, Mo.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
NOV										
13...	1245	80513	80513	251	15.0	0.10	49	33	92	93
JAN										
23...	0845	80513	80513	3280	6.0	0.20	406	3600	86	90
FEB										
12...	1400	80513	80513	4190	9.5	0.10	189	2140	55	60
MAR										
12...	1500	80513	80513	2640	14.0	0.15	103	734	88	91
APR										
23...	1415	80513	80513	2230	18.0	0.30	112	674	78	82
MAY										
21...	1445	80513	80513	11000	19.0	0.10	523	15500	86	90
JUN										
11...	1440	80513	80513	5620	23.5	0.20	131	1990	81	88

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV									
13...	1245	97	100	--	4	5	56	99	100
JAN									
23...	0845	98	100	--	10	15	70	99	100
FEB									
12...	1400	95	100	--	0	0	72	99	100
MAR									
12...	1500	99	100	--	1	1	77	99	100
APR									
23...	1415	95	100	--	1	1	78	99	100
MAY									
21...	1445	93	99	100	5	5	83	99	100
JUN									
11...	1440	98	100	--	1	5	78	100	--

07040070 WILHELMINA CUTOFF NEAR CAMPBELL, MISSOURI

LOCATION.--Lat 36°30'53", long 90°09'30", in SW ¼ SW ¼ sec.25, T.22 N., R.8 E., Dunklin County, Hydrologic Unit 08020203, at bridge on county road 4.7 mi northwest of Campbell, Mo., off Missouri State Highway 53.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
NOV										
13...	1205	80513	80513	297	15.5	0.10	71	57	90	91
DEC										
18...	1340	80513	80513	196	0.0	0.50	25	13	97	98
JAN										
22...	1600	80513	80513	2680	6.5	0.20	230	1660	93	97
FEB										
12...	1310	80513	80513	4140	10.0	0.10	121	1350	93	96
MAR										
12...	1400	80513	80513	2640	14.0	0.15	312	2220	37	40
APR										
23...	1330	80513	80513	2110	18.0	0.30	151	860	65	68
MAY										
21...	1330	80513	80513	10100	19.0	0.10	801	21800	91	93
JUN										
11...	1400	80513	80513	5780	23.5	0.20	209	3260	56	62

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV									
13...	1205	100	--	--	2	3	74	98	100
DEC									
18...	1340	99	100	--	2	3	65	98	100
JAN									
22...	1600	99	100	--	64	66	75	87	100
FEB									
12...	1310	96	99	100	1	1	67	99	100
MAR									
12...	1400	81	99	100	1	2	64	99	100
APR									
23...	1330	95	100	--	1	1	67	98	100
MAY									
21...	1330	99	100	--	1	2	82	99	100
JUN									
11...	1400	96	100	--	1	2	83	99	100

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARKANSAS

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.

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

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: February 1985 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,990 mg/L July 19, 1988; minimum daily mean, 17 mg/L, December 5, 1989.
SEDIMENT LOADS: Maximum daily, 76,200 tons, February 14, 1989; minimum daily, 9.9 tons, November 22, December 1, 1986.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,430 mg/L, January 20; minimum daily mean, 17 mg/L, December 5.
SEDIMENT LOADS: Maximum daily, 37,100 tons, January 20; minimum daily, 12 tons, December 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)
OCT								
23...	1200	80513	80513	523	223	8.2	15.0	0.30
NOV								
14...	0730	80513	80513	282	245	8.0	15.0	0.10
JAN								
23...	1020	80513	80513	3410	237	8.0	6.0	0.20
FEB								
13...	0815	80513	80513	4360	140	7.3	9.5	0.10
MAR								
13...	0845	80513	80513	2680	166	7.4	14.5	0.15
APR								
24...	0830	80513	80513	2680	125	7.7	17.0	0.30
MAY								
22...	0800	80513	80513	9490	110	7.1	18.0	0.10
JUN								
12...	0745	80513	80513	5820	120	7.3	22.0	0.20
JUL								
16...	1330	80513	80513	257	285	7.0	24.0	1.00
AUG								
14...	1130	80513	80513	505	248	7.4	23.5	0.20
SEP								
24...	1500	80513	80513	271	285	7.7	20.0	0.30

DATE	TIME	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
OCT								
23...	1200	9.3	92	762	58	82	99	99
NOV								
14...	0730	8.7	87	753	75	57	95	98
JAN								
23...	1020	11.5	94	748	313	2880	93	95
FEB								
13...	0815	9.9	88	752	175	2060	72	79
MAR								
13...	0845	10.0	99	758	121	876	77	82
APR								
24...	0830	8.9	93	755	205	1480	87	93
MAY								
22...	0800	7.2	77	757	657	16800	65	78
JUN								
12...	0745	6.5	75	758	136	2140	90	94
JUL								
16...	1330	8.8	105	760	98	68	91	96
AUG								
14...	1130	7.0	83	759	153	209	95	95
SEP								
24...	1500	8.0	88	760	120	88	92	96

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
OCT								
23...	1200	100	--	32	46	98	99	100
NOV								
14...	0730	100	--	63	74	97	100	--
JAN								
23...	1020	100	--	2	3	93	99	100
FEB								
13...	0815	100	--	0	0	98	99	100
MAR								
13...	0845	99	100	1	2	85	99	100
APR								
24...	0830	99	100	2	2	97	100	--
MAY								
22...	0800	99	100	9	16	90	96	100
JUN								
12...	0745	99	100	0	1	93	100	--
JUL								
16...	1330	98	100	1	2	96	100	--
AUG								
14...	1130	97	100	3	4	97	99	100
SEP								
24...	1500	100	--	2	3	97	100	--

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	155	107	45	269	39	28	261	27	19
2	147	112	44	270	35	26	262	26	18
3	149	131	53	269	38	28	262	22	16
4	236	125	80	268	45	33	260	18	13
5	264	64	46	272	55	40	266	17	12
6	275	57	42	495	503	672	242	26	17
7	253	42	29	457	575	709	166	35	16
8	181	43	21	316	192	164	131	48	17
9	140	49	19	282	83	63	114	62	19
10	130	54	19	297	59	47	113	67	20
11	125	60	20	363	57	56	117	76	24
12	124	70	23	378	60	61	113	89	27
13	124	74	25	334	52	47	123	108	36
14	122	77	25	283	48	37	215	50	29
15	121	91	30	268	57	41	e250	26	18
16	146	268	106	263	40	28	e250	26	18
17	242	379	248	259	29	20	e245	26	17
18	194	156	82	308	25	21	e245	26	17
19	284	164	126	332	27	24	e245	26	17
20	788	305	649	257	36	25	e240	26	17
21	787	144	306	176	51	24	e240	26	17
22	623	100	168	138	47	18	e240	26	17
23	527	61	87	130	45	16	e235	26	16
24	454	56	69	206	46	26	e235	26	16
25	365	57	56	254	50	34	e235	26	16
26	294	50	40	268	65	47	e240	26	17
27	273	48	35	264	86	61	e240	26	17
28	267	49	35	268	78	56	e245	26	17
29	267	51	37	259	41	29	255	26	18
30	268	48	35	257	29	20	272	30	22
31	272	44	32	---	---	---	292	47	37
TOTAL	8597	---	2632	8460	---	2501	6849	---	597

e Estimated

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	303	42	34	4090	1430	15800	4940	126	1680
2	285	60	46	6990	1280	24200	4750	100	1280
3	277	55	41	7080	627	12000	4570	102	1260
4	343	100	93	6070	450	7380	4430	110	1320
5	417	138	155	5110	355	4900	4280	128	1480
6	462	144	180	4630	288	3600	4120	141	1570
7	499	74	100	4380	268	3170	3700	148	1480
8	505	50	68	4200	260	2950	3670	347	3440
9	502	46	62	4630	698	8730	3610	176	1720
10	443	40	48	6490	888	15600	3200	126	1090
11	404	35	38	5920	366	5850	2910	144	1130
12	423	57	65	4920	207	2750	2750	150	1110
13	1110	218	653	4330	186	2170	2700	126	919
14	1540	281	1170	4000	231	2490	2640	145	1030
15	1650	258	1150	6040	1450	23600	2960	191	1530
16	1660	195	874	10700	1060	30600	3080	191	1590
17	1660	186	834	8650	570	13300	2730	138	1020
18	1740	305	1430	6180	351	5860	2690	141	1020
19	1990	415	2230	4620	210	2620	2690	130	944
20	5660	2430	37100	4180	179	2020	2680	108	781
21	6020	789	12800	4220	190	2160	2620	105	743
22	4090	427	4720	4950	498	6660	2480	108	723
23	3430	389	3600	5760	420	6530	2360	123	784
24	3730	453	4560	5200	197	2770	2170	136	797
25	3930	430	4560	4810	174	2260	2170	129	756
26	3950	370	3950	4700	160	2030	1780	107	514
27	3910	316	3340	4680	159	2010	1670	91	410
28	3780	275	2810	4870	207	2720	1770	128	612
29	3890	280	2940	---	---	---	2920	738	5820
30	3740	196	1980	---	---	---	5390	950	13800
31	3070	253	2100	---	---	---	7070	569	10900
TOTAL	65413	---	93731	152400	---	216730	101500	---	63253

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	5030	257	3490	4170	174	1960	9590	355	9190
2	2660	248	1780	3830	309	3200	9720	357	9370
3	1900	207	1060	3610	482	4700	9440	343	8740
4	2030	145	795	3770	336	3420	8770	363	8600
5	2370	157	1000	2230	195	1170	8190	311	6880
6	2650	153	1090	1940	167	875	7910	248	5300
7	2790	136	1020	2750	172	1280	7540	243	4950
8	2990	126	1020	3030	134	1100	7120	215	4130
9	2730	107	789	3000	130	1050	6770	208	3800
10	3000	523	4240	2710	129	944	6330	205	3500
11	5230	616	8700	2580	124	864	6000	210	3400
12	3560	218	2100	2480	124	830	5800	197	3090
13	2130	153	880	2510	122	827	5640	186	2830
14	1700	134	615	2560	114	788	5520	201	3000
15	1560	108	455	2520	117	796	5420	205	3000
16	1500	98	397	2500	122	823	5320	207	2970
17	1600	128	553	3180	469	4030	5080	174	2390
18	1710	118	545	3840	312	3230	4720	186	2370
19	2000	118	637	4800	526	6820	4450	196	2350
20	1830	92	455	5950	513	8240	4270	208	2400
21	1660	108	484	7540	889	18100	4070	206	2260
22	1550	124	519	9470	590	15100	3800	212	2180
23	2050	143	792	9560	428	11000	3550	221	2120
24	2710	160	1170	9260	417	10400	3290	248	2200
25	3060	148	1220	8800	405	9620	2910	237	1860
26	3110	135	1130	8570	471	10900	2650	229	1640
27	3210	237	2050	9340	443	11200	2410	219	1430
28	5940	750	12000	9380	418	10600	2250	181	1100
29	7620	492	10100	9160	368	9100	2040	190	1050
30	6050	202	3300	9200	370	9190	1800	212	1030
31	---	---	---	9430	363	9240	---	---	---
TOTAL	87930	---	64386	163670	---	171397	162370	---	109130

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	1680	212	962	409	89	98	233	87	55
2	1540	193	802	412	84	93	235	92	58
3	1480	171	683	365	74	73	289	106	83
4	1370	156	577	339	102	93	283	106	81
5	1230	171	568	577	202	315	281	107	81
6	1120	177	535	440	257	305	266	98	70
7	1080	203	592	273	133	98	208	94	53
8	925	184	460	246	98	65	208	102	57
9	639	149	257	373	103	104	221	97	58
10	509	134	184	366	87	86	282	95	72
11	424	134	153	309	74	62	297	98	79
12	682	231	425	330	83	74	301	91	74
13	553	405	605	435	105	123	289	86	67
14	381	180	185	519	139	195	282	84	64
15	319	119	102	630	164	279	244	84	55
16	258	78	54	576	124	193	185	90	45
17	227	69	42	523	130	184	182	118	58
18	221	64	38	544	198	291	245	95	63
19	220	74	44	759	196	402	246	78	52
20	265	122	87	811	171	374	188	88	45
21	251	93	63	800	155	335	179	205	99
22	259	95	66	860	170	395	663	598	1070
23	457	191	236	966	180	469	488	262	345
24	295	161	128	821	141	313	287	109	84
25	278	144	108	603	124	202	219	103	61
26	569	192	295	448	109	132	252	104	71
27	641	177	306	357	89	86	414	105	117
28	565	144	220	326	83	73	364	74	73
29	483	91	119	321	73	63	296	71	57
30	430	88	102	327	81	72	275	72	53
31	404	88	96	294	81	64	---	---	---
TOTAL	19755	---	9094	15359	---	5711	8402	---	3300
YEAR	800705		742462						

07040110 ST. FRANCIS RIVER NEAR PIGGOTT, ARKANSAS

LOCATION.--Lat 36°23'50", long 90°04'40", in SE ¼ SW ¼ sec.3, T.20 N., R.9 E., Clay County, Hydrologic Unit 08020203, at bridge on State Highway 1, 6.0 mi east of Piggott.

DRAINAGE AREA.--1,776 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)
NOV										
13...	1120	80513	80513	--	348	15.0	0.10	61	57	93
JAN										
22...	1330	80513	80513	67	3640	6.0	0.10	312	3070	85
22...	1400	80513	80513	68	580	6.5	0.10	316	495	95
FEB										
12...	1130	80513	80513	67	4240	10.0	0.10	198	2270	78
12...	1210	80513	80513	68	842	10.0	0.10	125	284	99
MAR										
12...	1300	80513	80513	--	2810	14.0	0.15	164	1240	72
APR										
23...	1200	80513	80513	--	1780	18.0	0.30	122	586	91
MAY										
21...	1140	80513	80513	67	5040	19.0	0.20	358	4870	93
21...	1215	80513	80513	68	508	19.0	0.20	174	239	97
JUN										
11...	1150	80513	80513	67	4560	23.0	0.20	146	1800	93
11...	1220	80513	80513	68	1040	23.0	0.20	141	397	35

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV									
13...	1120	93	95	100	3	4	39	89	100
JAN									
22...	1330	89	98	100	1	1	10	76	100
22...	1400	97	99	100	82	95	98	99	100
FEB									
12...	1130	84	100	--	1	2	59	99	100
12...	1210	100	--	--	46	92	99	99	100
MAR									
12...	1300	78	99	100	1	1	63	98	100
APR									
23...	1200	95	98	100	1	1	52	96	100
MAY									
21...	1140	96	98	100	1	1	63	99	100
21...	1215	98	99	100	74	95	98	99	100
JUN									
11...	1150	97	99	100	1	2	60	93	100
11...	1220	35	64	100	60	92	96	97	100

07040130 ST. FRANCIS RIVER AT HOLLY ISLAND, ARKANSAS

LOCATION.--Lat 36°14'11", long 90°07'52", in SW ¼ NE ¼ sec.32, T.19 N., R.9 E., Clay County, Hydrologic Unit 08020203, at bridge on State Highway 90, at Holly Island.

DRAINAGE AREA.--1,788 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
NOV											
14...	0830	80513	80513	--	309	14.0	0.10	76	63	82	85
JAN											
23...	1400	80513	80513	67	2930	6.5	0.10	229	1810	92	92
23...	1430	80513	80513	68	984	6.5	0.10	205	545	98	99
FEB											
13...	1030	80513	80513	67	3840	11.0	0.10	196	2030	81	85
13...	1115	80513	80513	68	1650	11.0	0.10	129	575	95	96
MAR											
13...	1100	80513	80513	67	2510	15.0	0.15	123	834	91	93
13...	1130	80513	80513	68	107	15.0	0.15	95	27	96	96
APR											
24...	1045	80513	80513	--	2210	18.0	0.30	116	692	98	99
MAY											
22...	1105	80513	80513	67	4120	19.0	0.10	424	4720	87	91
22...	1130	80513	80513	68	2220	19.0	0.10	174	1040	93	95
JUN											
12...	0930	80513	80513	67	3840	23.5	0.20	126	1310	84	89
12...	1010	80513	80513	68	1820	23.5	0.20	451	2220	42	45

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)
NOV										
14...	0830	89	92	100	10	11	41	85	100	--
JAN										
23...	1400	97	100	--	1	2	52	93	100	--
23...	1430	100	--	--	80	95	99	100	--	--
FEB										
13...	1030	98	100	--	0	1	20	73	100	--
13...	1115	97	100	--	41	62	95	100	--	--
MAR										
13...	1100	96	98	100	1	1	35	96	100	--
13...	1130	98	100	--	6	15	47	92	100	--
APR										
24...	1045	99	100	--	1	1	21	75	96	100
MAY										
22...	1105	97	100	--	1	2	38	88	100	--
22...	1130	96	100	--	44	76	97	99	100	--
JUN										
12...	0930	98	100	--	1	1	67	90	100	--
12...	1010	71	100	--	3	13	65	92	100	--

07040450 ST. FRANCIS RIVER AT LAKE CITY, ARKANSAS

LOCATION.--Lat 35°49'16", long 90°25'56", in SE ¼ sec.22, T.14 N., R.6 E., Craighead County, Hydrologic Unit 08020203, at bridge on State Highway 18 at Lake City, and at mile 173.6.

DRAINAGE AREA.--2,374 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)
OCT									
24...	0815	80513	80513	--	635	258	7.8	14.0	0.20
NOV									
14...	1025	80513	80513	--	468	265	8.2	15.0	0.10
DEC									
19...	1130	80513	80513	--	286	329	8.0	0.0	0.50
JAN									
23...	1530	80513	80513	67	1380	111	7.1	7.0	0.20
23...	1600	80513	80513	68	2180	153	7.4	7.0	0.20
FEB									
13...	1400	80513	80513	67	1510	138	7.6	11.5	0.10
13...	1500	80513	80513	68	5640	139	7.4	11.0	0.10
MAR									
13...	1300	80513	80513	67	1130	182	7.3	17.0	0.15
13...	1330	80513	80513	68	3780	162	7.3	17.0	0.15
APR									
24...	1330	80513	80513	67	1430	206	7.5	22.0	0.30
24...	1400	80513	80513	68	2260	158	7.5	22.0	0.30
MAY									
22...	1420	80513	80513	67	1480	165	7.1	18.5	0.20
22...	1530	80513	80513	68	3550	147	7.3	18.5	0.20
JUN									
12...	1445	80513	80513	67	1910	115	7.0	25.0	0.20
12...	1530	80513	80513	68	6650	106	6.9	25.0	0.20
JUL									
17...	0730	80513	80513	--	737	268	7.5	23.0	0.20
AUG									
15...	0830	80513	80513	--	536	288	7.1	21.5	0.20
SEP									
25...	0735	80513	80513	--	346	280	7.8	19.0	0.60

DATE	TIME	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)
OCT									
24...	0815	8.6	83	764	73	125	98	98	99
NOV									
14...	1025	7.4	74	755	146	184	92	93	98
DEC									
19...	1130	12.9	88	766	34	26	94	95	96
JAN									
23...	1530	9.0	76	748	302	1130	54	63	94
23...	1600	9.1	76	748	120	706	92	92	96
FEB									
13...	1400	7.6	70	754	64	261	97	99	99
13...	1500	7.7	71	754	112	1710	63	78	93
MAR									
13...	1300	7.4	77	758	49	149	97	98	99
13...	1330	7.5	78	758	43	439	94	94	94
APR									
24...	1330	5.7	66	757	56	216	88	91	96
24...	1400	6.5	75	757	44	268	98	99	100
MAY									
22...	1420	5.8	62	760	115	460	89	90	95
22...	1530	6.3	67	760	116	1110	71	75	93
JUN									
12...	1445	5.7	69	758	50	258	63	69	85
12...	1530	5.4	66	758	166	2980	99	99	100
JUL									
17...	0730	5.4	63	763	132	263	92	95	96
AUG									
15...	0830	7.5	85	760	111	161	91	91	95
SEP									
25...	0735	7.3	79	758	109	102	94	94	96

07040450 ST. FRANCIS RIVER AT LAKE CITY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)
OCT									
24...	0815	100	--	23	34	78	97	100	--
NOV									
14...	1025	100	--	79	89	96	100	--	--
DEC									
19...	1130	100	--	16	16	78	97	100	--
JAN									
23...	1530	100	--	34	51	87	99	100	--
23...	1600	100	--	37	43	64	97	100	--
FEB									
13...	1400	100	--	6	11	71	96	100	--
13...	1500	100	--	5	15	70	97	100	--
MAR									
13...	1300	100	--	2	3	45	96	100	--
13...	1330	98	100	2	2	14	91	100	--
APR									
24...	1330	100	--	6	7	55	93	100	--
24...	1400	--	--	7	8	26	86	99	100
MAY									
22...	1420	98	100	2	2	27	94	100	--
22...	1530	100	--	3	4	33	94	100	--
JUN									
12...	1445	100	--	1	2	41	97	100	--
12...	1530	--	--	6	11	62	98	100	--
JUL									
17...	0730	97	100	3	4	66	94	100	--
AUG									
15...	0830	100	--	3	4	39	99	100	--
SEP									
25...	0735	100	--	2	4	54	98	100	--

07040496 COCKLE BURR SLOUGH DITCH NEAR MONETTE, ARKANSAS

LOCATION.--Lat 35°51'39", long 90°19'49", in SW ¼ SE ¼ sec.3, T.14 N., R.7 E., Craighead County, Hydrologic Unit 08020203, at bridge on county road south of State Highway 18, 2.1 mi southeast of Monette.

PERIOD OF RECORD.--May 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)
NOV 14...	1110	80513	80513	55	405	8.1	17.0	0.10
DEC 19...	1230	80513	80513	73	409	7.4	2.0	0.60
JAN 24...	0800	80513	80513	164	315	7.8	8.5	0.50
FEB 13...	1300	80513	80513	492	378	7.3	13.0	0.10
MAR 13...	1630	80513	80513	598	423	7.8	19.0	0.30
APR 24...	1230	80513	80513	640	399	7.7	21.0	0.50
MAY 22...	1340	80513	80513	604	325	7.4	18.0	0.20
JUN 12...	1200	80513	80513	303	76	6.8	24.0	0.20

DATE	TIME	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
NOV 14...	1110	7.4	77	754	154	23	94	98
DEC 19...	1230	11.4	82	766	42	8.2	97	98
JAN 24...	0800	10.5	91	752	97	43	99	99
FEB 13...	1300	8.6	82	755	185	246	83	89
MAR 13...	1630	8.7	95	757	51	82	98	100
APR 24...	1230	6.2	70	758	69	119	94	96
MAY 22...	1340	6.4	68	760	88	144	93	93
JUN 12...	1200	6.6	79	760	124	101	99	100

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV 14...	1110	99	100	13	29	84	98	100
DEC 19...	1230	99	100	32	44	88	98	100
JAN 24...	0800	100	--	34	47	86	99	100
FEB 13...	1300	98	100	47	51	72	90	100
MAR 13...	1630	--	--	71	85	92	98	100
APR 24...	1230	96	100	23	28	56	93	100
MAY 22...	1340	96	100	11	17	55	97	100
JUN 12...	1200	--	--	58	68	85	95	100

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE, ARKANSAS

LOCATION.--Lat 35°40'20", long 90°29'12", in SW ¼, sec.10, T.12 N., R.7 E., Poinsett County, Hydrologic Unit 08020204, at bridge on State Highway 135 at Rivervale, 9.0 mi upstream from St. Francis River.

DRAINAGE AREA.--2,106 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)
OCT 24...	1000	80513	80513	316	501	8.1	15.0	0.20
NOV 14...	1205	80513	80513	482	345	8.2	16.0	0.10
DEC 19...	1345	80513	80513	275	343	8.0	0.0	0.50
JAN 24...	0920	80513	80513	6590	155	7.4	6.5	0.10
FEB 14...	0815	80513	80513	6230	116	7.6	11.5	0.10
MAR 14...	0830	80513	80513	2100	305	7.6	18.0	0.15
APR 25...	0830	80513	80513	3170	281	7.6	22.0	0.10
MAY 23...	0800	80513	80513	5660	147	7.3	18.0	0.10
JUN 13...	0745	80513	80513	1710	157	7.1	27.0	0.20
JUL 17...	0915	80513	80513	971	362	7.2	25.0	0.20
AUG 15...	1030	80513	80513	405	472	7.6	27.0	0.10
SEP 25...	0945	80513	80513	136	400	8.0	21.0	0.20

DATE	TIME	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
OCT 24...	1000	10.3	102	765	46	39	88	96
NOV 14...	1205	9.2	94	754	69	90	98	98
DEC 19...	1345	13.6	93	764	25	19	98	99
JAN 24...	0920	10.6	87	752	418	7440	80	85
FEB 14...	0815	7.6	70	757	362	6090	98	99
MAR 14...	0830	7.6	81	752	108	612	100	--
APR 25...	0830	6.9	79	758	165	1410	99	99
MAY 23...	0800	6.5	69	759	1070	16400	98	99
JUN 13...	0745	6.7	85	758	70	323	99	99
JUL 17...	0915	7.8	94	763	94	246	93	94
AUG 15...	1030	7.3	92	760	108	118	91	91
SEP 25...	0945	7.9	89	760	82	30	92	95

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
OCT								
24...	1000	100	--	71	83	98	100	--
NOV								
14...	1205	99	100	27	30	96	99	100
DEC								
19...	1345	100	--	83	90	98	100	--
JAN								
24...	0920	99	100	23	24	98	99	100
FEB								
14...	0815	100	--	1	1	72	100	--
MAR								
14...	0830	--	--	40	47	74	98	100
APR								
25...	0830	100	--	3	23	97	100	--
MAY								
23...	0800	100	--	3	4	22	68	100
JUN								
13...	0745	100	--	13	19	87	98	100
JUL								
17...	0915	100	--	23	28	95	100	--
AUG								
15...	1030	93	100	28	31	93	99	100
SEP								
25...	0945	95	100	17	35	96	99	100

07047800 ST. FRANCIS RIVER AT PARKIN, ARKANSAS

(National stream-quality accounting network station)

NOTE.--Water-discharge records are not available for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°16'23", long 90°33'33", in NE ¼ SE ¼ 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 downstream from Tyronza River and at mile 102.0

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi².

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1973 to September 1981.
WATER TEMPERATURES: January 1973 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
NOV											
07...	1045	80513	80513	273	449	7.6	15.5	16	6.7	68	753
DEC											
12...	1240	80513	80513	207	458	8.1	3.0	7.2	11.0	82	760
FEB											
12...	1315	80513	80513	5370	125	8.0	11.0	580	9.0	82	760
APR											
17...	1130	80513	80020	1980	224	7.8	15.5	110	8.2	82	760
JUN											
26...	1245	80513	80020	2090	160	7.7	27.0	96	5.7	72	760
AUG											
27...	1210	80513	80020	280	472	7.8	30.0	34	6.8	90	760

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV											
07...	1045	220	880	220	21	61	17	10	9	0.3	3.5
DEC											
12...	1240	15	69	170	0	49	12	8.1	9	0.3	3.1
FEB											
12...	1315	1300	E53000	40	3	11	3.0	5.1	22	0.4	0.20
APR											
17...	1130	870	1300	120	12	33	8.5	6.1	10	0.2	2.4
JUN											
26...	1245	K210	500	140	6	41	10	8.1	11	0.3	2.7
AUG											
27...	1210	K140	310	210	0	57	16	11	10	0.3	2.8

DATE	TIME	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
NOV										
07...	1045	202	0	246	202	20	6.4	0.20	18	263
DEC										
12...	1240	226	--	276	226	21	5.6	0.20	13	279
FEB										
12...	1315	37	0	45	37	7.0	2.5	0.20	7.2	88
APR										
17...	1130	104	0	129	106	21	7.3	<0.10	11	153
JUN										
26...	1245	134	0	168	138	15	9.2	0.30	16	168
AUG										
27...	1210	220	0	268	220	22	6.5	0.70	18	281

07047800 ST. FRANCIS RIVER AT PARKIN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV										
07...	1045	257	194	0.36	--	<0.010	<0.100	0.020	<0.010	0.38
DEC										
12...	1240	249	156	0.38	--	<0.010	<0.100	0.010	0.020	0.39
FEB										
12...	1315	60	1280	0.12	0.320	0.010	0.330	0.270	0.020	0.83
APR										
17...	1130	156	818	0.21	0.480	0.020	0.500	0.110	0.070	0.79
JUN										
26...	1245	188	948	0.23	0.450	0.050	0.500	0.050	0.040	0.65
AUG										
27...	1210	267	212	0.38	--	<0.010	<0.100	0.030	<0.010	0.67

DATE	TIME	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV										
07...	1045	0.40	0.130	0.030	0.040	--	--	--	--	--
DEC										
12...	1240	0.40	0.070	0.020	0.030	180	20	<1	<0.5	<1.0
FEB										
12...	1315	1.1	0.410	0.070	0.070	--	--	--	--	--
APR										
17...	1130	0.90	0.320	0.050	0.070	130	50	1	<0.5	<1.0
JUN										
26...	1245	0.70	0.140	0.110	0.090	160	20	3	<0.5	<1.0
AUG										
27...	1210	0.70	0.240	0.100	0.080	200	10	4	<0.5	<1.0

DATE	TIME	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
DEC										
12...	1240	<1	<3	1	5	<1	9	260	0.1	<10
APR										
17...	1130	<1	<3	3	35	1	<4	8	<0.1	<10
JUN										
26...	1245	<1	<3	3	15	<1	6	<1	<0.1	<10
AUG										
27...	1210	<1	<3	3	5	<1	9	5	<0.1	<10

DATE	TIME	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
07...	1045	--	--	--	--	--	--	70	52	55
DEC										
12...	1240	2	<1	<1.0	190	<6	24	35	20	32
FEB										
12...	1315	--	--	--	--	--	--	994	14400	99
APR										
17...	1130	2	<1	<1.0	130	<6	23	230	1230	97
JUN										
26...	1245	2	<1	<1.0	160	<6	19	388	2190	99
AUG										
27...	1210	<1	<1	<1.0	250	<6	9	247	187	98

07047810 ST. FRANCIS RIVER FLOODWAY NEAR MARKED TREE, ARKANSAS

LOCATION.--Lat 35°32'15", long 90°29'05", in SE ¼ NE ¼ sec.31, T.11 N., R.6 E., Poinsett County, Hydrologic Unit 08020203, at bridge on U.S. Highway 63, 3.6 mi northwest of Marked Tree.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV										
14...	1315	80513	80513	--	708	378	8.2	16.0	0.10	9.0
DEC										
19...	1515	80513	80513	--	1770	388	7.8	1.0	0.50	13.6
JAN										
24...	1100	80513	80513	67	7220	157	7.4	7.0	0.10	9.5
24...	1200	80513	80513	68	1700	--	--	7.0	0.10	--
24...	1230	80513	80513	68	59	--	--	7.0	0.10	--
24...	1300	80513	80513	68	146	--	--	7.0	0.10	--
FEB										
14...	1020	80513	80513	67	10800	132	7.5	12.0	0.10	7.2
14...	1040	80513	80513	68	999	136	7.2	12.0	0.10	6.0
14...	1100	80513	80513	68	3230	--	--	11.0	0.10	--
14...	1130	80513	80513	68	1240	--	--	11.0	0.10	--
14...	1200	80513	80513	68	288	--	--	10.5	0.10	--
MAR										
14...	1000	80513	80513	67	8200	184	7.1	17.5	0.15	6.8
14...	1030	80513	80513	68	2400	--	--	17.5	0.15	--
14...	1100	80513	80513	68	131	--	--	17.0	0.15	--
14...	1130	80513	80513	68	189	--	--	17.0	0.15	--
APR										
25...	1000	80513	80513	67	6800	192	7.5	21.5	0.10	6.2
25...	1030	80513	80513	68	1720	--	--	21.5	0.10	--
25...	1100	80513	80513	68	69	--	--	21.0	0.10	--
25...	1130	80513	80513	68	137	--	--	21.0	0.10	--
MAY										
23...	0930	80513	80513	67	7520	199	7.4	19.0	0.10	6.6
23...	0945	80513	80513	68	1650	--	--	19.5	0.10	--
23...	1015	80513	80513	68	63	--	--	19.5	0.10	--
23...	1045	80513	80513	68	133	--	--	19.5	0.10	--
JUN										
13...	0930	80513	80513	67	7060	115	6.8	24.5	0.20	6.2
13...	0950	80513	80513	68	1870	--	--	25.0	0.20	--
13...	1015	80513	80513	68	56	--	--	25.0	0.20	--
13...	1045	80513	80513	68	118	--	--	25.0	0.20	--

07047810 ST. FRANCIS RIVER FLOODWAY NEAR MARKED TREE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
NOV										
14...	1315	92	755	60	115	97	98	98	100	--
DEC										
19...	1515	95	765	32	153	91	91	93	99	100
JAN										
24...	1100	79	752	210	4090	70	81	99	100	--
24...	1200	--	--	246	1130	94	96	99	100	--
24...	1230	--	--	236	37	99	99	99	100	--
24...	1300	--	--	329	130	100	--	--	--	--
FEB										
14...	1020	67	758	142	4140	95	96	100	--	--
14...	1040	56	758	128	345	99	99	100	--	--
14...	1100	--	--	242	2110	99	99	100	--	--
14...	1130	--	--	346	1160	99	99	100	--	--
14...	1200	--	--	337	262	100	--	--	--	--
MAR										
14...	1000	72	753	109	2410	58	62	83	100	--
14...	1030	--	--	132	855	76	78	98	100	--
14...	1100	--	--	172	61	96	96	98	100	--
14...	1130	--	--	139	71	96	96	97	100	--
APR										
25...	1000	70	760	119	2180	78	81	93	100	--
25...	1030	--	--	132	613	85	85	85	85	85
25...	1100	--	--	217	40	96	97	100	--	--
25...	1130	--	--	266	98	99	99	100	--	--
MAY										
23...	0930	71	760	458	9300	96	97	99	100	--
23...	0945	--	--	457	2040	99	99	99	100	--
23...	1015	--	--	208	35	98	98	99	100	--
23...	1045	--	--	238	85	99	99	99	100	--
JUN										
13...	0930	75	758	42	801	96	98	99	100	--
13...	0950	--	--	168	848	65	93	96	100	--
13...	1015	--	--	43	6.5	97	97	98	100	--
13...	1045	--	--	372	119	100	--	--	--	--

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)
NOV									
14...	1315	6	12	50	92	100	--	--	--
DEC									
19...	1515	17	38	88	98	100	--	--	--
JAN									
24...	1100	5	11	45	99	100	--	--	--
24...	1200	3	3	52	98	100	--	--	--
24...	1230	75	80	93	99	100	--	--	--
24...	1300	18	26	67	91	100	--	--	--
FEB									
14...	1020	16	34	87	98	100	--	--	--
14...	1040	1	2	6	25	--	52	75	100
14...	1100	1	1	39	96	100	--	--	--
14...	1130	59	66	76	90	100	--	--	--
14...	1200	9	11	44	91	100	--	--	--
MAR									
14...	1000	14	20	61	97	100	--	--	--
14...	1030	3	3	12	81	100	--	--	--
14...	1100	13	18	43	86	100	--	--	--
14...	1130	7	7	61	99	100	--	--	--
APR									
25...	1000	4	11	72	99	100	--	--	--
25...	1030	1	1	54	98	100	--	--	--
25...	1100	37	40	68	97	100	--	--	--
25...	1130	23	27	58	97	100	--	--	--
MAY									
23...	0930	4	19	79	99	100	--	--	--
23...	0945	4	5	58	97	100	--	--	--
23...	1015	68	71	83	96	100	--	--	--
23...	1045	9	12	40	86	100	--	--	--
JUN									
13...	0930	8	32	91	99	100	--	--	--
13...	0950	5	6	56	97	100	--	--	--
13...	1015	43	50	74	98	100	--	--	--
13...	1045	49	54	78	95	100	--	--	--

07047815 CROSS COUNTY DITCH NEAR BIRDEYE, ARKANSAS

LOCATION.--Lat 35°21'38", long 90°39'00", in NE ¼ SE ¼ sec.34, T.9 N., R.4 E., Cross County, Hydrologic Unit 08020203, at bridge on State Highway 42, 2.3 mi east of Birdeye.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
NOV										
14...	1415	80513	80513	941	17.5	0.10	91	231	92	93
DEC										
20...	1000	80513	80513	--	0.0	0.50	47	--	92	92
JAN										
24...	1415	80513	80513	8640	7.0	0.20	449	10500	72	79
FEB										
14...	1430	80513	80513	15600	12.0	0.10	266	11200	77	81
MAR										
14...	1300	80513	80513	11000	17.5	0.15	270	8020	31	35
APR										
25...	1230	80513	80513	8840	22.0	0.10	168	4010	65	68
MAY										
23...	1215	80513	80513	8920	19.5	0.10	230	5540	71	75
JUN										
13...	1220	80513	80513	8740	25.0	0.20	80	1890	85	92

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV									
14...	1415	97	100	--	1	1	33	94	100
DEC									
20...	1000	94	98	100	1	1	15	90	100
JAN									
24...	1415	91	100	--	9	28	83	99	100
FEB									
14...	1430	95	100	--	21	32	65	98	100
MAR									
14...	1300	66	99	100	0	1	68	99	100
APR									
25...	1230	87	99	100	1	1	68	99	100
MAY									
23...	1215	83	99	100	2	5	50	98	100
JUN									
13...	1220	98	100	--	1	1	66	99	100

07047900 ST. FRANCIS BAY AT RIVERFRONT, ARKANSAS

(National stream-quality accounting network station)

LOCATION.--Lat 35°15'34", long 90°40'48", in W ½ 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 west of Parkin.

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1982, October 1984 to current year 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 above National Geodetic Vertical Datum of 1929. 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 northwest of Marked Tree. Some regulation by Wappapello Lake (Missouri) since Apr. 1, 1941, capacity, 625,000 acre-ft. Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--51 years (1936-75, 78-82, 85-90), 5,420 ft³/s, 3,927,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,100 ft³/s Feb. 2, 1937; maximum gage height, 39.03 ft May 3, 1973 (backwater from Mississippi River); no flow Nov. 17-26, 1941, because of backwater from Mississippi River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,100 ft³/s Feb. 24, gage height, 30.80 ft; minimum daily, 361 ft³/s Oct. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	1090	692	1290	8460	23100	10900	11900	14500	6030	1910	1450
2	1490	1180	717	1970	9850	21800	10600	15700	15100	5740	1920	1260
3	1340	761	734	2070	11200	19800	12700	19000	15500	5360	1910	1160
4	1200	766	778	2030	12600	17700	14000	18800	14900	5250	1900	1120
5	1160	846	783	1840	14000	16000	14500	18600	14300	5000	1910	1080
6	1100	914	787	1760	15400	14500	14600	18900	13800	4800	1930	1010
7	1080	1060	793	1710	16800	13400	14000	19600	13300	4370	1890	982
8	1010	1880	959	1940	18100	17400	13000	20000	12900	4000	1870	1010
9	972	1320	1660	1380	19000	19000	11600	19900	12600	3620	1850	1090
10	932	1360	1250	1440	20500	17700	10300	18900	12300	3220	1790	1120
11	931	1360	935	1100	20700	16200	8850	17400	12000	2910	1750	1150
12	923	1310	904	1210	20000	15400	8080	15500	11500	2850	1680	1160
13	898	1280	1020	1580	19200	14800	7550	13100	11000	2770	1670	1150
14	937	1090	844	1640	18500	13900	7760	10700	10400	3220	1610	1130
15	911	927	801	1630	18800	14200	8100	9150	9850	2990	1640	1120
16	820	1020	820	1530	21400	13700	8190	8120	9260	2710	1520	1100
17	1070	1380	764	1580	22400	12500	9130	7550	8790	2490	1510	1040
18	853	1210	1010	1530	22800	12100	11900	7320	8580	2280	1410	988
19	848	1150	1390	1790	22700	11900	11200	7470	8240	2040	1510	961
20	1830	1120	1080	4420	23100	11500	11200	10800	7850	2100	1390	934
21	1500	1130	960	5480	23600	10900	14100	11700	7690	2210	1460	912
22	699	1120	970	4850	24500	10200	14400	12900	8700	2170	1370	877
23	452	1110	973	7860	25300	9430	12500	11500	10300	2350	1310	843
24	419	1060	976	9640	25400	8780	12000	11000	9080	2460	1280	822
25	380	905	939	10000	25300	8150	11000	11300	8190	2560	1290	808
26	361	817	743	9750	25100	7960	9710	11700	7610	2720	1300	778
27	369	840	1020	9200	24600	7530	8740	12100	7190	2620	1300	760
28	470	772	738	8370	24000	6620	10300	12700	6890	2280	1300	772
29	689	706	840	9180	---	6750	12100	12900	6590	2100	1290	761
30	1170	685	1100	8210	---	9690	11400	13300	6290	1980	1370	738
31	865	---	1920	7320	---	12100	---	13900	---	1930	1540	---
TOTAL	29189	32169	29900	125300	553310	414710	334410	423410	315200	99130	49380	30086
MEAN	942	1072	965	4042	19760	13380	11150	13660	10510	3198	1593	1003
MAX	1830	1880	1920	10000	25400	23100	14600	20000	15500	6030	1930	1450
MIN	361	685	692	1100	8460	6620	7550	7320	6290	1930	1280	738
AC-FT	57900	63810	59310	248500	1097000	822600	663300	839800	625200	196600	97950	59680

CAL YR 1989 TOTAL 3125108 MEAN 8562 MAX 45000 MIN 361 AC-FT 6199000
WTR YR 1990 TOTAL 2436194 MEAN 6675 MAX 25400 MIN 361 AC-FT 4832000

07047900 ST. FRANCIS BAY AT RIVERFRONT, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to September 1981.
WATER TEMPERATURES: October 1973 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT											
24...	1330	80513	80513	230	321	8.1	19.0	--	7.9	85	765
24...	1400	80513	80513	230	321	8.1	19.0	18	7.9	85	765
NOV											
14...	1500	80513	80513	924	395	8.2	17.5	--	7.6	80	755
DEC											
12...	1330	80513	80513	748	358	8.1	3.0	7.9	10.8	81	760
20...	1230	80513	80513	1420	425	8.1	1.0	--	13.2	92	767
JAN											
25...	0900	80513	80513	8110	149	7.6	7.5	--	9.6	81	756
FEB											
12...	1230	80513	80020	19000	132	8.0	12.0	90	8.0	74	760
15...	0800	80513	80513	15700	139	7.7	14.0	--	7.7	76	750
MAR											
14...	1400	80513	80513	11300	184	7.0	17.5	--	7.5	80	750
APR											
17...	1300	80513	80020	6990	225	7.7	14.5	45	9.2	90	763
25...	1430	80513	80513	9490	190	7.6	22.5	--	6.6	76	760
MAY											
23...	1440	80513	80513	8540	187	7.3	20.0	--	6.2	68	760
JUN											
13...	1500	80513	80513	10200	132	6.9	26.0	--	6.6	82	758
26...	1330	80513	80020	5450	210	7.6	25.0	45	6.6	80	760
JUL											
17...	1240	80513	80513	2400	302	7.7	24.5	--	7.7	92	763
AUG											
15...	1300	80513	80513	1440	375	7.8	26.5	--	8.0	100	760
27...	1315	80513	80020	562	365	8.1	30.5	25	6.2	83	760
SEP											
25...	1400	80513	80513	844	395	8.1	22.0	--	8.4	96	760

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
24...	1400	120	140	150	19	40	11	7.8	10	0.3	3.4
DEC											
12...	1330	10	10	180	11	51	13	10	11	0.3	1.9
FEB											
12...	1230	300	3900	51	2	13	4.4	4.4	15	0.3	1.3
APR											
17...	1300	K11	460	110	6	30	8.6	5.5	10	0.2	2.2
JUN											
26...	1330	K56	400	97	3	25	8.4	4.5	9	0.2	2.0
AUG											
27...	1315	K130	320	160	8	44	13	10	12	0.3	2.3

07047900 ST. FRANCIS BAY AT RIVERFRONT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT											
24...	1400	4	126	0	154	126	21	6.4	0.10	14	189
DEC											
12...	1330	--	169	--	207	170	21	8.1	0.10	18	218
FEB											
12...	1230	--	48	0	59	48	10	4.1	0.10	8.5	105
APR											
17...	1300	--	105	0	127	104	14	6.8	<0.10	9.3	133
JUN											
26...	1330	--	90	0	115	94	8.3	5.2	<0.10	13	119
AUG											
27...	1315	--	152	0	190	156	13	9.8	0.60	15	198

DATE	TIME	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
24...	1400	180	117	0.26	--	<0.010	<0.100	0.040	0.030	0.36	0.40
DEC											
12...	1330	226	440	0.30	--	0.010	<0.100	<0.010	0.010	--	0.50
FEB											
12...	1230	76	5390	0.14	0.170	0.010	0.180	0.070	0.020	0.33	0.40
APR											
17...	1300	140	2510	0.18	--	<0.010	0.200	0.040	0.020	0.66	0.70
JUN											
26...	1330	124	1750	0.16	--	<0.010	0.200	0.030	0.030	0.77	0.80
AUG											
27...	1315	202	300	0.27	--	<0.010	<0.100	0.030	<0.010	0.77	0.80

DATE	TIME	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT										
24...	1400	0.120	0.070	0.050	--	--	--	--	--	--
DEC										
12...	1330	0.090	0.060	0.060	210	<10	1	<0.5	<1.0	<1
FEB										
12...	1230	0.180	0.060	0.060	--	--	--	--	--	--
APR										
17...	1300	0.180	0.040	0.040	140	60	1	<0.5	<1.0	<1
JUN										
26...	1330	0.210	0.090	0.080	110	50	2	<0.5	<1.0	<1
AUG										
27...	1315	0.200	0.110	0.080	190	30	4	<0.5	<1.0	<1

DATE	TIME	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)
DEC										
12...	1330	<3	1	<3	<1	6	61	<0.1	<10	2
APR										
17...	1300	<3	2	46	<1	<4	31	<0.1	10	2
JUN										
26...	1330	<3	4	72	1	<4	11	<0.1	<10	2
AUG										
27...	1315	<3	2	5	<1	5	3	<0.1	<10	<1

07047900 ST. FRANCIS BAY AT RIVERFRONT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
OCT										
24...	1330	--	--	--	--	--	34	21	98	98
24...	1400	--	--	--	--	--	35	22	--	--
NOV										
14...	1500	--	--	--	--	--	80	200	96	96
DEC										
12...	1330	<1	<1.0	170	<6	14	7	14	--	--
20...	1230	--	--	--	--	--	36	138	93	94
JAN										
25...	0900	--	--	--	--	--	380	8320	83	90
FEB										
12...	1230	--	--	--	--	--	121	6210	--	--
15...	0800	--	--	--	--	--	227	9620	88	91
MAR										
14...	1400	--	--	--	--	--	174	5310	59	67
APR										
17...	1300	<1	<1.0	100	<6	18	106	2000	--	--
25...	1430	--	--	--	--	--	199	5100	70	73
MAY										
23...	1440	--	--	--	--	--	225	5190	96	98
JUN										
13...	1500	--	--	--	--	--	94	2590	80	86
26...	1330	<1	<1.0	78	<6	32	116	1710	--	--
JUL										
17...	1240	--	--	--	--	--	126	816	88	91
AUG										
15...	1300	--	--	--	--	--	116	451	84	86
27...	1315	<1	<1.0	170	<6	<3	472	716	--	--
SEP										
25...	1400	--	--	--	--	--	82	187	92	92

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
OCT										
24...	1330	100	--	--	--	1	2	27	95	100
24...	1400	--	--	--	97	--	--	--	--	--
NOV										
14...	1500	100	--	--	--	1	2	47	96	100
DEC										
12...	1330	--	--	--	92	--	--	--	--	--
20...	1230	98	100	--	--	1	2	77	99	100
JAN										
25...	0900	99	100	--	--	1	1	36	97	100
FEB										
12...	1230	--	--	--	74	--	--	--	--	--
15...	0800	99	99	100	--	0	0	59	99	100
MAR										
14...	1400	94	100	--	--	1	1	22	97	100
APR										
17...	1300	--	--	--	89	--	--	--	--	--
25...	1430	96	100	--	--	2	2	38	94	100
MAY										
23...	1440	100	--	--	--	2	2	29	96	100
JUN										
13...	1500	98	100	--	--	1	1	36	95	100
26...	1330	--	--	--	84	--	--	--	--	--
JUL										
17...	1240	97	100	--	--	1	1	37	93	100
AUG										
15...	1300	98	100	--	--	7	7	29	90	100
27...	1315	--	--	--	52	--	--	--	--	--
SEP										
25...	1400	96	100	--	--	0	0	40	97	100

07047904 CLARK CORNER CUTOFF NEAR COLT, ARKANSAS

LOCATION.--Lat 35 08'41", long 90 39'23", in NW ¼ NE ¼ sec.15, T.6 N., R.4 E., St. Francis County, Hydrologic Unit 080203, at bridge on Old Military Road 9.0 mi east of Colt.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
NOV										
15...	0720	80513	80513	993	17.0	0.10	68	182	87	90
DEC										
20...	1415	80513	80513	1710	1.0	0.50	45	208	96	96
JAN										
25...	1130	80513	80513	8860	7.5	0.10	280	6700	86	94
FEB										
15...	1030	80513	80513	18600	14.0	0.10	222	1100	91	93
MAR										
15...	1000	80513	80513	14300	17.0	0.15	208	8030	76	83
APR										
26...	0945	80513	80513	9960	22.0	0.10	149	4010	82	86
MAY										
24...	0825	80513	80513	10700	19.0	0.10	492	4200	96	97
JUN										
14...	0800	80513	80513	9680	25.0	0.20	76	1990	98	99

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV									
15...	0720	91	97	100	6	12	58	94	100
DEC									
20...	1415	98	100	--	8	17	57	94	100
JAN									
25...	1130	98	100	--	4	4	52	98	100
FEB									
15...	1030	97	98	100	0	1	88	99	100
MAR									
15...	1000	99	100	--	2	4	61	96	100
APR									
26...	0945	96	98	100	1	8	70	98	100
MAY									
24...	0825	100	--	--	5	17	54	86	100
JUN									
14...	0800	100	--	--	50	73	81	98	100

07047907 ST. FRANCIS RIVER AT MADISON, ARKANSAS

LOCATION.--Lat 35°00'38", long 90°43'05", in NE ¼ SW ¼ sec.30, T.5 N., R.4 E., St. Francis County, Hydrologic Unit 08020203, at bridge on State Highway 50 at Madison.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT										
24...	1120	9827	9827	710	--	--	7.9	19.0	45	8.7
25...	0830	80513	80513	402	0.20	330	7.8	16.0	--	7.7
NOV										
15...	0830	80513	80513	915	0.10	382	8.0	17.0	--	8.2
28...	1125	9827	9827	970	--	--	8.2	13.0	30	10.3
DEC										
05...	1015	9827	9827	820	--	--	8.1	18.0	15	11.9
20...	1515	80513	80513	--	0.30	428	8.0	0.0	--	14.5
JAN										
23...	1110	9827	9827	5500	--	--	7.5	8.0	600	10.5
25...	1300	80513	80513	8840	0.10	154	7.8	7.5	--	9.8
FEB										
15...	1145	80513	80513	6800	0.10	132	7.4	12.0	--	7.9
20...	1025	9827	9827	0000	--	--	7.2	10.0	280	8.5
MAR										
15...	0830	80513	80513	3200	0.15	176	7.7	17.0	--	7.9
27...	1030	9827	9827	0000	--	--	7.3	8.0	80	5.8
APR										
24...	1050	9827	9827	1800	--	--	7.5	24.0	120	3.0
26...	0815	80513	80513	9820	0.10	295	7.5	22.0	--	6.4
MAY										
22...	0845	9827	9827	9000	--	--	7.4	20.0	--	6.2
24...	0940	80513	80513	9590	0.10	196	6.8	20.0	--	6.5
JUN										
14...	0930	80513	80513	0400	0.20	238	7.5	25.5	--	5.8
26...	1205	9827	9827	4900	--	--	7.4	27.0	--	6.4
JUL										
18...	0720	80513	80513	2330	0.20	271	7.5	25.0	--	7.3
31...	1000	9827	9827	1850	--	--	8.6	29.0	--	9.1
AUG										
16...	0815	80513	80513	1540	0.10	342	7.5	23.5	--	5.2
28...	1205	9827	9827	1300	--	--	7.6	29.0	--	5.5
SEP										
04...	1055	9827	9827	1130	--	--	8.3	30.0	--	6.9
26...	0930	80513	80513	861	0.40	410	8.0	20.0	--	7.9

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT									
24...	1120	1.8	150	19	7.4	204	49	<0.020	<0.050
NOV									
28...	1125	2.3	180	21	9.3	214	49	<0.020	<0.050
DEC									
05...	1015	1.5	180	20	8.2	--	--	--	--
JAN									
23...	1110	2.2	100	21	7.2	183	--	0.720	0.160
FEB									
20...	1025	1.3	44	10	4.6	148	141	0.180	0.080
MAR									
27...	1030	1.1	44	7.0	6.6	103	31	0.270	<0.050
APR									
24...	1050	1.7	32	12	7.2	167	22	0.190	0.250
MAY									
22...	0845	1.6	72	9.0	4.8	217	--	0.460	0.070
JUN									
26...	1205	4.1	74	19	22	--	61	0.270	0.090
JUL									
31...	1000	3.0	180	16	12	221	37	0.080	--
AUG									
28...	1205	1.2	190	9.0	42	--	--	0.020	0.060
SEP									
04...	1055	1.4	160	19	9.5	202	68	<0.020	--

07047907 ST. FRANCIS RIVER AT MADISON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
24...	1120	0.190	0.100	<1	--	92	10	10	5.9
NOV									
28...	1125	0.170	<0.030	<1	1	<15	<2	<10	3.5
DEC									
05...	1015	0.140	0.040	<1	<1	16	<2	<10	--
JAN									
23...	1110	0.600	--	--	--	--	--	--	10
FEB									
20...	1025	0.410	0.250	--	--	--	--	--	8.7
MAR									
27...	1030	0.250	0.190	--	--	--	--	--	13
APR									
24...	1050	0.330	0.220	--	--	--	--	--	13
MAY									
22...	0845	0.760	0.090	--	--	--	--	--	13
JUN									
26...	1205	0.260	0.130	--	--	--	--	--	12
JUL									
31...	1000	0.190	0.050	--	--	--	--	--	5.8
AUG									
28...	1205	0.090	<0.030	--	--	--	--	--	--
SEP									
04...	1055	0.180	0.210	--	--	--	--	--	7.0

DATE	TIME	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)
OCT										
25...	0830	65	71	99	99	100	--	--	7	19
NOV										
15...	0830	73	180	95	95	96	100	--	11	21
DEC										
20...	1515	80	--	98	98	99	100	--	16	33
JAN										
25...	1300	306	7300	91	96	99	99	100	48	63
FEB										
15...	1145	186	8440	100	--	--	--	--	1	1
MAR										
15...	0830	134	4780	72	75	87	100	--	0	1
APR										
26...	0815	142	3760	91	94	99	100	--	0	0
MAY										
24...	0940	255	6600	98	99	99	100	--	1	1
JUN										
14...	0930	105	2950	98	98	99	100	--	1	1
JUL										
18...	0720	103	648	96	96	96	100	--	8	17
AUG										
16...	0815	102	424	95	99	99	100	--	21	41
SEP										
26...	0930	95	221	94	97	97	100	--	8	20

07047907 ST. FRANCIS RIVER AT MADISON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT									
25...	0830	36	62	--	--	97	100	--	--
NOV									
15...	0830	38	59	100	--	--	--	--	--
DEC									
20...	1515	56	78	100	--	--	--	--	--
JAN									
25...	1300	98	99	100	--	--	--	--	--
FEB									
15...	1145	17	80	100	--	--	--	--	--
MAR									
15...	0830	14	26	40	--	40	58	93	100
APR									
26...	0815	5	71	98	100	--	--	--	--
MAY									
24...	0940	36	72	100	--	--	--	--	--
JUN									
14...	0930	28	85	100	--	--	--	--	--
JUL									
18...	0720	54	70	100	--	--	--	--	--
AUG									
16...	0815	79	89	100	--	--	--	--	--
SEP									
26...	0930	59	71	100	--	--	--	--	--

07047942 L'ANGUILLE RIVER NEAR COLT, ARKANSAS

LOCATION.--Lat 35°08'40", long 90°52'42", in NE ¼ NW ¼ 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 downstream from Lick Creek, 3.9 mi northwest of Colt, and at mile 52.8.

DRAINAGE AREA.--535 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 192.52 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Water-discharge records good.

AVERAGE DISCHARGE.--20 years, 764 ft³/s, 19.39 in/yr, 553,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,300 ft³/s Dec. 30, 1987, gage height, 17.34 ft, from floodmark; minimum, 0.99 ft³/s July 20, 1980, gage height, 2.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,320 ft³/s Feb. 3, gage height, 14.51 ft; minimum, 7.5 ft³/s Dec. 12, 13, 15-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	45	11	53	2490	1730	2410	1130	774	261	45	124
2	460	35	11	34	3120	1540	2570	1650	718	264	40	148
3	470	29	9.0	57	5050	1360	2300	2470	706	262	44	152
4	462	24	7.9	134	5890	1200	1970	2920	632	253	48	149
5	422	21	10	151	5350	1010	1690	3020	549	237	47	148
6	372	19	14	137	4710	905	1630	2670	474	210	43	142
7	316	18	16	125	3940	876	1390	2220	421	176	40	139
8	264	97	16	116	3300	3120	1080	1850	384	148	38	134
9	200	146	14	109	2880	4480	904	1580	346	139	40	162
10	139	131	12	100	3180	4830	836	1330	314	138	43	192
11	97	166	9.8	87	2870	4340	788	1100	282	121	47	315
12	66	176	7.7	76	2690	3690	731	1020	251	93	48	386
13	45	161	7.7	64	2390	3170	674	1150	215	64	80	479
14	30	138	7.9	55	2060	2740	610	942	179	52	127	570
15	21	124	7.6	49	1910	3090	533	856	150	50	115	627
16	17	130	7.5	42	2250	2690	457	789	126	47	104	654
17	29	79	7.5	44	2780	2350	495	726	106	39	108	649
18	21	54	7.5	157	3120	2030	613	649	93	26	109	620
19	47	42	8.1	289	3140	1720	659	566	77	22	107	575
20	131	32	9.5	815	3120	1450	740	1390	62	26	103	527
21	180	20	10	877	3050	1190	1200	2140	53	32	100	491
22	193	14	11	1240	3250	969	1770	2990	244	32	96	452
23	187	28	10	2000	3150	882	1910	3190	260	71	90	431
24	176	22	10	2150	2990	819	1850	2920	174	74	88	414
25	162	13	10	1860	2740	771	1570	2500	201	50	80	393
26	145	11	10	1510	2440	717	1260	2070	223	40	78	365
27	126	11	11	1210	2140	656	1010	1720	227	38	84	332
28	106	10	12	1060	1890	602	1430	1390	233	42	87	303
29	87	10	12	2140	---	639	1500	1100	241	42	83	272
30	71	11	16	2410	---	1250	1250	913	252	38	90	239
31	57	---	54	2470	---	1890	---	837	---	52	113	---
TOTAL	5580	1817	367.7	21621	87890	58706	37830	51798	8967	3139	2365	10584
MEAN	180	60.6	11.9	697	3139	1894	1261	1671	299	101	76.3	353
MAX	481	176	54	2470	5890	4830	2570	3190	774	264	127	654
MIN	17	10	7.5	34	1890	602	457	566	53	22	38	124
AC-FT	11070	3600	729	42890	174300	116400	75040	102700	17790	6230	4690	20990
CFSM	.34	.11	.02	1.30	5.87	3.54	2.36	3.12	.56	.19	.14	.66
IN.	.39	.13	.03	1.50	6.11	4.08	2.63	3.60	.62	.22	.16	.74

CAL YR 1989 TOTAL 326521.7 MEAN 895 MAX 8360 MIN 7.5 AC-FT 647700 CFSM 1.67 IN. 22.70
WTR YR 1990 TOTAL 290664.7 MEAN 796 MAX 5890 MIN 7.5 AC-FT 576500 CFSM 1.49 IN. 20.21

07047942 L'ANGUILLE RIVER NEAR COLT, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT											
25...	1015	80513	80513	--	172	306	7.7	16.0	5.8	58	--
25...	1045	80513	80513	--	172	306	7.7	16.0	5.8	58	1.8
NOV											
15...	0930	80513	80513	--	100	238	6.4	17.5	5.0	53	--
DEC											
13...	0930	80513	80513	--	10	305	7.8	2.0	9.8	71	2.2
JAN											
25...	0700	80513	80513	67	1100	123	7.1	8.0	6.9	59	--
25...	0730	80513	80513	68	180	124	7.3	7.5	6.9	58	--
FEB											
12...	1500	80513	80020	--	2730	104	7.6	12.0	7.0	65	2.8
14...	1600	80513	80513	67	1670	109	7.1	13.0	6.2	59	--
14...	1630	80513	80513	68	272	111	7.2	12.0	6.3	59	--
MAR											
14...	1630	80513	80513	67	1640	86	7.0	18.0	5.5	59	--
14...	1700	80513	80513	68	970	84	6.9	18.0	5.8	62	--
APR											
17...	1000	80513	80020	--	459	119	7.0	16.5	6.0	62	3.1
26...	1115	80513	80513	--	1060	99	7.0	22.0	3.7	43	--
MAY											
23...	1315	80513	80513	67	2560	66	6.8	20.0	5.2	57	--
23...	1340	80513	80513	68	450	75	6.8	20.0	5.2	57	--
JUN											
13...	1350	80513	80513	--	204	111	6.6	26.5	3.8	48	--
26...	1100	80513	80020	--	224	144	7.1	25.0	4.8	58	3.5
JUL											
17...	1420	80513	80513	--	21	432	7.1	25.0	3.8	46	--
AUG											
16...	1000	80513	80513	--	84	498	7.6	25.0	4.2	51	--
27...	1100	80513	80020	--	88	598	7.2	29.0	4.9	64	2.7
SEP											
26...	0810	80513	80513	--	392	410	7.5	19.0	5.6	61	--

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
25...	1015	766	--	--	--	--	--	--	--	--	--
25...	1045	766	260	570	98	24	9.3	12	19	0.5	12
NOV											
15...	0930	749	--	--	--	--	--	--	--	--	--
DEC											
13...	0930	760	K180	240	100	25	9.5	17	25	0.7	8.5
JAN											
25...	0700	754	--	--	--	--	--	--	--	--	--
25...	0730	754	--	--	--	--	--	--	--	--	--
FEB											
12...	1500	758	K120	570	35	9.0	3.0	5.1	23	0.4	2.2
14...	1600	755	--	--	--	--	--	--	--	--	--
14...	1630	755	--	--	--	--	--	--	--	--	--
MAR											
14...	1630	748	--	--	--	--	--	--	--	--	--
14...	1700	748	--	--	--	--	--	--	--	--	--
APR											
17...	1000	760	430	540	47	12	4.1	5.1	18	0.3	2.6
26...	1115	757	--	--	--	--	--	--	--	--	--
MAY											
23...	1315	760	--	--	--	--	--	--	--	--	--
23...	1340	760	--	--	--	--	--	--	--	--	--
JUN											
13...	1350	758	--	--	--	--	--	--	--	--	--
26...	1100	760	730	1200	86	22	7.6	11	21	0.5	4.9
JUL											
17...	1420	763	--	--	--	--	--	--	--	--	--
AUG											
16...	1000	760	--	--	--	--	--	--	--	--	--
27...	1100	760	730	460	260	61	25	26	18	0.7	3.0
SEP											
26...	0810	758	--	--	--	--	--	--	--	--	--

07047942 L'ANGUILLE RIVER NEAR COLT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT 25...	1045	87	23	19	0.20	152	70.6	0.21	--	0.010
DEC 13...	0930	105	12	19	0.20	164	4.60	0.22	1.97	0.030
FEB 12...	1500	35	9.0	4.8	0.10	54	401	0.07	--	0.010
APR 17...	1000	49	7.3	3.9	0.10	66	81.8	0.09	0.280	0.020
JUN 26...	1100	52	40	12	0.20	131	79.2	0.18	0.370	0.030
AUG 27...	1100	258	24	26	0.40	321	76.4	0.44	--	<0.010

DATE	TIME	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BORON, DIS-SOLVED (UG/L AS B) (01020)
OCT 25...	1045	<0.100	0.060	0.030	1.0	1.1	0.180	0.060	0.050	40
DEC 13...	0930	2.00	0.050	0.030	1.0	1.1	0.460	0.280	0.270	40
FEB 12...	1500	<0.100	0.020	0.030	0.98	1.0	0.160	0.070	0.060	10
APR 17...	1000	0.300	0.110	0.070	0.89	1.0	0.220	0.040	0.040	<10
JUN 26...	1100	0.400	0.130	0.110	0.77	0.90	0.120	0.040	0.020	20
AUG 27...	1100	0.200	0.040	0.030	0.66	0.70	0.270	0.150	0.110	20

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
APR 17...	1000	4800	2	<1	5	2	4	4800	4	320

07047942 L'ANGUILLE RIVER NEAR COLT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)
OCT										
25...	1015	--	--	--	--	--	86	40	99	99
25...	1045	--	--	--	--	--	98	46	--	--
NOV										
15...	0930	--	--	--	--	--	207	56	99	99
DEC										
13...	0930	--	--	--	--	--	36	1.0	--	--
JAN										
25...	0700	--	--	--	--	--	1640	4870	97	98
25...	0730	--	--	--	--	--	131	64	96	97
FEB										
12...	1500	--	--	--	--	--	42	310	--	--
14...	1600	--	--	--	--	--	129	582	98	100
14...	1630	--	--	--	--	--	100	73	98	99
MAR										
14...	1630	--	--	--	--	--	84	372	97	97
14...	1700	--	--	--	--	--	82	215	98	98
APR										
17...	1000	<1	<0.10	4	<1	20	89	110	--	--
26...	1115	--	--	--	--	--	95	272	99	99
MAY										
23...	1315	--	--	--	--	--	334	2310	99	99
23...	1340	--	--	--	--	--	255	310	96	96
JUN										
13...	1350	--	--	--	--	--	230	127	99	99
26...	1100	--	--	--	--	--	210	127	--	--
JUL										
17...	1420	--	--	--	--	--	10	0.56	94	94
AUG										
16...	1000	--	--	--	--	--	246	56	96	98
27...	1100	--	--	--	--	--	115	27	--	--
SEP										
26...	0810	--	--	--	--	--	102	108	94	94

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
OCT										
25...	1015	99	100	--	--	90	95	97	98	100
25...	1045	--	--	--	99	--	--	--	--	--
NOV										
15...	0930	99	100	--	--	96	98	98	99	100
DEC										
13...	0930	--	--	--	92	--	--	--	--	--
JAN										
25...	0700	98	100	--	--	92	95	97	98	100
25...	0730	98	100	--	--	80	85	90	95	100
FEB										
12...	1500	--	--	--	94	--	--	--	--	--
14...	1600	--	--	--	--	97	99	100	--	--
14...	1630	100	--	--	--	96	97	98	100	--
MAR										
14...	1630	97	98	100	--	50	57	69	87	100
14...	1700	99	100	--	--	55	60	69	94	100
APR										
17...	1000	--	--	--	94	--	--	--	--	--
26...	1115	99	100	--	--	93	96	97	98	100
MAY										
23...	1315	100	--	--	--	96	98	99	99	100
23...	1340	97	98	100	--	97	97	98	99	100
JUN										
13...	1350	99	100	--	--	94	96	98	99	100
26...	1100	--	--	--	95	--	--	--	--	--
JUL										
17...	1420	97	100	--	--	96	97	98	99	100
AUG										
16...	1000	98	100	--	--	95	97	99	99	100
27...	1100	--	--	--	95	--	--	--	--	--
SEP										
26...	0810	97	100	--	--	90	93	96	98	100

07047947 SECOND CREEK NEAR PALESTINE, ARKANSAS

LOCATION.--Lat 35°02'20", long 90°54'40", in SW ¼ SE ¼ sec.17, T.5 N., R.2 E., St. Francis County, Hydrologic Unit 08020205, at bridge on county road, 4.0 mi north of Palestine.

PERIOD OF RECORD.--June 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1025	9827	9827	7.6	18.0	8.5	6.2	0.7	110
NOV 28.	1040	9827	9827	7.5	11.0	15	5.8	1.1	80
DEC 05.	0940	9827	9827	7.5	15.0	9.2	8.4	1.6	82
JAN 23.	1030	9827	9827	7.0	8.0	85	6.4	1.7	46
FEB 20.	0945	9827	9827	7.3	8.0	85	6.9	0.9	34
MAR 27.	0955	9827	9827	7.9	10.0	25	8.7	1.1	120
APR 24.	1015	9827	9827	7.6	21.0	210	6.7	2.5	38
MAY 22.	0813	9827	9827	7.2	19.0	--	3.3	2.1	34
JUN 26.	1057	9827	9827	7.7	25.0	--	6.4	1.2	96
JUL 31.	0930	9827	9827	7.7	26.0	--	--	--	160
AUG 28.	1055	9827	9827	8.3	29.0	--	6.9	1.9	170
SEP 04.	1020	9827	9827	7.8	27.0	--	5.5	1.3	250

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1025	7.0	27	178	9	<0.020	<0.050	0.080
NOV 28.	1040	10	20	127	8	<0.020	<0.050	0.090
DEC 05.	0940	8.0	22	--	--	--	--	0.090
JAN 23.	1030	14	11	161	--	0.400	0.070	0.190
FEB 20.	0945	8.0	7.0	132	25	0.080	<0.050	0.170
MAR 27.	0955	14	7.7	113	30	0.080	<0.050	0.120
APR 24.	1015	12	5.5	142	212	0.270	0.100	0.490
MAY 22.	0813	10	6.7	390	--	0.420	0.120	0.510
JUN 26.	1057	10	4.2	--	100	0.160	0.050	0.300
JUL 31.	0930	8.0	26	243	17	0.450	--	0.090
AUG 28.	1055	19	9.4	--	--	<0.020	<0.050	0.310
SEP 04.	1020	14	51	365	6	0.030	--	0.050

07047947 SECOND CREEK NEAR PALESTINE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1025	0.070	<1	--	<15	4	10	8.5
NOV								
28.	1040	<0.030	<1	<1	<15	<2	<10	7.5
DEC								
05.	0940	0.030	<1	<1	<15	<2	<10	--
JAN								
23.	1030	--	--	--	--	--	--	12
FEB								
20.	0945	0.130	--	--	--	--	--	12
MAR								
27.	0955	0.060	--	--	--	--	--	4.9
APR								
24.	1015	0.080	--	--	--	--	--	10
MAY								
22.	0813	0.130	--	--	--	--	--	20
JUN								
26.	1057	0.120	--	--	--	--	--	8.7
JUL								
31.	0930	0.050	--	--	--	--	--	6.4
AUG								
28.	1055	0.080	--	--	--	--	--	--
SEP								
04.	1020	--	--	--	--	--	--	9.6

07047964 L'ANGUILLE RIVER AT MARIANNA, ARKANSAS

LOCATION.--Lat 34°47'12", long 90°45'00", in SE ¼ sec.11, T.2 N., R.3 E., Lee County, Hydrologic Unit 08020205, at bridge on U.S. Highway 79, 1.0 mi northeast of Marianna.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 24.	1230	9827	9827	287	7.6	19.0	50	7.4	1.9
NOV 28.	1215	9827	9827	13	7.5	12.0	50	6.9	2.1
DEC 05.	1115	9827	9827	6.0	7.5	9.0	20	8.0	1.7
JAN 23.	1150	9827	9827	2490	7.0	9.0	80	8.8	2.5
FEB 20.	1120	9827	9827	5700	7.2	11.0	70	7.7	0.8
MAR 27.	0915	9827	9827	1880	7.3	11.0	60	6.6	0.6
APR 24.	0935	9827	9827	3500	7.5	22.0	180	5.3	2.2
MAY 22.	0950	9827	9827	4360	7.5	20.0	--	4.8	1.7
JUN 26.	1000	9827	9827	421	7.0	25.0	--	1.7	3.0
JUL 31.	1100	9827	9827	70	8.2	29.0	--	7.4	4.5
AUG 28.	1010	9827	9827	225	8.2	28.0	--	7.1	2.9
SEP 04.	1140	9827	9827	312	8.2	29.0	--	7.8	3.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1230	140	13	24	230	51	0.060	<0.050	0.230
NOV 28.	1215	120	23	17	186	36	0.520	<0.050	0.280
DEC 05.	1115	180	23	14	--	--	--	--	0.160
JAN 23.	1150	48	15	9.0	142	--	0.430	0.080	0.290
FEB 20.	1120	40	15	5.9	119	18	0.080	0.050	0.170
MAR 27.	0915	32	7.0	5.1	74	24	0.360	0.080	0.230
APR 24.	0935	32	10	11	141	111	0.240	0.190	0.440
MAY 22.	0950	26	9.0	4.9	175	--	0.280	0.150	0.430
JUN 26.	1000	14	13	6.2	--	129	0.950	0.270	0.590
JUL 31.	1100	210	21	34	278	64	0.350	--	0.190
AUG 28.	1010	250	25	24	--	--	0.070	0.070	0.240
SEP 04.	1140	250	23	30	355	66	<0.020	--	0.290

07047964 L'ANGUILLE RIVER AT MARIANNA, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1230	0.110	<1	--	<15	<2	10	9.0
NOV								
28.	1215	0.080	<1	2	<15	2	<20	8.6
DEC								
05.	1115	0.030	<1	<1	16	<2	<10	--
JAN								
23.	1150	--	--	--	--	--	--	12
FEB								
20.	1120	0.140	--	--	--	--	--	9.6
MAR								
27.	0915	0.200	--	--	--	--	--	9.5
APR								
24.	0935	0.150	--	--	--	--	--	14
MAY								
22.	0950	0.150	--	--	--	--	--	13
JUN								
26.	1000	0.290	--	--	--	--	--	9.6
JUL								
31.	1100	0.040	--	--	--	--	--	9.0
AUG								
28.	1010	0.090	--	--	--	--	--	--
SEP								
04.	1140	0.200	--	--	--	--	--	8.0

07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE, ARKANSAS

LOCATION.--Lat 36°03'00", long 94°04'42", in NW ¼ sec.20, T.16 N., R.29 W., Washington County, Hydrologic Unit 11010001, at bridge on Mally Wagon Road, 0.5 mi north of State Highway 16, 1.4 mi upstream from White River, and 4.3 mi east of Fayetteville.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
DEC									
05.	1451	9827	9827	--	7.9	9.0	2.6	11.1	1.1
19.	1530	9827	9827	--	8.2	3.0	4.5	13.9	3.7
JAN									
23.	1450	9827	9827	--	7.9	9.0	15	10.7	0.3
FEB									
27.	1731	9827	9827	54	8.1	10.0	15	10.7	--
MAR									
27.	1430	9827	9827	58	8.1	10.0	10	11.3	0.8
APR									
24.	1450	9827	9827	235	8.0	26.0	20	8.5	0.2
MAY									
08.	1500	9827	9827	180	7.9	18.0	20	8.8	0.3
JUN									
26.	1500	9827	9827	430	7.8	24.0	--	7.0	--
JUL									
31.	1417	9827	9827	2.2	7.8	27.0	--	7.5	3.7
AUG									
28.	1413	9827	9827	2.9	8.0	33.0	--	6.7	1.7
SEP									
25.	1355	9827	9827	--	7.7	22.0	--	5.8	0.9

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
DEC									
05.	1451	150	42	--	--	2	<0.020	--	0.52
19.	1530	150	39	11	200	10	0.080	<0.050	0.64
JAN									
23.	1450	68	29	4.7	105	8	1.50	0.060	0.62
FEB									
27.	1731	56	12	3.4	84	13	0.680	<0.050	0.63
MAR									
27.	1430	56	14	2.8	94	6	0.460	0.130	0.38
APR									
24.	1450	50	10	2.3	47	20	--	<0.050	0.74
MAY									
08.	1500	46	10	2.6	91	17	0.400	<0.050	0.80
JUN									
26.	1500	88	22	4.1	119	--	1.20	0.440	0.88
JUL									
31.	1417	--	26	3.9	144	17	0.140	--	0.76
AUG									
28.	1413	130	28	8.1	160	9	0.060	<0.050	1.0
SEP									
25.	1355	110	42	5.3	172	36	0.960	0.080	1.2

07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC								
05.	1451	0.100	--	--	--	--	--	3.9
19.	1530	0.060	0.040	<1	1	<15	20	5.9
JAN								
23.	1450	0.070	--	--	--	--	--	2.9
FEB								
27.	1731	0.110	--	--	--	--	--	1.3
MAR								
27.	1430	0.050	<0.030	--	--	--	--	1.7
APR								
24.	1450	0.080	0.030	--	--	--	--	5.2
MAY								
08.	1500	0.070	<0.030	--	--	--	--	1.6
JUN								
26.	1500	0.290	0.050	--	--	--	--	8.6
JUL								
31.	1417	0.080	<0.030	--	--	--	--	5.4
AUG								
28.	1413	0.070	<0.030	--	--	--	--	6.3
SEP								
25.	1355	0.380	0.050	--	--	--	--	6.9

07048600 WHITE RIVER NEAR FAYETTEVILLE, ARKANSAS

LOCATION.--Lat 36°04'23", long 94°04'51", in NE ¼ SW ¼ 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 downstream from West Fork White River, 0.8 mi downstream from Lake Sequoyah Dam on White River, 4.3 mi east of Fayetteville, and at mile 684.0.

DRAINAGE AREA.--400 mi².

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

REVISED RECORDS.--WRD Ark. 1973: Drainage area. WRD Ark. 1974: 1966(M), 1972(M). WRD ARKANSAS 1985: 1966(M), 1968-69(M), 1971-73(M).

GAGE.--Water-stage recorder. Datum of gage is 1,138.25 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--27 years, 552 ft³/s, 18.74 in/yr, 399,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,600 ft³/s Nov. 19, 1985, gage height, 30.45 ft, from rating curve extended above 35,400 ft³/s; minimum, 0.10 ft³/s Oct. 3, 1982, gage height, 0.92 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Jan. 19	2100	8,990	14.41	Apr. 17	1200	30,100	22.72
Feb. 01	2115	12,100	16.65	Apr. 20	1600	13,200	17.24
Feb. 15	1400	15,500	18.19	May 02	1100	13,600	17.39
Mar. 12	0700	13,100	17.16	May 03	1100	*76,800	*29.87
Mar. 15	0530	29,400	22.14	May 20	0200	8,410	13.91

Minimum discharge, 0.27 ft³/s Oct. 19-22, 23-25

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	2.1	2.5	3.8	4630	1570	602	1530	1420	115	16	1.8
2	3.9	1.1	2.5	3.8	4960	922	515	10100	1190	106	14	1.6
3	3.6	1.0	2.5	4.4	1800	657	458	45300	1000	96	15	1.6
4	3.3	.98	2.5	8.5	1360	480	419	10300	721	89	13	1.5
5	3.2	1.0	2.5	7.8	1010	376	390	3650	545	80	10	1.5
6	3.5	1.2	2.5	7.3	826	330	361	2300	422	75	9.1	1.4
7	5.4	1.5	2.4	7.6	664	1780	325	1670	336	73	8.8	1.4
8	5.0	1.9	2.5	8.6	539	1900	289	1320	369	68	8.4	1.7
9	3.1	2.2	2.7	9.8	581	1290	268	1110	317	60	7.4	1.8
10	1.8	2.5	3.3	11	1080	955	3020	926	315	57	7.2	1.9
11	1.5	2.5	3.6	12	784	1360	1310	806	409	56	6.8	3.2
12	1.3	2.4	3.4	13	608	8530	906	1290	268	56	7.2	4.6
13	.57	2.4	3.3	14	501	2500	738	1090	233	59	7.2	2.3
14	.54	2.4	3.1	16	493	6970	956	763	216	53	9.3	1.6
15	.53	2.3	3.1	18	10700	16100	827	611	393	28	6.0	1.4
16	.42	2.2	3.1	22	3120	2960	926	507	312	28	5.0	1.2
17	.36	2.2	3.0	185	1430	1780	18500	531	248	27	4.3	1.2
18	.31	2.2	2.7	208	989	1280	4480	447	222	25	4.1	3.5
19	.31	2.2	2.7	3220	711	1080	2910	1230	208	25	2.8	7.5
20	.27	2.4	2.7	3660	501	851	8500	5640	196	25	1.6	31
21	.27	2.4	2.7	1140	382	683	5820	3240	1980	26	1.3	131
22	.27	3.6	2.7	656	792	568	2880	1890	2950	75	1.2	17
23	.28	5.2	2.7	446	710	450	2020	1340	1200	37	2.9	5.1
24	.27	1.2	2.5	331	491	412	1520	1030	769	29	1.7	2.0
25	.32	1.0	2.4	263	358	443	1230	805	511	29	1.9	1.0
26	.49	1.8	2.3	222	278	385	2670	1260	524	22	2.2	1.0
27	.64	2.5	2.2	186	247	354	2260	3680	323	18	2.1	1.4
28	.70	2.6	2.3	159	468	959	1950	1920	188	17	1.9	1.4
29	1.3	2.5	2.5	136	---	989	1480	1280	140	16	1.9	1.4
30	2.9	2.5	2.9	121	---	803	1180	2310	124	15	1.8	15
31	7.3	---	3.4	115	---	696	---	2190	---	14	1.8	---
TOTAL	57.55	63.98	85.2	11215.6	41013	60413	69710	112066	18049	1499	183.9	250.0
MEAN	1.86	2.13	2.75	362	1465	1949	2324	3615	602	48.4	5.93	8.33
MAX	7.3	5.2	3.6	3660	10700	16100	18500	45300	2950	115	16	131
MIN	.27	.98	2.2	3.8	247	330	268	447	124	14	1.2	1.0
AC-FT	114	127	169	22250	81350	119800	138300	222300	35800	2970	365	496
CFSM	.00	.01	.01	.90	3.66	4.87	5.81	9.04	1.50	.12	.01	.02
IN.	.01	.01	.01	1.04	3.81	5.62	6.48	10.42	1.68	.14	.02	.02

CAL YR 1989 TOTAL 195448.73 MEAN 535 MAX 11900 MIN .27 AC-FT 387700 CFSM 1.34 IN. 18.18
WTR YR 1990 TOTAL 314606.23 MEAN 862 MAX 45300 MIN .27 AC-FT 624000 CFSM 2.15 IN. 29.26

07048700 WHITE RIVER NEAR GOSHEN, ARKANSAS

LOCATION.--Lat 36°06'21", long 94°00'41", in NE ¼ NW ¼ sec.31, T.17 N., R.28 W., Washington County, Hydrologic Unit 11010001, at bridge on State Highway 45, 0.2 mi upstream from Richland Creek, and 1.2 mi west of Goshen.

DRAINAGE AREA.--412 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT											
24...	0945	9827	9827	--	0.27	--	--	8.2	--	5.5	--
NOV											
28...	0945	9827	9827	--	8.7	--	--	7.9	8.0	6.8	9.8
JAN											
11...	0700	80513	80020	0.0	--	1.20	--	--	--	--	--
11...	0701	80513	80020	3.00	--	--	--	--	--	--	--
11...	0705	80513	81213	5.00	--	--	265	8.1	4.5	18	13.2
23...	0810	9827	9827	--	479	--	--	7.9	8.0	35	10.7
FEB											
27...	0905	9827	9827	--	268	--	--	8.4	10.0	15	10.8
MAR											
27...	0900	9827	9827	--	357	--	--	7.9	7.0	7.2	10.7
APR											
24...	1010	9827	9827	--	1580	--	--	7.8	18.0	25	8.6
MAY											
16...	1300	80513	80020	0.0	--	0.61	--	--	--	--	--
16...	1301	80513	80020	3.00	--	--	--	--	--	--	--
16...	1305	80513	81213	7.00	--	--	96	7.3	21.5	15	8.0
22...	0820	9827	9827	--	1980	--	--	7.6	17.0	45	8.5
JUN											
12...	1010	9827	9827	--	286	--	--	7.4	27.0	--	6.3
JUL											
30...	1205	80513	81213	0.0	--	0.98	--	--	--	--	--
30...	1206	80513	80020	3.00	--	--	--	--	--	--	--
30...	1210	80513	81213	6.00	--	--	257	7.6	26.5	2.6	4.9
31...	0910	9827	9827	--	14	--	--	8.7	27.0	--	12.7
AUG											
28...	0855	9827	9827	--	1.5	--	--	8.2	29.0	--	8.9
SEP											
25...	0915	9827	9827	--	1.0	--	--	7.6	19.0	--	5.1

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT											
24...	0945	3.3	--	120	--	--	--	--	23	181	10
NOV											
28...	0945	3.7	--	110	--	--	--	36	--	263	18
JAN											
11...	0700	--	0	--	--	--	--	--	--	--	--
11...	0705	6.6	--	59	21	1.5	40	--	--	--	--
23...	0810	3.3	--	30	--	--	--	4.6	15	71	18
FEB											
27...	0905	0.9	--	34	--	--	--	2.9	5.0	57	10
MAR											
27...	0900	2.3	--	34	--	--	--	--	6.0	46	6
APR											
24...	1010	--	--	28	--	--	--	2.3	4.0	45	15
MAY											
16...	1300	--	80	--	--	--	--	--	--	--	--
16...	1305	1.0	--	42	14	1.7	34	--	--	--	--
22...	0820	1.8	--	24	--	--	--	2.5	7.0	63	31
JUN											
12...	1010	2.5	--	60	--	--	--	4.1	10	84	4
JUL											
30...	1205	--	9	--	--	--	--	--	--	--	--
30...	1210	3.8	--	91	31	3.2	78	--	--	--	--
31...	0910	4.8	--	100	--	--	--	9.7	22	147	10
AUG											
28...	0855	5.5	--	110	--	--	--	23	50	--	11
SEP											
25...	0915	2.7	--	94	--	--	--	7.5	28	146	30

07048700 WHITE RIVER NEAR GOSHEN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
OCT											
24...	0945	0.060	<0.050	--	1.0	0.070	--	--	--	1	<1
NOV											
28...	0945	--	<0.050	--	1.2	0.260	0.140	--	--	<1	<1
JAN											
11...	0705	1.80	--	--	--	0.170	0.040	200	1	--	<10
23...	0810	1.40	<0.050	--	0.50	0.130	--	--	--	--	--
FEB											
27...	0905	0.640	<0.050	--	0.50	0.080	<0.030	--	--	--	--
MAR											
27...	0900	0.760	--	--	0.35	0.040	0.040	--	--	--	--
APR											
24...	1010	0.480	0.070	0.65	0.72	0.070	<0.030	--	--	--	--
MAY											
16...	1305	0.320	--	--	--	0.310	0.020	220	<1	--	<10
22...	0820	0.280	0.070	0.43	0.50	0.100	<0.030	--	--	--	--
JUN											
12...	1010	0.570	0.060	0.68	0.74	0.160	0.080	--	--	--	--
JUL											
30...	1210	0.210	--	--	--	0.070	0.020	110	<1	--	1
31...	0910	0.210	--	--	1.2	0.070	<0.030	--	--	--	--
AUG											
28...	0855	1.10	0.110	0.83	0.94	0.080	<0.030	--	--	--	--
SEP											
25...	0915	1.10	0.140	0.78	0.92	0.230	0.040	--	--	--	--

DATE	TIME	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
OCT											
24...	0945	<15	--	<2	--	--	--	<10	7.3	--	--
NOV											
28...	0945	24	--	<2	--	--	--	10	7.3	--	--
JAN											
11...	0701	--	--	--	--	--	--	--	--	16.0	0.900
11...	0705	2	470	<1	5	260	<0.10	20	--	--	--
23...	0810	--	--	--	--	--	--	--	4.0	--	--
FEB											
27...	0905	--	--	--	--	--	--	--	1.4	--	--
MAR											
27...	0900	--	--	--	--	--	--	--	1.7	--	--
MAY											
16...	1301	--	--	--	--	--	--	--	--	2.40	0.300
16...	1305	<1	620	<1	<1	120	<0.10	10	--	--	--
22...	0820	--	--	--	--	--	--	--	3.5	--	--
JUN											
12...	1010	--	--	--	--	--	--	--	4.2	--	--
JUL											
30...	1206	--	--	--	--	--	--	--	--	14.0	1.80
30...	1210	2	170	<1	2	100	<0.10	10	--	--	--
AUG											
28...	0855	--	--	--	--	--	--	--	6.4	--	--

07048980 HOLMAN CREEK NEAR HUNTSVILLE, ARKANSAS

LOCATION.--Lat 36°07'25", long 93°44'02", in SW ¼ NE ¼ sec.22, T.17 N., R.26 W., Madison County, Hydrologic Unit 11010001, at bridge on State Highway 23, 2.5 mi north of Huntsville.

PERIOD OF RECORD.--October 1984 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1020	9827	9827	7.6	17.0	3.0	--	1.2	170
NOV 28.	1500	9827	9827	8.0	9.0	2.0	9.8	3.4	180
DEC 19.	1515	9827	9827	8.0	2.0	2.5	11.5	3.8	160
JAN 23.	1330	9827	9827	7.8	12.0	5.5	9.9	2.1	84
FEB 27.	1425	9827	9827	8.1	2.0	4.0	11.1	1.8	86
MAR 27.	1420	9827	9827	8.5	13.0	2.8	12.3	1.4	86
APR 24.	1655	9827	9827	7.9	22.0	5.4	8.2	--	62
MAY 22.	1250	9827	9827	7.9	19.0	6.1	9.2	3.0	66
JUN 12.	1100	9827	9827	7.8	23.0	--	7.7	1.3	98
JUL 31.	1415	9827	9827	8.0	26.0	--	9.1	--	190
AUG 28.	1335	9827	9827	8.0	30.0	--	7.9	3.1	190
SEP 25.	1420	9827	9827	8.0	21.0	--	8.3	4.3	180

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1020	25	--	431	3	20.0	<0.050	0.70	0.160
NOV 28.	1500	--	130	523	10	--	<0.050	0.82	0.740
DEC 19.	1515	31	90	--	5	3.00	6.08	11	1.95
JAN 23.	1330	19	15	150	4	4.10	0.370	0.71	0.250
FEB 27.	1425	11	15	140	3	2.80	<0.050	0.80	0.130
MAR 27.	1420	11	--	126	2	2.80	--	0.47	0.100
APR 24.	1655	8.0	8.8	82	4	1.10	<0.050	2.3	0.060
MAY 22.	1250	10	8.2	103	3	0.620	0.090	0.40	0.060
JUN 12.	1100	13	22	168	3	2.30	0.060	0.80	0.070
JUL 31.	1415	18	86	462	7	19.0	--	1.2	1.22
AUG 28.	1335	20	100	--	8	20.0	0.070	0.94	2.00
SEP 25.	1420	20	62	401	9	16.0	0.080	1.7	2.25

07048980 HOLMAN CREEK NEAR HUNTSVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1020	--	<1	<1	<15	<2	<10	4.8
NOV								
28.	1500	0.600	<1	<1	<15	<2	10	3.3
DEC								
19.	1515	1.52	<1	6	23	<2	20	8.2
JAN								
23.	1330	--	--	--	--	--	--	4.8
FEB								
27.	1425	<0.030	--	--	--	--	--	2.9
MAR								
27.	1420	0.060	--	--	--	--	--	2.8
APR								
24.	1655	<0.030	--	--	--	--	--	--
MAY								
22.	1250	<0.030	--	--	--	--	--	2.6
JUN								
12.	1100	0.050	--	--	--	--	--	2.3
JUL								
31.	1415	0.980	--	--	--	--	--	--
AUG								
28.	1335	1.81	--	--	--	--	--	5.8
SEP								
25.	1420	1.71	--	--	--	--	--	--

07050390 OSAGE CREEK SOUTHWEST OF BERRYVILLE, ARKANSAS

LOCATION.--Lat 36°20'56", long 93°35'24", in SE ¼ SW ¼ sec.36, T.20 N., R.25 W., Carroll County, Hydrologic Unit 11010001, at bridge on State Highway 221 at McKennon Ford, and 1.0 mi southwest of Berryville.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1145	9827	9827	8.0	18.0	6.0	--	2.5	190
NOV 28.	1120	9827	9827	8.2	10.0	6.5	9.6	2.6	180
DEC 19.	1100	9827	9827	8.2	0.0	2.5	13.4	1.1	200
JAN 23.	0945	9827	9827	7.9	9.0	15	10.5	2.1	100
FEB 27.	1050	9827	9827	8.1	10.0	4.8	11.2	1.1	100
MAR 27.	1035	9827	9827	8.3	9.0	3.4	11.9	1.5	110
APR 24.	1140	9827	9827	8.0	18.0	6.6	9.2	--	88
MAY 22.	0950	9827	9827	8.0	17.0	4.4	8.9	1.6	110
JUN 12.	1220	9827	9827	8.2	26.0	--	9.3	1.7	140
JUL 31.	1035	9827	9827	8.1	27.0	--	6.5	4.1	140
AUG 28.	1025	9827	9827	8.2	30.0	--	6.1	2.8	130
SEP 25.	1050	9827	9827	8.1	18.0	--	8.5	2.4	140

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1145	7.0	--	206	8	<0.020	<0.050	0.72	<0.030
NOV 28.	1120	--	5.7	189	12	--	<0.050	0.52	0.060
DEC 19.	1100	9.0	5.6	--	3	<0.020	<0.050	0.34	0.030
JAN 23.	0945	12	4.7	127	9	1.30	0.110	0.50	0.060
FEB 27.	1050	5.0	4.1	121	5	1.10	<0.050	0.62	0.070
MAR 27.	1035	5.0	--	120	3	1.10	--	0.46	<0.030
APR 24.	1140	4.0	3.0	96	12	0.770	<0.050	0.56	0.050
MAY 22.	0950	6.0	3.1	125	5	0.460	<0.050	0.45	0.030
JUN 12.	1220	5.0	4.0	150	8	0.640	<0.050	0.43	<0.030
JUL 31.	1035	5.0	4.5	162	8	0.250	--	0.51	0.040
AUG 28.	1025	5.0	4.0	--	9	0.220	<0.050	0.50	0.030
SEP 25.	1050	6.0	4.9	155	8	0.730	<0.050	0.60	0.080

07050390 OSAGE CREEK SOUTHWEST OF BERRYVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1145	--	<1	<1	<15	<2	<10	5.4
NOV								
28.	1120	<0.030	<1	<1	<15	<2	10	3.5
DEC								
19.	1100	<0.030	<1	<1	<15	<2	20	2.0
JAN								
23.	0945	--	--	--	--	--	--	3.2
FEB								
27.	1050	<0.030	--	--	--	--	--	2.6
MAR								
27.	1035	0.040	--	--	--	--	--	2.4
APR								
24.	1140	<0.030	--	--	--	--	--	--
MAY								
22.	0950	<0.030	--	--	--	--	--	3.1
JUN								
12.	1220	<0.030	--	--	--	--	--	1.9
JUL								
31.	1035	<0.030	--	--	--	--	--	--
AUG								
28.	1025	<0.030	--	--	--	--	--	3.5
SEP								
25.	1050	<0.030	--	--	--	--	--	--

07050420 OSAGE CREEK WEST OF BERRYVILLE, ARKANSAS

LOCATION.--Lat 36°21'50", long 93°36'26", in SE ¼ SW ¼ sec.26, T.20 N., R.25 W., Carroll County, Hydrologic Unit 11010001, at north end of spur road off Highway 221, and 0.6 mi southwest of waterworks.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1200	9827	9827	8.1	18.0	5.0	--	2.5	180
NOV 28.	1140	9827	9827	8.3	8.0	3.0	10.7	1.5	180
DEC 19.	1130	9827	9827	8.2	0.0	4.0	13.5	1.9	190

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1200	26	--	273	8	0.690	<0.050	0.56	2.55
NOV 28.	1140	--	17	235	6	--	<0.050	0.49	1.80
DEC 19.	1130	39	23	--	6	0.830	0.830	--	2.85

DATE	TIME	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24.	1200	--	<1	<1	<15	<2	<10	5.6
NOV 28.	1140	1.61	<1	<1	<15	<2	<10	3.4
DEC 19.	1130	2.60	<1	<1	17	<2	<10	3.5

07050500 KINGS RIVER NEAR BERRYVILLE, ARKANSAS

LOCATION.--Lat 36°25'36", long 93°37'15", in SE ¼ NE ¼ 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 downstream from Bee Creek, 2.5 mi upstream from Clabber Creek, 5.3 mi northwest of Berryville, and at mile 35.1.

DRAINAGE AREA.--527 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 24.	1120	9827	9827	28	8.3	17.0	2.5	--	1.7
NOV 28.	1055	9827	9827	34	8.5	8.0	1.9	12.4	3.3
DEC 19.	1030	9827	9827	34	8.5	0.0	2.5	15.5	1.0
JAN 23.	0915	9827	9827	34	7.9	9.0	8.0	10.7	1.1
FEB 27.	1015	9827	9827	470	8.1	10.0	4.2	10.3	1.0
MAR 27.	1010	9827	9827	630	8.2	9.0	2.2	11.1	1.7
APR 24.	1115	9827	9827	2200	7.9	18.0	--	9.0	--
MAY 22.	0920	9827	9827	1450	7.9	17.0	7.8	8.4	1.5
JUN 12.	1150	9827	9827	380	8.4	26.0	--	8.2	1.3
JUL 31.	1015	9827	9827	42	8.3	27.0	--	7.8	3.6
AUG 28.	1000	9827	9827	40	8.2	29.0	--	7.8	4.2
SEP 25.	1020	9827	9827	135	8.2	19.0	--	8.9	2.9

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1120	150	14	--	201	4	0.060	<0.050	0.910
NOV 28.	1055	150	--	14	191	4	--	<0.050	1.20
DEC 19.	1030	160	16	13	--	5	0.680	<0.050	1.12
JAN 23.	0915	100	10	4.5	112	8	1.20	<0.050	0.090
FEB 27.	1015	100	5.0	3.8	113	4	1.00	<0.050	0.090
MAR 27.	1010	110	6.0	--	111	4	1.00	--	0.050
APR 24.	1115	82	4.0	2.8	89	9	0.750	<0.050	0.070
MAY 22.	0920	88	5.0	2.8	107	9	0.380	<0.050	0.060
JUN 12.	1150	120	4.0	3.7	127	29	0.240	<0.050	0.060
JUL 31.	1015	140	11	8.9	172	5	0.130	--	0.480
AUG 28.	1000	120	12	8.7	--	5	0.050	0.050	0.550
SEP 25.	1020	140	75	5.9	164	6	0.480	<0.050	0.180

07050500 KINGS RIVER NEAR BERRYVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1120	--	<1	<1	<15	<1	<10	4.9
NOV								
28.	1055	0.970	<1	1	18	2	<10	2.0
DEC								
19.	1030	1.02	<1	<1	<15	<2	<10	4.2
JAN								
23.	0915	--	--	--	--	--	--	2.9
FEB								
27.	1015	<0.030	--	--	--	--	--	1.9
MAR								
27.	1010	0.040	--	--	--	--	--	2.4
APR								
24.	1115	0.050	--	--	--	--	--	--
MAY								
22.	0920	<0.030	--	--	--	--	--	3.0
JUN								
12.	1150	0.060	--	--	--	--	--	2.0
JUL								
31.	1015	0.400	--	--	--	--	--	--
AUG								
28.	1000	0.430	--	--	--	--	--	2.8
SEP								
25.	1020	0.060	--	--	--	--	--	--

07053230 LONG CREEK NEAR DENVER, ARKANSAS

LOCATION.--Lat 36°25'46", long 93°18'22", in SE ¼ SW ¼ sec.34, T.21 N., R.22 W., Carroll County, Hydrologic Unit 11010001, on low-water bridge on county road off State Highway 311, 2.7 mi north of Denver.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1240	9827	9827	8.1	18.0	2.0	--	2.0	190
NOV 28.	1220	9827	9827	8.2	9.0	1.4	12.1	1.7	180
DEC 19.	1215	9827	9827	8.2	2.0	2.5	14.7	1.8	170
JAN 23.	1035	9827	9827	7.8	10.0	7.5	10.4	1.4	120
FEB 27.	1140	9827	9827	7.9	11.0	4.4	10.6	0.8	130
MAR 27.	1125	9827	9827	8.2	11.0	3.0	11.5	1.4	130
APR 24.	1400	9827	9827	7.9	19.0	6.4	9.5	--	100
MAY 22.	1025	9827	9827	7.8	17.0	4.2	9.2	1.5	130
JUN 12.	1315	9827	9827	8.2	24.0	--	12.2	1.5	150
JUL 31.	1120	9827	9827	8.1	24.0	--	9.3	2.9	160
AUG 28.	1110	9827	9827	8.1	28.0	--	8.6	2.9	160
SEP 25.	1135	9827	9827	8.2	19.0	--	9.3	1.6	160

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1240	22	--	237	2	1.00	0.070	0.70	<0.030
NOV 28.	1220	--	16	235	4	--	<0.050	--	0.040
DEC 19.	1215	31	15	--	4	1.40	0.060	--	0.040
JAN 23.	1035	15	5.5	163	7	2.10	<0.050	--	0.060
FEB 27.	1140	7.0	5.0	152	4	1.50	<0.050	--	0.080
MAR 27.	1125	7.0	--	168	2	1.60	--	--	0.040
APR 24.	1400	6.0	4.6	133	10	1.20	<0.050	--	0.050
MAY 22.	1025	8.0	4.8	170	3	1.30	<0.050	--	0.060
JUN 12.	1315	6.0	5.1	172	4	1.30	<0.050	--	<0.030
JUL 31.	1120	11	9.7	215	4	1.40	--	--	0.040
AUG 28.	1110	16	11	--	6	1.50	<0.050	--	0.040
SEP 25.	1135	14	9.9	205	4	1.40	<0.050	--	0.070

07053230 LONG CREEK NEAR DENVER, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24.	1240	--	<1	<1	<15	<2	<10	3.7
NOV 28.	1220	<0.030	<1	<1	<15	<2	<10	2.1
DEC 19.	1215	0.030	<1	1	<15	<2	<10	3.2
JAN 23.	1035	--	--	--	--	--	--	3.4
FEB 27.	1140	0.030	--	--	--	--	--	2.8
MAR 27.	1125	0.030	--	--	--	--	--	2.7
APR 24.	1400	<0.030	--	--	--	--	--	--
MAY 22.	1025	<0.030	--	--	--	--	--	2.6
JUN 12.	1315	0.030	--	--	--	--	--	2.2
JUL 31.	1120	<0.030	--	--	--	--	--	--
AUG 28.	1110	0.050	--	--	--	--	--	2.5
SEP 25.	1135	0.030	--	--	--	--	--	--

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI

LOCATION.--Lat 36°35'46", long 93°18'35", in NW ¼ sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek, and 6.1 mi southwest of Branson.

DRAINAGE AREA.--4,020 mi².

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

COOPERATION.--Records prior to October 1978 are available from U.S. Army Corps of Engineers, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
OCT											
10...	1235	80513	80020	0.0	170	205	8.4	21.0	8.6	99	4.30
10...	1236	80513	80020	10.0	170	205	8.4	20.5	8.5	97	--
10...	1237	80513	80020	20.0	170	205	8.4	20.5	8.3	95	--
10...	1238	80513	80020	30.0	170	205	8.4	20.5	8.2	94	--
10...	1239	80513	80020	40.0	170	206	8.3	20.5	8.1	93	--
10...	1240	80513	80020	45.0	170	209	7.8	19.5	4.6	51	--
10...	1241	80513	80020	48.0	170	217	7.5	18.5	0.6	7	--
10...	1242	80513	80020	50.0	170	217	7.5	18.5	0.3	4	--
10...	1243	80513	80020	52.0	170	215	7.4	17.5	0.2	2	--
10...	1244	80513	80020	53.0	170	215	7.4	17.0	0.2	2	--
10...	1245	80513	80020	54.0	170	215	7.4	16.0	0.2	2	--
10...	1246	80513	80020	57.0	170	214	7.4	15.5	0.2	2	--
10...	1247	80513	80020	60.0	170	219	7.4	15.0	0.2	2	--
10...	1248	80513	80020	63.0	170	210	7.4	14.5	0.2	2	--
10...	1249	80513	80020	67.0	170	210	7.4	13.5	0.6	6	--
10...	1250	80513	80020	70.0	170	208	7.4	13.0	1	10	--
10...	1251	80513	80020	75.0	170	190	7.4	12.5	2.1	20	--
10...	1252	80513	80020	80.0	170	212	7.4	12.0	2.1	20	--
10...	1253	80513	80020	90.0	170	200	7.4	11.5	2.9	27	--
10...	1254	80513	80020	100	170	204	7.4	11.0	3.3	30	--
10...	1255	80513	80020	110	170	210	7.4	10.5	3.4	31	--
10...	1256	80513	80020	120	170	201	7.5	9.5	3.7	33	--
10...	1257	80513	80020	130	170	197	7.5	9.5	3.8	34	--
10...	1258	80513	80020	140	170	209	7.4	9.0	3.1	27	--
10...	1259	80513	80020	150	170	215	7.4	8.5	1.7	15	--
10...	1300	80513	80020	160	170	227	7.4	8.0	0.6	5	--
10...	1301	80513	80020	170	170	232	7.3	7.5	0.2	2	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
OCT											
31...	0700	80513	80020	0.0	169	209	8.2	17.0	8.4	90	4.20
31...	0701	80513	80020	10.0	169	209	8.2	17.0	8.3	89	--
31...	0702	80513	80020	20.0	169	208	8.2	17.0	8.3	88	--
31...	0703	80513	80020	30.0	169	208	8.2	17.0	8.2	88	--
31...	0704	80513	80020	40.0	169	208	8.2	17.5	8.2	87	--
31...	0705	80513	80020	50.0	169	207	8.2	17.5	8.1	87	--
31...	0706	80513	80020	60.0	169	208	8.1	17.0	7.6	81	--
31...	0707	80513	80020	62.0	169	210	7.6	16.0	2.0	21	--
31...	0708	80513	80020	66.0	169	208	7.4	15.0	0.7	7	--
31...	0709	80513	80020	70.0	169	198	7.4	14.0	0.3	3	--
31...	0710	80513	80020	75.0	169	195	7.4	13.0	0.7	7	--
31...	0711	80513	80020	80.0	169	186	7.3	12.0	1.2	12	--
31...	0712	80513	80020	90.0	169	177	7.3	11.5	2.1	20	--
31...	0713	80513	80020	100	169	187	7.4	11.0	2.5	23	--
31...	0714	80513	80020	110	169	189	7.4	10.5	2.8	26	--
31...	0715	80513	80020	120	169	192	7.4	10.0	2.9	27	--
31...	0716	80513	80020	130	169	218	7.4	9.5	2.4	22	--
31...	0717	80513	80020	140	169	203	7.4	9.0	2.1	19	--
31...	0718	80513	80020	150	169	216	7.3	8.5	0.9	8	--
31...	0719	80513	80020	160	169	220	7.3	8.0	0.3	3	--
31...	0720	80513	80020	169	169	231	7.3	7.5	0.2	2	--

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
NOV											
13...	1130	80513	80020	0.0	166	208	7.8	16.0	9.3	98	3.30
13...	1131	80513	80020	10.0	166	208	7.9	16.0	9.1	96	--
13...	1132	80513	80020	20.0	166	208	8.0	16.0	9.0	95	--
13...	1133	80513	80020	30.0	166	208	8.0	16.0	8.9	93	--
13...	1134	80513	80020	40.0	166	208	8.0	16.0	8.6	90	--
13...	1135	80513	80020	50.0	166	209	7.9	15.5	8.0	84	--
13...	1136	80513	80020	60.0	166	208	7.9	15.5	8.0	83	--
13...	1137	80513	80020	70.0	166	208	7.9	15.5	7.7	80	--
13...	1138	80513	80020	76.0	166	209	7.6	15.0	3.6	37	--
13...	1139	80513	80020	77.0	166	203	7.4	13.5	1.3	13	--
13...	1140	80513	80020	80.0	166	201	7.3	13.0	0.7	7	--
13...	1141	80513	80020	85.0	166	195	7.3	12.0	1.2	12	--
13...	1142	80513	80020	90.0	166	194	7.3	11.5	1.5	14	--
13...	1143	80513	80020	100	166	193	7.3	11.0	2.0	19	--
13...	1144	80513	80020	110	166	199	7.3	10.5	2.3	21	--
13...	1145	80513	80020	120	166	196	7.3	10.5	2.4	22	--
13...	1146	80513	80020	130	166	202	7.3	10.0	2.1	19	--
13...	1147	80513	80020	140	166	210	7.3	9.5	1.1	10	--
13...	1148	80513	80020	150	166	216	7.2	9.0	0.4	4	--
13...	1149	80513	80020	160	166	228	7.3	8.5	0.2	2	--
13...	1150	80513	80020	166	166	228	7.3	8.0	0.2	2	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
DEC											
12...	1240	80513	80020	0.0	166	198	7.4	11.0	9.3	86	4.60
12...	1242	80513	80020	10.0	166	198	7.6	11.0	8.9	83	--
12...	1244	80513	80020	20.0	166	198	7.7	11.0	8.7	81	--
12...	1246	80513	80020	30.0	166	197	7.7	11.0	8.6	80	--
12...	1248	80513	80020	40.0	166	198	7.8	11.0	8.6	79	--
12...	1250	80513	80020	50.0	166	198	7.8	11.0	8.5	79	--
12...	1252	80513	80020	60.0	166	196	7.8	11.0	8.5	79	--
12...	1254	80513	80020	70.0	166	198	7.8	10.5	8.5	79	--
12...	1256	80513	80020	80.0	166	196	7.8	10.5	8.5	78	--
12...	1258	80513	80020	90.0	166	195	7.8	10.5	8.5	78	--
12...	1300	80513	80020	100	166	196	7.8	10.5	8.5	79	--
12...	1302	80513	80020	110	166	197	7.8	10.5	8.5	79	--
12...	1304	80513	80020	120	166	195	7.8	10.5	8.3	76	--
12...	1306	80513	80020	130	166	204	7.5	10.0	0.6	5	--
12...	1308	80513	80020	140	166	208	7.4	9.5	0.4	3	--
12...	1310	80513	80020	150	166	216	7.4	9.0	0.3	3	--
12...	1312	80513	80020	160	166	220	7.4	9.0	0.3	3	--
12...	1314	80513	80020	166	166	221	7.4	8.5	0.3	3	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
JAN									
09.	1345	80513	80020	0.0	178	--	--	--	--
09.	1346	80513	80020	3.00	178	--	--	--	--
09.	1350	80513	81213	25.0	178	199	8.0	7.0	11.4
09.	1355	80513	81213	100	178	199	7.8	7.0	10.3

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN									
09.	1345	--	4.80	1	--	--	--	--	--
09.	1350	97	--	--	<5	0.49	0.2	100	32
09.	1355	88	--	--	<5	0.39	0.3	98	31

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	1346	--	--	--	--	--	1.90	<0.100
09.	1350	5.1	86	0.180	<0.020	0.010	--	--
09.	1355	4.9	84	0.180	<0.020	0.010	--	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
MAY									
14.	1430	80513	80020	0.0	195	--	--	--	--
14.	1431	80513	80020	3.00	195	--	--	--	--
14.	1435	80513	81213	25.0	195	208	8.6	16.0	9.9
14.	1440	80513	81213	100	195	198	7.9	11.5	8.2

DATE	TIME	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
MAY									
14.	1430	--	4.10	0	--	--	--	--	--
14.	1435	104	--	--	10	0.55	0.7	99	31
14.	1440	78	--	--	10	0.35	0.7	97	30

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
MAY								
14.	1431	--	--	--	--	--	1.30	<0.100
14.	1435	5.2	90	0.320	0.020	<0.010	--	--
14.	1440	5.3	94	0.440	<0.010	0.010	--	--

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
JUN											
21...	1140	80513	80020	0.0	200	187	8.8	27.5	8.7	114	2.30
21...	1141	80513	80020	10.0	200	187	8.8	27.5	8.6	113	--
21...	1142	80513	80020	14.0	200	190	8.7	27.0	8.5	110	--
21...	1143	80513	80020	16.0	200	193	8.6	26.0	8.3	106	--
21...	1144	80513	80020	18.0	200	195	8.6	25.0	7.9	99	--
21...	1145	80513	80020	19.0	200	197	8.6	24.5	7.4	92	--
21...	1146	80513	80020	20.0	200	208	8.5	23.0	7.3	88	--
21...	1147	80513	80020	21.0	200	206	8.3	22.0	6.6	78	--
21...	1148	80513	80020	22.0	200	207	8.2	21.5	6.3	74	--
21...	1149	80513	80020	26.0	200	209	7.9	20.5	4.5	52	--
21...	1150	80513	80020	27.0	200	212	7.8	19.0	3.6	40	--
21...	1151	80513	80020	30.0	200	212	7.7	18.5	3.9	43	--
21...	1152	80513	80020	35.0	200	214	7.7	17.5	3.6	39	--
21...	1153	80513	80020	40.0	200	219	7.6	17.0	3.6	38	--
21...	1154	80513	80020	50.0	200	209	7.6	16.0	4.3	45	--
21...	1155	80513	80020	60.0	200	198	7.6	15.5	4.6	48	--
21...	1156	80513	80020	70.0	200	195	7.7	15.0	4.9	50	--
21...	1157	80513	80020	80.0	200	182	7.6	14.5	5.6	57	--
21...	1158	80513	80020	90.0	200	160	7.6	14.0	6.6	66	--
21...	1159	80513	80020	100	200	159	7.6	13.5	6.6	65	--
21...	1200	80513	80020	110	200	160	7.6	13.0	6.9	68	--
21...	1201	80513	80020	120	200	163	7.6	13.0	6.8	67	--
21...	1202	80513	80020	130	200	165	7.6	12.5	6.7	65	--
21...	1203	80513	80020	140	200	170	7.6	12.5	6.6	64	--
21...	1204	80513	80020	150	200	180	7.6	12.5	6.6	64	--
21...	1205	80513	80020	160	200	184	7.6	12.0	6.5	62	--
21...	1206	80513	80020	170	200	195	7.6	11.5	6.2	59	--
21...	1207	80513	80020	180	200	206	7.6	11.0	5.3	50	--
21...	1208	80513	80020	190	200	206	7.5	10.5	4.1	38	--
21...	1209	80513	80020	200	200	214	7.5	10.5	3.1	29	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
JUL											
16...	1250	80513	80020	0.0	180	186	8.6	27.5	7.8	102	2.50
16...	1251	80513	80020	10.0	180	186	8.5	26.5	7.5	96	--
16...	1252	80513	80020	20.0	180	187	8.5	26.5	7.1	91	--
16...	1253	80513	80020	25.0	180	192	8.2	26.0	5.9	75	--
16...	1254	80513	80020	26.0	180	206	7.8	24.5	2.5	31	--
16...	1255	80513	80020	27.0	180	224	7.6	23.0	0.9	11	--
16...	1256	80513	80020	29.0	180	227	7.4	22.0	0.4	5	--
16...	1257	80513	80020	30.0	180	229	7.4	21.5	0.3	3	--
16...	1258	80513	80020	31.0	180	230	7.4	20.0	0.1	1	--
16...	1259	80513	80020	33.0	180	232	7.4	19.5	0.2	2	--
16...	1300	80513	80020	35.0	180	231	7.4	18.5	0.3	3	--
16...	1301	80513	80020	40.0	180	231	7.4	18.0	0.5	5	--
16...	1302	80513	80020	45.0	180	232	7.4	17.0	1.1	12	--
16...	1303	80513	80020	50.0	180	221	7.5	16.5	1.9	20	--
16...	1304	80513	80020	60.0	180	212	7.5	16.0	2.6	27	--
16...	1305	80513	80020	70.0	180	201	7.5	15.0	3.5	36	--
16...	1306	80513	80020	80.0	180	192	7.5	14.5	4.2	42	--
16...	1307	80513	80020	90.0	180	181	7.5	14.0	4.8	48	--
16...	1308	80513	80020	100	180	168	7.5	14.0	5.4	54	--
16...	1309	80513	80020	110	180	160	7.5	13.5	5.5	54	--
16...	1310	80513	80020	120	180	157	7.5	13.0	5.6	55	--
16...	1311	80513	80020	130	180	157	7.4	13.0	5.8	57	--
16...	1312	80513	80020	140	180	156	7.4	12.5	5.7	55	--
16...	1313	80513	80020	150	180	166	7.4	12.5	5.5	53	--
16...	1314	80513	80020	160	180	190	7.4	12.0	4.2	40	--
16...	1315	80513	80020	170	180	210	7.4	11.5	3.0	28	--
16...	1316	80513	80020	180	180	224	7.3	11.0	0.6	6	--

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
AUG											
01...	0900	80513	80020	0.0	178	186	8.7	27.0	8.3	107	2.90
01...	0901	80513	80020	3.00	178	186	8.7	27.5	8.2	107	--
01...	0902	80513	80020	10.0	178	187	8.7	27.5	8.1	106	--
01...	0904	80513	80020	18.0	178	189	8.6	27.0	8.1	105	--
01...	0905	80513	80020	20.0	178	196	8.3	26.0	5.6	71	--
01...	0906	80513	80020	23.0	178	203	7.9	25.0	2.8	35	--
01...	0908	80513	81213	25.0	178	210	7.7	24.0	1.3	16	--
01...	0910	80513	80020	29.0	178	219	7.6	23.0	0.2	2	--
01...	0911	80513	80020	30.0	178	223	7.5	22.0	0.1	1	--
01...	0912	80513	80020	31.0	178	229	7.5	21.0	0.1	1	--
01...	0913	80513	80020	33.0	178	231	7.5	20.0	0.1	1	--
01...	0914	80513	80020	35.0	178	232	7.5	19.0	0.1	1	--
01...	0915	80513	80020	38.0	178	236	7.5	18.0	0.1	1	--
01...	0916	80513	80020	40.0	178	233	7.5	17.5	0.1	1	--
01...	0917	80513	80020	50.0	178	225	7.5	16.5	0.7	7	--
01...	0918	80513	80020	60.0	178	215	7.5	16.0	1.7	18	--
01...	0919	80513	80020	70.0	178	201	7.5	15.0	2.8	29	--
01...	0920	80513	80020	80.0	178	196	7.5	14.5	3.2	32	--
01...	0921	80513	80020	90.0	178	190	7.6	14.5	3.6	36	--
01...	0922	80513	81213	100	178	187	7.5	14.0	3.9	39	--
01...	0923	80513	80020	110	178	179	7.5	13.5	4.4	43	--
01...	0924	80513	80020	120	178	157	7.5	13.0	5.0	49	--
01...	0925	80513	80020	130	178	155	7.5	13.0	5.0	49	--
01...	0926	80513	80020	140	178	160	7.5	12.5	4.8	46	--
01...	0927	80513	80020	150	178	172	7.5	12.5	3.9	38	--
01...	0928	80513	80020	160	178	195	7.4	12.0	2.3	22	--
01...	0929	80513	80020	170	178	214	7.4	12.0	0.2	2	--
01...	0930	80513	80020	178	178	216	7.4	11.5	0.2	2	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
AUG								
01...	0900	0	--	--	--	--	--	--
01...	0908	--	<5	0.36	1.4	96	30	5.1
01...	0922	--	<5	0.39	0.9	93	30	4.4

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG							
01...	0901	--	--	--	--	2.50	0.200
01...	0908	88	0.030	<0.020	0.010	--	--
01...	0922	82	0.610	<0.020	0.010	--	--

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
AUG											
20...	1110	80513	80020	0.0	178	196	8.5	28.0	8.5	112	3.80
20...	1112	80513	80020	10.0	178	195	8.5	28.0	8.3	109	--
20...	1114	80513	80020	20.0	178	194	8.5	27.5	8.2	107	--
20...	1116	80513	80020	23.0	178	195	8.3	26.0	7.0	89	--
20...	1118	80513	80020	25.0	178	204	7.9	25.5	4.4	55	--
20...	1120	80513	80020	27.0	178	213	7.5	24.0	1.4	17	--
20...	1122	80513	80020	29.0	178	218	7.4	23.5	0.8	10	--
20...	1124	80513	80020	30.0	178	220	7.4	23.5	0.6	7	--
20...	1126	80513	80020	32.0	178	227	7.3	22.5	0.3	4	--
20...	1128	80513	80020	35.0	178	239	7.3	21.5	0.2	2	--
20...	1130	80513	80020	36.0	178	241	7.3	20.0	0.2	2	--
20...	1132	80513	80020	37.0	178	239	7.3	19.5	0.2	2	--
20...	1134	80513	80020	40.0	178	236	7.3	19.0	0.2	2	--
20...	1136	80513	80020	45.0	178	235	7.3	18.0	0.2	2	--
20...	1138	80513	80020	50.0	178	230	7.2	17.5	0.1	1	--
20...	1140	80513	80020	60.0	178	221	7.2	16.5	0.4	4	--
20...	1142	80513	80020	70.0	178	209	7.3	16.0	1.6	17	--
20...	1144	80513	80020	80.0	178	200	7.3	15.5	2.3	24	--
20...	1146	80513	80020	90.0	178	188	7.3	15.0	3.1	32	--
20...	1148	80513	80020	100	178	189	7.3	14.5	3.1	31	--
20...	1150	80513	80020	110	178	182	7.3	14.5	3.5	35	--
20...	1152	80513	80020	120	178	166	7.3	14.0	4.1	41	--
20...	1154	80513	80020	130	178	160	7.2	13.5	4.2	41	--
20...	1156	80513	80020	140	178	163	7.2	13.0	3.8	37	--
20...	1158	80513	80020	150	178	177	7.1	13.0	2.8	27	--
20...	1200	80513	80020	160	178	192	7.1	12.5	1.0	10	--
20...	1202	80513	80020	170	178	211	7.1	12.5	0.3	3	--
20...	1204	80513	80020	178	178	224	7.2	11.5	0.2	2	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
SEP											
05...	1135	80513	80020	0.0	178	198	8.6	29.5	7.7	104	3.30
05...	1136	80513	80020	10.0	178	198	8.6	29.5	7.6	102	--
05...	1137	80513	80020	20.0	178	200	8.6	28.5	7.1	94	--
05...	1138	80513	80020	22.0	178	205	8.3	27.0	5.1	66	--
05...	1139	80513	80020	24.0	178	210	7.9	26.0	2.8	35	--
05...	1140	80513	80020	26.0	178	215	7.7	25.0	1.7	21	--
05...	1141	80513	80020	30.0	178	231	7.6	24.0	0.6	7	--
05...	1142	80513	80020	32.0	178	227	7.5	23.0	0.2	2	--
05...	1143	80513	80020	33.0	178	234	7.5	22.5	0.1	1	--
05...	1144	80513	80020	34.0	178	243	7.4	21.5	0.1	1	--
05...	1145	80513	80020	35.0	178	250	7.4	20.5	0.1	1	--
05...	1146	80513	80020	38.0	178	251	7.4	19.5	0.1	1	--
05...	1147	80513	80020	40.0	178	251	7.4	19.0	0.1	1	--
05...	1148	80513	80020	45.0	178	242	7.5	18.0	0.1	1	--
05...	1149	80513	80020	50.0	178	241	7.5	17.5	0.1	1	--
05...	1150	80513	80020	60.0	178	229	7.5	16.5	0.1	1	--
05...	1153	80513	80020	70.0	178	219	7.5	16.0	0.4	4	--
05...	1158	80513	80020	80.0	178	212	7.5	15.5	0.8	8	--
05...	1200	80513	80020	90.0	178	201	7.5	15.0	2.0	20	--
05...	1203	80513	80020	100	178	184	7.5	14.5	2.7	27	--
05...	1206	80513	80020	110	178	195	7.5	14.0	2.3	23	--
05...	1208	80513	80020	120	178	180	7.5	13.5	3.0	30	--
05...	1209	80513	80020	130	178	166	7.4	13.5	3.5	34	--
05...	1210	80513	80020	140	178	169	7.4	13.0	3.1	30	--
05...	1211	80513	80020	150	178	174	7.4	13.0	1.9	19	--
05...	1212	80513	80020	160	178	190	7.3	12.5	0.2	2	--
05...	1213	80513	80020	170	178	213	7.3	12.0	0.1	1	--
05...	1214	80513	80020	178	178	224	7.3	11.5	0.1	1	--

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
SEP											
17...	0930	80513	80020	0.0	175	205	8.3	26.0	7.5	95	3.60
17...	0931	80513	80513	10.0	175	205	8.5	26.0	7.3	92	--
17...	0932	80513	80020	20.0	175	205	8.5	26.0	7.0	89	--
17...	0933	80513	80020	27.0	175	220	8.0	25.0	1.6	20	--
17...	0934	80513	80020	30.0	175	225	7.8	24.5	0.6	7	--
17...	0935	80513	80020	32.0	175	233	7.9	23.5	0.3	4	--
17...	0936	80513	80020	34.0	175	240	7.7	22.5	0.2	2	--
17...	0937	80513	80020	35.0	175	248	7.6	21.0	0.2	2	--
17...	0938	80513	80020	37.0	175	254	7.6	20.5	0.2	2	--
17...	0939	80513	80020	40.0	175	256	7.5	19.5	0.1	1	--
17...	0940	80513	80020	45.0	175	248	7.5	18.5	0.2	2	--
17...	0941	80513	80020	50.0	175	243	7.5	17.5	0.1	1	--
17...	0942	80513	80020	60.0	175	234	7.5	16.5	0.1	1	--
17...	0943	80513	80020	70.0	175	226	7.5	16.0	0.1	1	--
17...	0944	80513	80020	80.0	175	217	7.5	15.5	0.5	5	--
17...	0945	80513	80020	90.0	175	207	7.5	15.0	1.1	11	--
17...	0946	80513	80020	100	175	198	7.5	14.5	1.7	17	--
17...	0947	80513	80020	110	175	183	7.5	14.5	2.4	24	--
17...	0948	80513	80020	120	175	174	7.5	14.0	2.9	29	--
17...	0949	80513	80020	130	175	170	7.5	13.5	2.9	29	--
17...	0950	80513	80020	140	175	171	7.5	13.5	2.3	23	--
17...	0955	80513	80020	150	175	180	7.4	13.0	1.3	13	--
17...	0956	80513	80020	160	175	192	7.3	12.5	0.2	2	--
17...	0957	80513	80020	170	175	204	7.4	12.5	0.2	2	--
17...	0958	80513	80020	175	175	225	7.4	12.0	0.2	2	--

07053450 WHITE RIVER BELOW TABLE ROCK DAM, NEAR BRANSON, MISSOURI

LOCATION.--Lat 36°35'40", long 93°18'33", in NW ¼ sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek and 6.1 mi southwest of Branson.

DRAINAGE AREA.--4,020 mi².

PERIOD OF RECORD.--October 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT								
10...	1215	80513	80020	221	7.7	10.5	5.7	52
31...	0735	80513	80020	202	7.8	10.0	7.5	67
NOV								
13...	1210	80513	80020	207	7.6	10.5	6.8	62
28...	1255	80513	80020	202	7.1	10.5	7.5	69
DEC								
12...	1325	80513	80020	211	7.7	10.0	10.8	97
JAN								
09...	1415	80513	81213	204	8.0	9.0	12.0	107
MAY								
14...	1510	80513	81213	205	7.8	12.0	8.8	84
JUN								
21...	1115	80513	80020	186	7.7	12.5	6.5	62
JUL								
16...	1230	80513	80020	179	7.4	14.0	7.8	77
AUG								
01...	0830	80513	81213	182	7.4	14.0	5.4	54
20...	1050	80513	80020	183	5.6	14.5	7.1	71
SEP								
05...	1110	80513	80020	191	7.0	14.5	4.9	49
17...	1030	80513	80020	191	7.9	14.0	6.3	62

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN							
09.	1415	0	<5	0.58	0.2	100	32
MAY							
14.	1510	57	30	3.2	0.7	91	28
AUG							
01.	0830	4	<5	0.67	0.9	91	29

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)
JAN						
09.	1415	5.6	90	0.180	<0.020	0.010
MAY						
14.	1510	5.2	98	0.490	0.030	0.020
AUG						
01.	0830	4.4	76	0.510	0.030	0.030

07055565 CROOKED CREEK AT HARRISON, ARKANSAS

LOCATION.--Lat 36°14'04", long 93°05'26", in SW ¼ SE ¼ sec.3, T.18 N., R.20 W., Boone County, Hydrologic Unit 11110003, at bridge on U.S. Highway 65 bypass in Harrison.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1315	9827	9827	7.7	17.0	4.0	--	2.0	180
NOV 28.	1300	9827	9827	7.9	10.0	2.8	10.8	1.9	180
DEC 19.	1305	9827	9827	8.0	6.0	2.5	13.2	1.4	190
JAN 23.	1120	9827	9827	7.7	12.0	15	9.9	1.1	150
FEB 27.	1220	9827	9827	7.9	13.0	4.6	12.1	0.9	130
MAR 27.	1215	9827	9827	8.1	13.0	2.4	13.7	2.3	140
APR 24.	1450	9827	9827	7.8	19.0	4.1	10.6	--	130
MAY 22.	1100	9827	9827	7.6	16.0	5.2	9.9	1.4	130
JUN 12.	1400	9827	9827	7.8	23.0	--	9.1	1.0	160
JUL 31.	1200	9827	9827	7.9	22.0	--	10.0	2.6	180
AUG 28.	1150	9827	9827	7.8	25.0	--	9.0	2.8	180
SEP 25.	1220	9827	9827	7.8	18.0	--	9.3	1.7	180

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1315	5.0	--	213	7	1.10	<0.050	0.47	0.050
NOV 28.	1300	--	8.0	199	8	--	<0.050	0.34	0.060
DEC 19.	1305	5.0	7.8	--	4	1.40	<0.050	0.70	0.050
JAN 23.	1120	11	5.6	180	19	2.00	0.120	0.56	0.070
FEB 27.	1220	6.0	5.5	161	4	1.10	<0.050	0.70	0.080
MAR 27.	1215	4.0	--	150	3	1.30	--	0.47	0.030
APR 24.	1450	4.0	5.3	154	8	1.30	<0.050	0.88	0.050
MAY 22.	1100	7.0	4.7	168	4	1.10	<0.050	0.54	0.040
JUN 12.	1400	5.0	5.6	183	2	1.30	<0.050	0.48	<0.030
JUL 31.	1200	3.0	5.7	207	6	1.50	--	0.45	0.050
AUG 28.	1150	5.0	6.2	--	12	1.50	<0.050	0.47	0.070
SEP 25.	1220	3.0	6.8	212	9	1.40	<0.050	0.66	0.100

07055565 CROOKED CREEK AT HARRISON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1315	--	<1	<1	<15	<2	<10	4.0
NOV								
28.	1300	<0.030	<1	1	<15	<2	10	2.3
DEC								
19.	1305	0.030	<1	<1	<15	<2	<10	3.6
JAN								
23.	1120	--	--	--	--	--	--	4.3
FEB								
27.	1220	<0.030	--	--	--	--	--	1.7
MAR								
27.	1215	0.040	--	--	--	--	--	3.4
APR								
24.	1450	<0.030	--	--	--	--	--	--
MAY								
22.	1100	<0.030	--	--	--	--	--	4.4
JUN								
12.	1400	<0.030	--	--	--	--	--	1.7
JUL								
31.	1200	<0.030	--	--	--	--	--	--
AUG								
28.	1150	<0.030	--	--	--	--	--	3.8
SEP								
25.	1220	<0.030	--	--	--	--	--	--

07055569 CROOKED CREEK NEAR HARRISON, ARKANSAS

LOCATION.--Lat 36°14'38", long 93°04'38", in SE ¼ NW ¼ sec.2, T.18 N., R.20 W., Boone County, Hydrologic Unit 11110003, at bridge on U.S. Highway 65 near Harrison.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1335	9827	9827	8.1	17.0	3.5	--	1.9	180
NOV 28.	1315	9827	9827	8.4	9.0	2.5	13.3	2.1	190
DEC 19.	1330	9827	9827	8.2	4.0	3.5	13.9	2.6	190
JAN 23.	1140	9827	9827	7.7	12.0	6.0	10.0	1.5	150
FEB 27.	1235	9827	9827	7.9	--	4.4	12.5	1.0	140
MAR 27.	1230	9827	9827	8.5	13.0	2.6	15.8	1.7	140
APR 24.	1200	9827	9827	8.0	20.0	4.4	12.2	--	130
MAY 22.	1115	9827	9827	7.7	16.0	5.4	9.5	1.4	140
JUN 12.	1420	9827	9827	7.9	23.0	--	8.3	0.8	160
JUL 31.	1220	9827	9827	8.0	23.0	--	8.5	1.9	180
AUG 28.	1210	9827	9827	8.1	26.0	--	7.8	1.8	180
SEP 25.	1240	9827	9827	8.0	19.0	--	9.0	1.0	170

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1335	18	--	269	5	3.90	0.290	0.68	0.980
NOV 28.	1315	--	18	252	6	--	<0.050	0.54	0.700
DEC 19.	1330	20	20	--	5	3.90	<0.050	0.45	0.600
JAN 23.	1140	16	7.9	190	8	2.70	<0.050	0.61	0.280
FEB 27.	1235	12	8.4	183	7	2.30	<0.050	0.63	0.370
MAR 27.	1230	9.0	--	153	4	1.50	--	0.34	0.190
APR 24.	1200	5.0	6.3	150	10	1.30	<0.050	0.88	<0.100
MAY 22.	1115	9.0	5.6	175	6	1.20	0.080	0.74	0.130
JUN 12.	1420	13	8.3	198	3	1.50	<0.050	0.57	0.180
JUL 31.	1220	20	15	250	8	2.70	--	0.47	0.650
AUG 28.	1210	27	15	--	12	2.40	<0.050	0.45	0.650
SEP 25.	1240	14	13	236	7	2.90	<0.050	0.62	0.730

07055569 CROOKED CREEK NEAR HARRISON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24.	1335	--	<1	<1	<15	<2	10	5.1
NOV 28.	1315	0.620	<1	<1	18	<2	<10	2.1
DEC 19.	1330	0.480	<1	1	<15	<2	<10	3.1
JAN 23.	1140	--	--	--	--	--	--	3.2
FEB 27.	1235	0.300	--	--	--	--	--	1.8
MAR 27.	1230	0.140	--	--	--	--	--	4.1
APR 24.	1200	0.030	--	--	--	--	--	--
MAY 22.	1115	0.040	--	--	--	--	--	4.2
JUN 12.	1420	0.150	--	--	--	--	--	1.2
JUL 31.	1220	0.530	--	--	--	--	--	--
AUG 28.	1210	0.530	--	--	--	--	--	3.8
SEP 25.	1240	0.550	--	--	--	--	--	--

07055608 CROOKED CREEK AT YELLVILLE, ARKANSAS

LOCATION.--Lat 33°13'23", long 92°40'47", in NW ¼ NE ¼ sec.9, T.18 N., R.16 W., Marion County, Hydrologic Unit 11010003, on left bank at bridge on State Highway 14 at Yellville.

DRAINAGE AREA.--406 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements, water years 1978-88, and annual maximum, water years 1985-88. July 1988 to current year. Fragmentary record 1939-43, in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 541.60 ft above National Geodetic Vertical Datum of 1929. Oct. 7, 1939 to June 30, 1943, nonrecording gage at present site at datum 5.59 ft higher. March 1978 to Feb. 23, 1984, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair, and poor below 2.0 ft³/s because of loss of flow to underground strata at extreme low flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,700 ft³/s May 3, 1990, gage height, 25.20 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 27, 1942, reached a stage of 25.7 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
May 03	1330	*38,700	*25.20	No other peak greater than base discharge.			

REVISIONS.--The maximum discharge for the water year 1989 has been revised to 10,900 ft³/s, Feb. 14, 1989, gage height, 15.35 ft.

No flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.00	.00	.00	721	397	1260	1810	1480	62	7.3	.00
2	.93	.00	.00	.00	1660	611	1100	5560	1380	56	6.7	.00
3	.00	.00	.00	.00	781	527	947	22100	1280	49	6.0	.00
4	.00	.00	.00	.00	949	533	846	7350	1180	44	5.9	.00
5	.00	.00	.00	.00	597	446	773	4300	1120	39	8.0	.00
6	.00	.00	.00	.00	496	393	716	3150	1200	35	7.2	.00
7	.00	.00	.00	.00	423	407	655	2550	1140	38	4.3	.00
8	.00	.00	.00	.00	285	585	604	2120	1110	32	3.2	5.2
9	.00	.00	.00	.00	179	663	581	1850	1080	27	2.3	17
10	.00	.00	.00	.00	194	602	797	1570	1010	24	2.1	12
11	.00	.00	.00	.00	191	457	1000	1380	980	23	1.9	8.1
12	.00	.00	.00	.00	185	1680	826	1610	947	22	2.8	8.0
13	.00	.00	.00	.00	224	1500	736	1570	748	21	12	7.2
14	.00	.00	.00	.00	187	1090	685	1320	261	21	37	8.6
15	.00	.00	.00	.00	265	2990	631	1250	268	20	25	1.7
16	.00	.00	.00	e5	372	2020	606	1190	284	18	29	.00
17	.00	.00	.00	e15	397	1390	932	1230	244	16	55	.00
18	.00	.00	.00	e80	355	1110	1400	1100	214	16	25	.00
19	.00	.00	.00	e300	329	918	1200	1100	183	14	19	.00
20	.00	.00	.00	e1400	288	723	1630	1100	166	14	17	.00
21	.00	.00	.00	e800	268	651	2500	1190	153	24	15	11
22	.00	.00	.00	e400	323	607	1930	1330	244	42	13	45
23	.00	6.4	.00	e250	339	560	1650	1220	188	22	12	32
24	.00	2.6	.00	e190	341	530	1410	1010	135	17	11	18
25	.00	.00	.00	171	314	510	1250	629	116	14	10	14
26	.00	.00	.00	114	298	479	1130	943	117	14	8.0	12
27	.00	.00	.00	57	273	448	1090	1940	116	17	5.1	10
28	.00	.00	.00	68	276	529	1130	2030	96	14	1.6	8.9
29	.00	.00	.00	100	---	793	1030	1660	81	12	.00	12
30	.00	.00	.00	68	---	1240	950	1500	70	11	.00	28
31	.00	---	.00	66	---	1430	---	1680	---	9.2	.00	---
TOTAL	2.03	9.00	0.00	4084.00	11510	26819	31995	80342	17591	787.2	352.40	258.70
MEAN	.065	.30	.000	132	411	865	1066	2592	586	25.4	11.4	8.62
MAX	1.1	6.4	.00	1400	1660	2990	2500	22100	1480	62	55	45
MIN	.00	.00	.00	.00	179	393	581	629	70	9.2	.00	.00
AC-FT	4.0	18	.00	8100	22830	53200	63460	159400	34890	1560	699	513

CAL YR 1989 TOTAL 95031.26 MEAN 260 MAX 4300 MIN .00 AC-FT 188500
WTR YR 1990 TOTAL 173750.33 MEAN 476 MAX 22100 MIN .00 AC-FT 344600

e Estimated

07055608 CROOKED CREEK AT YELLVILLE, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT 24...	1100	9827	9827	--	--	7.9	17.0	0.50	8.1
NOV 28...	1110	9827	9827	--	--	8.2	9.0	0.70	10.6
DEC 12...	1100	9827	9827	--	--	8.3	3.0	0.50	13.0
JAN 23...	1210	9827	9827	250	--	8.1	10.0	3.0	12.0
FEB 27...	1210	9827	9827	--	294	--	10.0	1.8	13.0
MAR 27...	1230	9827	9827	--	448	--	10.0	1.4	--
APR 24...	1245	9827	9827	--	1410	8.3	20.0	3.2	10.5
MAY 22...	1130	9827	9827	--	1330	8.3	17.0	2.4	10.5
JUN 19...	1230	9827	9827	--	185	8.1	29.0	--	7.5
JUL 31...	1500	9827	9827	--	10	8.4	28.0	--	11.7
AUG 28...	1250	9827	9827	--	1.7	8.3	30.0	--	9.2
SEP 25...	1445	9827	9827	--	18	8.6	23.0	--	12.6

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 24...	1100	1.9	170	8.0	7.7	197	<1	0.090	<0.050
NOV 28...	1110	1.5	170	11	9.1	182	2	<0.020	<0.050
DEC 12...	1100	2.5	200	11	9.2	194	1	<0.020	0.110
JAN 23...	1210	0.6	160	11	5.4	178	4	1.20	<0.050
FEB 27...	1210	0.8	160	6.0	5.2	175	2	0.320	<0.050
MAR 27...	1230	2.6	170	5.0	5.4	--	1	0.700	<0.050
APR 24...	1245	0.6	--	7.0	3.9	175	6	0.670	<0.050
MAY 22...	1130	1.7	160	6.0	4.4	182	3	0.450	<0.050
JUN 19...	1230	0.4	--	4.0	5.1	--	4	0.580	<0.050
JUL 31...	1500	5.0	130	4.0	6.1	152	4	0.190	--
AUG 28...	1250	4.4	130	5.0	6.4	138	3	0.040	<0.050
SEP 25...	1445	0.9	140	5.0	7.2	158	1	0.160	<0.050

07055608 CROOKED CREEK AT YELLVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
24...	1100	<0.030	0.040	<1	<1	<15	<2	<10	--
NOV									
28...	1110	<0.030	<0.030	<1	1	<15	<2	<10	--
DEC									
12...	1100	<0.030	<0.030	--	1	<15	<2	<10	1.0
JAN									
23...	1210	0.040	--	--	--	--	--	--	23
FEB									
27...	1210	0.050	<0.030	--	--	--	--	--	3.6
MAR									
27...	1230	<0.030	--	--	--	--	--	--	0.9
APR									
24...	1245	0.040	<0.030	--	--	--	--	--	4.7
MAY									
22...	1130	<0.030	<0.030	--	--	--	--	--	3.4
JUN									
19...	1230	<0.030	<0.030	--	--	--	--	--	2.3
JUL									
31...	1500	<0.030	<0.030	--	--	--	--	--	--
AUG									
28...	1250	<0.030	<0.030	--	--	--	--	--	1.6
SEP									
25...	1445	0.090	<0.030	--	--	--	--	--	3.7

07056000 BUFFALO RIVER NEAR ST. JOE, ARKANSAS

LOCATION.--Lat 35°59'02", long 92°44'44", in SW ¼ SW ¼ 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 downstream from Mill Creek, 5.4 mi upstream from Bear Creek, 4.5 mi southeast of St. Joe, and at mile 58.3.

DRAINAGE AREA.--829 mi^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 above National Geodetic Vertical Datum of 1929. Prior to Mar. 1, 1940, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--51 years, 1,036 ft^3/s, 16.97 in/yr, 750,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 158,000 ft^3/s Dec. 3, 1982, gage height, 53.75 ft from rating curve extended above 91,000 ft^3/s; minimum, 6.6 ft^3/s Sept. 16, 17, 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 50.5 ft in August 1915, from information by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	0700	14,200	16.06	Apr. 18	0100	22,900	20.17
Feb. 02	0400	17,200	17.58	Apr. 21	0400	13,600	15.73
Mar. 15	1500	21,200	19.44	May 03	2000	*98,800	*42.10

Minimum discharge, 26 ft^3/s Oct. 26-27, gage height, 2.29 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	38	31	32	2980	1700	2990	2370	3170	145	117	54
2	41	37	31	32	13100	2210	2310	15800	2330	138	112	51
3	42	35	30	34	4730	1890	1870	65900	1790	129	106	50
4	41	34	30	35	2960	1560	1610	38200	1340	124	105	48
5	41	33	31	34	2210	1320	1420	10700	1030	111	112	46
6	40	31	31	36	1670	1150	1250	6290	843	105	113	44
7	37	31	30	37	1340	1620	1090	4340	693	99	107	42
8	35	31	30	39	1100	5930	969	3210	572	97	98	43
9	34	31	30	39	970	4860	887	2460	486	95	94	38
10	33	31	31	38	1200	3170	1660	1950	425	94	91	37
11	32	30	30	37	1510	2400	3510	1550	390	89	88	39
12	31	31	29	36	1210	6370	2360	1460	387	85	85	44
13	31	31	29	36	1040	6710	1900	1520	384	82	165	44
14	30	32	30	36	924	4150	1670	1250	384	82	156	44
15	29	30	29	37	1030	15800	1550	1040	384	79	184	42
16	29	28	29	38	2530	7810	1700	933	384	79	156	41
17	28	29	29	49	1920	4290	8840	1160	384	78	127	40
18	27	29	30	46	1450	2970	12700	993	384	78	109	39
19	28	30	31	984	1210	2410	5290	1590	268	77	102	38
20	28	30	31	10000	1030	2050	5750	9960	192	76	95	38
21	28	29	31	e4000	915	1730	11500	7390	182	75	89	61
22	28	31	31	e2300	1150	1510	9440	5420	218	89	83	57
23	29	30	31	e1300	1820	1300	6310	3220	235	80	79	53
24	28	31	32	e900	1500	1130	4310	2160	226	83	75	64
25	28	33	32	618	1220	1050	3110	1550	208	84	72	71
26	27	33	30	523	1050	971	2450	1750	194	88	70	72
27	27	35	30	459	959	903	2480	6460	188	83	67	71
28	28	32	30	412	918	972	3020	5670	178	82	66	67
29	28	32	30	382	---	1790	2550	3280	166	102	63	64
30	29	32	31	363	---	3160	2060	2460	156	143	59	64
31	32	---	32	354	---	4170	---	4190	---	130	56	---
TOTAL	993	950	942	23266	55646	99056	108556	216226	18171	2981	3101	1506
MEAN	32.0	31.7	30.4	751	1987	3195	3619	6975	606	96.2	100	50.2
MAX	44	38	32	10000	13100	15800	12700	65900	3170	145	184	72
MIN	27	28	29	32	915	903	887	933	156	75	56	37
AC-FT	1970	1880	1870	46150	110400	196500	215300	428900	36040	5910	6150	2990
CFSM	.04	.04	.04	.91	2.40	3.85	4.36	8.41	.73	.12	.12	.06
IN.	.04	.04	.04	1.04	2.50	4.44	4.87	9.70	.82	.13	.14	.07

CAL YR 1989 TOTAL 349653 MEAN 958 MAX 25800 MIN 27 AC-FT 693500 CFSM 1.16 IN. 15.69
WTR YR 1990 TOTAL 531394 MEAN 1456 MAX 65900 MIN 27 AC-FT 1054000 CFSM 1.76 IN. 23.85

e Estimated

07056000 BUFFALO RIVER NEAR ST. JOE, ARKANSAS--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 were furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT									
24...	1230	9827	9827	--	29	8.2	17.0	1.0	10.0
NOV									
28...	1245	9827	9827	--	32	8.3	10.0	0.90	11.4
DEC									
12...	1215	9827	9827	--	31	8.3	4.0	0.50	13.2
JAN									
23...	1300	9827	9827	1300	--	8.0	9.0	7.0	10.6
FEB									
27...	1345	9827	9827	--	954	--	10.0	3.7	11.6
MAR									
27...	1315	9827	9827	--	905	--	11.0	2.0	--
APR									
24...	1345	9827	9827	--	4170	8.0	18.0	25	9.0
MAY									
22...	1230	9827	9827	--	5170	7.9	17.0	25	8.7
JUN									
19...	1330	9827	9827	--	204	8.2	29.0	--	9.0
JUL									
31...	1400	9827	9827	--	129	8.5	28.0	--	10.5
AUG									
28...	1345	9827	9827	--	66	8.5	30.0	--	10.1
SEP									
25...	1345	9827	9827	--	73	8.3	22.0	--	10.0

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT									
24...	1230	0.4	130	5.0	2.7	152	1	<0.020	<0.050
NOV									
28...	1245	1.8	140	7.0	4.5	133	2	<0.020	<0.050
DEC									
12...	1215	0.7	140	6.0	4.1	156	1	<0.020	<0.050
JAN									
23...	1300	0.7	80	7.0	4.2	95	5	0.540	<0.050
FEB									
27...	1345	0.7	74	4.0	2.2	88	3	0.090	<0.050
MAR									
27...	1315	1.0	90	4.0	2.7	--	<1	0.150	0.050
APR									
24...	1345	1.1	--	6.0	1.8	91	18	0.150	<0.050
MAY									
22...	1230	0.5	62	5.0	2.0	85	18	0.120	<0.050
JUN									
19...	1330	3.5	--	2.0	2.5	--	3	0.090	<0.050
JUL									
31...	1400	1.7	130	2.0	3.3	145	3	0.090	--
AUG									
28...	1345	3.1	120	3.0	3.4	138	4	<0.020	<0.050
SEP									
25...	1345	0.4	120	4.0	3.5	134	4	0.050	<0.050

07056000 BUFFALO RIVER NEAR ST. JOE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
24...	1230	<0.030	<0.030	<1	<1	<15	<2	<10	--
NOV									
28...	1245	<0.030	<0.030	<1	<1	<15	<2	<10	--
DEC									
12...	1215	<0.030	<0.030	--	<1	<15	2	<10	1.1
JAN									
23...	1300	0.040	--	--	--	--	--	--	2.5
FEB									
27...	1345	0.050	<0.030	--	--	--	--	--	1.6
MAR									
27...	1315	<0.030	--	--	--	--	--	--	0.8
APR									
24...	1345	0.060	<0.030	--	--	--	--	--	4.1
MAY									
22...	1230	0.060	<0.030	--	--	--	--	--	2.3
JUN									
19...	1330	<0.030	<0.030	--	--	--	--	--	4.0
JUL									
31...	1400	<0.030	<0.030	--	--	--	--	--	--
AUG									
28...	1345	<0.030	<0.030	--	--	--	--	--	1.2
SEP									
25...	1345	0.090	<0.030	--	--	--	--	--	1.9

07057310 HICKS CREEK NEAR MOUNTAIN HOME, ARKANSAS

LOCATION.--Lat 36°17'32", long 92°22,34", in NE ¼ NE ¼ sec.28, T.19 N., R.13 W., Baxter County, Hydrologic Unit 11010004, at downstream side of low-water bridge on the Heritage Estate Subdivision Road, 3.0 mi south of Baxter County fairgrounds, and 0.9 mi from Highway 201 cutoff.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	1015	9827	9827	8.0	15.0	2.0	8.2	1.7	200
NOV 28.	1030	9827	9827	8.1	8.0	2.0	10.9	2.9	200
DEC 12.	1430	9827	9827	8.8	4.0	5.5	19.2	2.3	220
JAN 23.	1100	9827	9827	8.0	8.0	2.5	11.2	1.1	220
FEB 27.	1145	9827	9827	--	10.0	2.6	14.6	1.1	220
MAR 27.	1110	9827	9827	--	9.0	1.8	--	2.2	230
APR 24.	1130	9827	9827	8.6	19.0	2.2	12.6	1.4	--
MAY 22.	1030	9827	9827	8.2	17.0	2.6	9.5	2.4	210
JUN 19.	1045	9827	9827	8.1	24.0	--	8.2	1.8	--
JUL 31.	1045	9827	9827	8.3	24.0	--	9.6	3.5	220
AUG 28.	1040	9827	9827	8.2	27.0	--	8.1	3.6	210
SEP 25.	1055	9827	9827	8.3	17.0	--	9.1	0.8	220

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1015	24	69	414	3	12.0	<0.050	0.82	4.50
NOV 28.	1030	28	65	396	5	12.0	<0.050	0.90	7.20
DEC 12.	1430	25	66	411	18	13.0	<0.050	1.3	4.10
JAN 23.	1100	36	23	293	3	5.40	<0.050	0.72	1.55
FEB 27.	1145	20	21	280	3	4.80	<0.050	0.86	1.40
MAR 27.	1110	19	19	--	3	3.50	<0.050	0.60	1.06
APR 24.	1130	18	11	236	2	1.80	<0.050	0.90	0.610
MAY 22.	1030	16	10	260	2	1.70	<0.050	0.52	0.590
JUN 19.	1045	18	34	329	11	5.80	<0.050	0.63	2.65
JUL 31.	1045	19	57	390	4	13.0	--	0.88	3.85
AUG 28.	1040	25	58	406	4	18.0	0.050	0.82	4.80
SEP 25.	1055	24	33	337	3	9.10	<0.050	0.61	3.00

07057310 HICKS CREEK NEAR MOUNTAIN HOME, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24.	1015	3.65	<1	<1	<15	<2	20	--
NOV 28.	1030	4.60	<1	2	18	<2	20	--
DEC 12.	1430	3.84	--	<1	<15	<2	20	5.6
JAN 23.	1100	--	--	--	--	--	--	3.9
FEB 27.	1145	1.15	--	--	--	--	--	4.7
MAR 27.	1110	--	--	--	--	--	--	8.4
APR 24.	1130	0.480	--	--	--	--	--	8.5
MAY 22.	1030	0.430	--	--	--	--	--	4.8
JUN 19.	1045	2.15	--	--	--	--	--	--
JUL 31.	1045	3.20	--	--	--	--	--	--
AUG 28.	1040	4.00	--	--	--	--	--	6.5
SEP 25.	1055	2.30	--	--	--	--	--	6.0

07057370 WHITE RIVER NEAR NORFORK, ARKANSAS

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 northwest of Norfork.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 24.	0945	9827	9827	4950	8.0	13.0	1.5	8.4	0.4
NOV 28.	1000	9827	9827	1680	8.3	9.0	3.3	10.5	0.8
DEC 12.	1500	9827	9827	1670	8.3	5.0	3.0	12.3	0.5
JAN 23.	1030	9827	9827	4920	8.0	8.0	20	10.8	0.5
FEB 27.	1010	9827	9827	16400	--	9.0	3.4	11.2	0.3
MAR 27.	1030	9827	9827	33100	--	9.0	1.8	--	0.8
APR 24.	1030	9827	9827	15200	8.1	16.0	15	9.2	0.4
MAY 22.	1000	9827	9827	15700	8.0	16.0	35	8.9	0.9
JUN 19.	1015	9827	9827	18600	7.9	14.0	--	8.9	1.0
JUL 31.	1015	9827	9827	18500	--	15.0	--	7.6	0.8
AUG 28.	1610	9827	9827	18900	7.9	17.0	--	7.0	0.7
SEP 25.	1025	9827	9827	9100	8.0	16.0	--	7.2	0.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	0945	140	6.0	4.7	156	<1	0.240	<0.050	<0.030
NOV 28.	1000	150	9.0	6.0	155	5	0.110	<0.050	0.040
DEC 12.	1500	130	8.0	5.4	155	3	0.090	<0.050	<0.030
JAN 23.	1030	84	9.0	4.3	110	10	0.560	<0.050	0.080
FEB 27.	1010	120	5.0	3.8	135	3	0.140	<0.050	0.060
MAR 27.	1030	130	6.0	5.3	--	2	0.190	0.050	0.030
APR 24.	1030	--	8.0	2.5	91	16	0.200	<0.050	0.100
MAY 22.	1000	86	5.0	2.8	115	43	0.180	<0.050	0.100
JUN 19.	1015	--	5.0	4.9	--	6	0.340	<0.050	0.070
JUL 31.	1015	120	5.0	5.0	135	2	0.480	--	0.030
AUG 28.	1610	120	6.0	4.8	131	5	0.470	<0.050	<0.030
SEP 25.	1025	120	5.0	4.6	137	4	0.440	<0.050	0.150

07057370 WHITE RIVER NEAR NORFORK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24.	0945	0.030	<1	<1	<15	<2	<10	--
NOV 28.	1000	<0.030	<1	<1	<15	<2	<10	--
DEC 12.	1500	<0.030	--	<1	<15	<2	<10	3.4
JAN 23.	1030	--	--	--	--	--	--	7.2
FEB 27.	1010	<0.030	--	--	--	--	--	2.5
MAR 27.	1030	--	--	--	--	--	--	3.9
APR 24.	1030	<0.030	--	--	--	--	--	5.6
MAY 22.	1000	<0.030	--	--	--	--	--	4.2
JUN 19.	1015	<0.030	--	--	--	--	--	7.4
JUL 31.	1015	<0.030	--	--	--	--	--	--
AUG 28.	1610	<0.030	--	--	--	--	--	3.4
SEP 25.	1025	<0.030	--	--	--	--	--	5.5

07060500 WHITE RIVER AT CALICO ROCK, ARKANSAS

LOCATION.--Lat 36°06'58", long 92°08'35", in SE ¼ NE ¼ sec.22, T.17 N., R.11 W., Izard County, Hydrologic Unit 11010004, on left bank at Calico Rock, 200 ft upstream from bridge on State Highway 5, 700 ft upstream from Calico Creek, 3.2 mi downstream from Cataract Creek, 6.0 mi upstream from Piney Creek, and at mile 359.1.

DRAINAGE AREA.--9,978 mi².

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 above National Geodetic Vertical Datum of 1929. Prior to Jan. 26, 1940, nonrecording gage at same site and Jan. 27 to Aug. 13, 1940, nonrecording gage at site 500 ft downstream, both at datum 2.07 ft higher. Aug. 14, 1940, to Dec. 5, 1966, water-stage recorder at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Water-discharge records good. Satellite telemeter at station. Flow regulated since 1943 by Norfork Lake, capacity, 1,983,000 acre-ft, since July 24, 1951, by Bull Shoals Lake, 59.5 mi upstream, capacity, 5,408,000 acre-ft, since Sept. 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 acre-ft, and since Dec. 26, 1963, by Beaver Lake, capacity, 1,951,500 acre-ft.

AVERAGE DISCHARGE.--51 years, 10,110 ft³/s, 7,325,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 310,000 ft³/s Apr. 16, 1945, gage height, 49.84 ft present datum; minimum observed, 305 ft³/s Sept. 27, 1954; minimum daily, 310 ft³/s Sept 27, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1904, 52.9 ft Jan. 31, 1916, present datum, from records of National Weather Service, discharge, 350,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104,000 ft³/s May 4, gage height, 26.97 ft; minimum daily, 728 ft³/s Jan. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2350	2330	2370	728	5170	22800	16100	20000	13700	20100	20500	23200
2	1830	4980	1270	728	18100	20000	16400	24100	13000	20200	20000	22700
3	7700	6460	1490	1560	19900	19300	19700	58500	10700	20400	20600	22800
4	10400	7710	1470	983	12400	17600	19700	96300	10300	20700	21100	24200
5	6710	1780	1110	800	9880	19500	28500	41300	9260	20000	21700	23800
6	11600	1160	903	913	10400	19600	27300	20100	10700	19600	21600	23400
7	2860	6940	764	947	9770	19600	27700	14800	9150	18800	19600	23900
8	1320	4280	810	805	8710	23100	31900	12600	8140	14800	18200	22200
9	1070	12400	1800	1050	7420	18100	30600	10800	8440	15400	20400	22900
10	7580	8970	1180	1130	13000	12700	28600	9790	9530	15900	19600	23900
11	6750	3060	784	1300	5860	11500	14000	10200	11200	16500	19900	22100
12	11600	1410	1890	942	6220	16200	25000	9210	13500	18300	19100	22300
13	12700	849	2830	1380	13000	24800	26500	10700	15100	17700	20400	17300
14	10800	4380	3190	1390	12700	28900	28500	11100	15800	19400	18200	11800
15	6470	6720	2630	1570	12600	29300	29200	13300	18000	18900	20000	5480
16	2320	6400	4280	1080	18800	26300	29300	15300	18700	18900	20100	6590
17	4850	11500	2280	2380	15700	22900	35100	15800	20200	17000	19900	4060
18	6390	7660	1510	3620	14500	23200	23100	15500	19500	17800	19500	10300
19	12100	8770	1610	2310	18500	24500	22800	6460	19800	16900	19400	11400
20	10900	3050	1210	6670	20600	28100	17500	20300	20600	16600	20000	14400
21	5420	1360	2090	11900	20100	30800	21400	24200	19600	17800	19300	14500
22	1790	1770	1780	7500	19100	32600	22400	17000	19200	17200	19400	10600
23	2010	1520	5900	6110	21200	32700	21500	13400	16300	17400	19500	10500
24	5070	1380	2610	4910	21100	35700	16200	12600	19200	17500	20400	4460
25	9050	935	1170	4950	20800	35300	17200	12800	18500	17900	19500	10100
26	4550	832	1310	4740	20000	34400	20700	18800	17800	17500	19900	15100
27	1880	788	857	4480	17500	35000	24300	21600	18300	19300	20400	14900
28	1670	1690	740	2820	18800	35100	25800	23300	19200	17600	20200	17500
29	1060	1720	736	2840	---	32600	19600	20400	20200	18800	22100	17000
30	797	2530	736	5170	---	33900	20900	15700	18900	20400	21600	13600
31	6230	---	735	7280	---	20300	---	15100	---	19800	21400	---
TOTAL	177827	125334	54045	94986	411830	786400	707500	631060	462520	565100	623500	486990
MEAN	5736	4178	1743	3064	14710	25370	23580	20360	15420	18230	20110	16230
MAX	12700	12400	5900	11900	21200	35700	35100	96300	20600	20700	22100	24200
MIN	797	788	735	728	5170	11500	14000	6460	8140	14800	18200	4060
AC-FT	352700	248600	107200	188400	816900	1560000	1403000	1252000	917400	1121000	1237000	965900

CAL YR 1989 TOTAL 3592606 MEAN 9843 MAX 52300 MIN 735 AC-FT 7126000
WTR YR 1990 TOTAL 5127092 MEAN 14050 MAX 96300 MIN 728 AC-FT 10170000

07060500 WHITE RIVER AT CALICO ROCK, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to September 1981.

REMARKS.--Flow regulated by upstream reservoirs.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 20...	1015	80513	80020	3500	304	7.8	12.0	8.9	83	1.3
DEC 11...	1300	80513	80020	728	282	8.3	6.0	11.6	94	1.8
FEB 13...	1200	80513	80020	15800	286	7.9	9.0	10.9	96	1.8
APR 09...	1220	80513	80020	32300	235	7.8	9.5	10.4	92	--
JUN 27...	1450	80513	80020	12500	255	7.8	13.5	9.6	93	0.8
AUG 29...	1015	80513	80020	24800	254	7.5	15.0	6.7	67	0.6

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
NOV 20...	1015	756	22	23	160	36	16	2.3	3	0.1
DEC 11...	1300	757	2	74	140	36	12	3.0	4	0.1
FEB 13...	1200	750	19	49	140	37	11	2.8	4	0.1
APR 09...	1220	756	4	25	130	33	11	2.6	4	0.1
JUN 27...	1450	755	15	76	130	34	11	2.9	5	0.1
AUG 29...	1015	753	K1100	180	120	33	9.8	2.4	4	0.1

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
NOV 20...	1015	1.7	150	--	6.0	3.4	0.10	156	1480	0.21
DEC 11...	1300	1.3	141	--	7.0	4.6	0.10	149	293	0.20
FEB 13...	1200	1.4	126	--	7.0	4.3	0.10	140	5970	0.19
APR 09...	1220	1.5	--	120	9.2	5.6	0.10	139	12100	0.19
JUN 27...	1450	1.4	128	--	6.4	5.9	0.20	140	4720	0.19
AUG 29...	1015	1.5	117	--	5.7	4.9	0.30	130	8670	0.18

07060500 WHITE RIVER AT CALICO ROCK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
NOV 20...	1015	<0.010	0.200	0.030	0.020	--	<0.20	<0.010	<0.010	<0.010
DEC 11...	1300	<0.010	0.130	<0.010	0.020	--	0.40	<0.010	<0.010	0.010
FEB 13...	1200	<0.010	0.170	<0.010	<0.010	--	<0.20	0.050	0.020	<0.010
APR 09...	1220	<0.010	0.200	<0.010	<0.010	--	0.30	0.010	0.020	<0.010
JUN 27...	1450	<0.010	0.300	0.020	0.010	0.28	0.30	<0.010	<0.010	<0.010
AUG 29...	1015	<0.010	0.400	<0.010	<0.010	--	<0.20	<0.010	<0.010	<0.010

DATE	TIME	BORON, DISSOLVED (UG/L AS B) (01020)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)
NOV 20...	1015	<10	--	--	--	--	--	--	--	--
DEC 11...	1300	<10	--	--	--	--	--	--	--	--
FEB 13...	1200	<10	--	--	--	--	--	--	--	--
APR 09...	1220	10	50	<1	<1	1	<1	2	70	1
JUN 27...	1450	<10	--	--	--	--	--	--	--	--
AUG 29...	1015	20	--	--	--	--	--	--	--	--

DATE	TIME	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 20...	1015	--	--	--	--	--	--	0	0.0	100
DEC 11...	1300	--	--	--	--	--	--	3	5.9	100
FEB 13...	1200	--	--	--	--	--	--	29	1240	84
APR 09...	1220	20	1	<0.10	1	<1	<10	4	349	69
JUN 27...	1450	--	--	--	--	--	--	2	68	88
AUG 29...	1015	--	--	--	--	--	--	9	603	62

07060590 MILL CREEK NEAR MELBOURNE, ARKANSAS

LOCATION.--Lat 36°03'13", long 91°54'58", in SE ¼ NE ¼ sec.11, T.16 N., R.9 W., Izard County, Hydrologic Unit 11010004, at upstream side of bridge on State Highway 9, 0.4 mi southwest of water tower, and 0.6 mi south of intersection of State Highway 9 and 69.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	0930	9827	9827	7.9	15.5	3.1	7.7	0.7	190
NOV 07.	0915	9827	9827	7.9	16.0	2.0	7.7	1.0	190
DEC 12.	0950	9827	9827	7.9	2.0	3.5	11.4	0.5	190
JAN 09.	0915	9827	9827	7.8	8.0	3.5	9.6	0.7	190
FEB 13.	0915	9827	9827	7.8	12.0	3.2	10.1	0.3	190
MAR 14.	0900	9827	9827	7.9	15.0	3.5	10.2	0.5	160
APR 03.	0915	9827	9827	7.7	12.0	--	10.5	0.7	160
MAY 08.	0945	9827	9827	7.7	16.0	5.2	9.8	0.3	160
JUN 12.	0915	9827	9827	7.9	18.0	--	9.3	0.3	170
JUL 17.	0830	9827	9827	7.8	19.0	--	8.0	0.3	180
AUG 11.	1000	9827	9827	8.0	20.0	--	7.1	1.3	180
14.	0820	9827	9827	8.1	19.0	--	7.8	0.9	180

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	0930	5.0	6.9	213	3	1.10	0.080	0.43	0.030
NOV 07.	0915	4.0	6.5	207	4	0.820	0.060	0.20	<0.030
DEC 12.	0950	5.0	26	238	4	0.940	0.100	0.29	<0.030
JAN 09.	0915	6.0	7.5	201	3	--	<0.050	0.44	0.050
FEB 13.	0915	5.0	5.4	190	6	1.10	<0.050	0.46	0.030
MAR 14.	0900	4.0	4.5	168	3	0.810	0.060	0.33	0.070
APR 03.	0915	5.0	3.8	182	5	0.770	0.120	0.39	0.050
MAY 08.	0945	7.0	3.5	173	5	0.740	<0.050	0.55	0.050
JUN 12.	0915	4.0	4.3	191	3	0.820	0.070	0.34	<0.030
JUL 17.	0830	2.0	5.2	176	4	1.00	0.050	0.50	<0.030
AUG 11.	1000	3.0	5.5	202	3	0.960	0.050	--	0.040
14.	0820	2.0	5.5	190	3	0.930	0.090	0.26	0.030

07060590 MILL CREEK NEAR MELBOURNE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	0930	<0.030	<1	<1	<15	<2	<10	--
NOV								
07.	0915	<0.030	<1	2	<15	<2	30	3.3
DEC								
12.	0950	<0.030	<1	<1	<15	<2	20	0.5
JAN								
09.	0915	<0.030	--	--	--	--	--	--
FEB								
13.	0915	<0.030	--	--	--	--	--	4.2
MAR								
14.	0900	<0.030	--	--	--	--	--	2.3
APR								
03.	0915	<0.030	--	--	--	--	--	--
MAY								
08.	0945	<0.030	--	--	--	--	--	2.7
JUN								
12.	0915	0.030	--	--	--	--	--	3.6
JUL								
17.	0830	0.050	--	--	--	--	--	2.7
AUG								
11.	1000	<0.030	--	--	--	--	--	4.5
14.	0820	<0.030	--	--	--	--	--	2.5

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

LOCATION.--Lat 35°59'30", long 92°12'50", in ¼ NW ¼ sec.25, T.16 N., R.12 W., Stone County, Hydrologic Unit 11010004, on right bank 30 ft upstream from bridge on Ozark National Forest service road, 200 ft downstream from Gunner Creek, 2.7 mi north of Fifty Six, and 7.0 mi upstream from South Sylamore Creek.

DRAINAGE AREA.--58.1 mi².

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 above National Geodetic Vertical datum of 1929.

REMARKS.--No estimated daily discharges. Water-discharge records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--24 years, 46.9 ft³/s, 10.96 in/yr, 33,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft³/s Dec. 3, 1982, gage height, 20.60 ft, from rating curve extended above 3,700 ft³/s on basis of step-backwater computations; minimum, 1.6 ft³/s Nov. 22, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
May 03	0700	*9,050	*12.64	No other peak greater than base discharge			

Minimum discharge, 2.4 ft³/s Dec. 23-26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	4.5	3.5	4.7	415	56	180	53	61	9.5	6.0	3.3
2	8.5	4.3	3.6	3.9	192	70	119	707	51	9.3	5.9	3.4
3	6.5	4.2	3.4	4.1	111	61	84	3340	42	9.1	5.9	3.4
4	5.6	4.1	3.6	5.0	88	48	65	550	35	8.8	6.9	3.5
5	5.3	4.3	3.7	5.1	64	38	54	268	30	8.2	9.0	3.4
6	5.5	4.5	3.9	4.3	45	33	44	177	27	8.1	6.5	3.4
7	5.2	4.6	3.9	3.9	33	221	35	125	25	8.1	5.4	3.4
8	4.9	4.3	3.8	3.8	27	1140	30	97	22	8.1	5.0	4.0
9	4.9	4.1	3.8	3.7	26	267	27	78	20	7.9	4.6	5.2
10	4.6	3.9	3.8	3.7	41	157	40	65	19	7.5	4.5	5.1
11	4.7	3.9	3.7	3.5	39	108	55	55	18	7.5	4.6	4.6
12	4.4	3.9	3.5	3.4	31	82	44	54	17	7.8	4.7	4.5
13	4.5	3.9	3.4	3.3	26	63	39	47	16	8.3	9.7	4.2
14	4.5	3.9	3.4	3.4	23	107	35	40	17	7.8	8.5	4.1
15	4.5	3.9	3.4	3.4	459	456	32	36	16	7.6	6.4	3.8
16	4.6	3.9	3.1	3.6	170	189	33	33	15	7.4	5.6	3.4
17	4.5	3.8	3.1	7.3	89	121	634	46	14	7.0	5.2	4.2
18	4.5	3.8	3.0	9.6	62	86	314	38	14	6.9	4.8	6.5
19	4.5	3.9	3.1	102	43	68	174	38	13	6.9	4.4	5.1
20	4.5	3.9	3.2	132	31	55	152	50	13	6.9	4.3	4.8
21	4.6	3.9	3.0	45	28	49	280	113	14	7.5	4.1	12
22	4.7	4.7	2.7	21	53	46	187	112	31	16	4.2	27
23	4.8	5.0	2.5	13	54	40	131	74	19	13	4.1	14
24	4.8	4.5	2.4	10	42	36	96	55	14	9.7	4.3	7.8
25	4.6	4.3	2.5	8.3	31	35	73	44	12	7.8	4.6	6.0
26	4.5	4.1	3.0	7.4	26	33	60	62	12	7.9	4.8	5.4
27	4.5	4.1	3.9	6.8	24	32	54	246	12	8.2	4.5	4.6
28	4.6	3.9	4.2	6.6	25	42	62	225	11	7.3	3.7	4.8
29	4.5	3.5	5.0	8.5	---	93	57	130	11	6.8	3.4	4.2
30	4.3	3.5	5.9	9.3	---	590	47	93	10	6.5	3.1	6.9
31	4.4	---	5.6	9.1	---	326	---	74	---	6.0	3.2	---
TOTAL	156.5	123.1	110.6	458.7	2298	4748	3237	7125	631	255.4	161.9	176.0
MEAN	5.05	4.10	3.57	14.8	82.1	153	108	230	21.0	8.24	5.22	5.87
MAX	10	5.0	5.9	132	459	1140	634	3340	61	16	9.7	27
MIN	4.3	3.5	2.4	3.3	23	32	27	33	10	6.0	3.1	3.3
AC-FT	310	244	219	910	4560	9420	6420	14130	1250	507	321	349
CFSM	.09	.07	.06	.25	1.41	2.64	1.86	3.96	.36	.14	.09	.10
IN.	.10	.08	.07	.29	1.47	3.04	2.07	4.56	.40	.16	.10	.11

CAL YR 1989 TOTAL 18912.6 MEAN 51.8 MAX 3100 MIN 2.4 AC-FT 37510 CFSM .89 IN. 12.11
WTR YR 1990 TOTAL 19481.2 MEAN 53.4 MAX 3340 MIN 2.4 AC-FT 38640 CFSM .92 IN. 12.47

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NOV 20.	1120	80513	80020	5.5	308	8.0	13.0	0.20	7.9	76
DEC 11.	1145	80513	80020	4.3	292	8.2	6.0	0.20	8.7	71
FEB 13.	1330	80513	80020	29	235	8.0	11.0	0.40	10.5	97
APR 09.	1130	80513	80020	8.8	220	8.2	12.5	0.30	11.0	104
JUN 27.	1530	80513	80020	14	265	8.0	27.0	1.2	8.1	103
AUG 29.	1100	80513	80020	11	270	7.9	26.0	0.40	6.8	85

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV 20.	1120	752	5	88	160	0	52	7.0	1.7	2
DEC 11.	1145	754	4	38	150	0	50	5.8	1.7	2
FEB 13.	1330	745	4	41	110	--	38	4.7	1.1	2
APR 09.	1130	754	2	180	130	9	46	4.8	1.1	2
JUN 27.	1530	755	6	110	150	--	50	5.5	1.6	2
AUG 29.	1100	750	K51	160	130	--	44	5.9	1.6	3

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
NOV 20.	1120	0.1	0.80	--	159	0	194	159	4.0	2.0
DEC 11.	1145	0.1	0.70	--	151	--	188	154	5.0	2.3
FEB 13.	1330	0.0	0.70	106	--	--	--	--	7.0	1.4
APR 09.	1130	0.0	0.70	--	121	0	153	125	9.0	1.7
JUN 27.	1530	0.1	0.70	144	--	--	--	--	4.3	3.5
AUG 29.	1100	0.1	0.80	143	--	--	--	--	3.4	3.4

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 20.	1120	<0.10	7.1	160	170	2.38	0.22	<0.010	<0.100	0.020
DEC 11.	1145	0.10	6.6	160	165	1.86	0.22	<0.010	<0.100	<0.010
FEB 13.	1330	<0.10	5.7	138	122	10.8	0.19	<0.010	<0.100	<0.010
APR 09.	1130	0.20	6.8	147	146	3.49	0.20	<0.010	<0.100	<0.010
JUN 27.	1530	0.20	8.8	151	161	5.71	0.21	<0.010	<0.100	<0.010
AUG 29.	1100	0.20	9.1	145	154	4.15	0.20	<0.010	<0.100	<0.010

DATE	TIME	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)
NOV 20.	1120	0.020	<0.20	<0.010	<0.010	<0.010	22	<10	<1	<0.5
DEC 11.	1145	0.020	<0.20	<0.010	<0.010	0.010	--	--	--	--
FEB 13.	1330	0.010	<0.20	0.010	<0.010	<0.010	--	--	--	--
APR 09.	1130	<0.010	<0.20	<0.010	<0.010	<0.010	20	10	<1	<0.5
JUN 27.	1530	<0.010	0.20	<0.010	<0.010	<0.010	26	<10	<1	<0.5
AUG 29.	1100	0.010	<0.20	<0.010	<0.010	0.010	27	10	<1	<0.5

DATE	TIME	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)
NOV 20.	1120	<1.0	<1	<3	1	17	<1	<4	3	<0.1
APR 09.	1130	2.0	<5	<3	<10	4	<10	<4	3	<0.1
JUN 27.	1530	<1.0	<1	<3	2	<3	<1	4	6	<0.1
AUG 29.	1100	<1.0	<1	<3	1	5	<1	<4	5	<0.1

DATE	TIME	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)
NOV 20.	1120	<10	<1	<1	<1.0	42	<6	9	--	--
DEC 11.	1145	--	--	--	--	--	--	--	1.1	<0.4
APR 09.	1130	<10	<10	<1	<1.0	32	<6	8	--	--
JUN 27.	1530	<10	2	<1	<1.0	40	<6	8	--	--
AUG 29.	1100	<10	<1	<1	<1.0	40	<6	9	--	--

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV									
20.	1120	--	--	--	--	--	32	0.48	69
DEC									
11.	1145	1.4	<0.4	1.3	<0.4	0.08	47	0.55	32
FEB									
13.	1330	--	--	--	--	--	3	0.23	78
APR									
09.	1130	--	--	--	--	--	13	0.31	52
JUN									
27.	1530	--	--	--	--	--	14	0.53	46
AUG									
29.	1100	--	--	--	--	--	5	0.14	53

07060839 WHITE RIVER ABOVE L&D 3 NEAR ST. JAMES, ARKANSAS

LOCATION.--Lat 35°50'38", long 91°51'05", in NW ¼ sec.16, T.14 N., R.8 W., Stone County, Hydrologic Unit 11010004, 200 ft above Dam No. 3 on White River near St. James.

PERIOD OF RECORD.--January 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
18...	0830	80513	292	0.0	14.0	9.4	91	760
18...	0831	80513	292	3.00	14.0	9.4	91	760
18...	0832	80513	292	6.00	14.0	9.4	91	760
18...	0833	80513	292	9.00	14.0	9.6	93	760
18...	0834	80513	292	12.0	14.0	9.6	93	760
18...	0835	80513	292	15.0	14.0	9.6	93	760
18...	0836	80513	292	18.0	14.0	9.6	93	760
18...	0839	80513	175	0.0	14.0	9.7	94	760
18...	0840	80513	175	3.00	14.0	9.8	95	760
18...	0841	80513	175	6.00	14.0	9.7	94	760
18...	0842	80513	175	9.00	14.0	9.7	94	760
18...	0843	80513	175	12.0	14.0	9.8	95	760
18...	0844	80513	175	15.0	14.0	9.8	95	760
18...	0845	80513	175	16.0	14.0	9.7	94	760
18...	0850	80513	58.0	0.0	14.0	9.8	95	760
18...	0851	80513	58.0	3.00	14.0	9.8	95	760
18...	0852	80513	58.0	6.00	14.0	9.7	94	760
18...	0853	80513	58.0	9.00	14.0	9.7	94	760
18...	0854	80513	58.0	11.0	14.0	9.7	94	760
30...	1335	80513	175	0.0	15.5	9.1	91	756
30...	1336	80513	175	3.00	16.0	9.1	93	756
30...	1337	80513	175	6.00	16.0	9.0	92	756
30...	1338	80513	175	9.00	15.5	8.9	89	756
30...	1339	80513	175	12.0	15.5	9.0	90	756
30...	1340	80513	175	14.0	15.5	8.9	89	756

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUN								
25...	1210	80513	175	0.0	15.5	9.7	97	758
25...	1212	80513	175	3.00	15.5	9.6	96	758
25...	1214	80513	175	6.00	15.5	9.7	97	758
25...	1216	80513	175	9.00	15.5	9.7	97	758
25...	1218	80513	175	12.0	15.5	9.8	98	758
25...	1220	80513	175	15.0	15.5	9.8	98	758
25...	1222	80513	175	16.0	15.5	9.8	98	758

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUL								
11...	1125	80513	175	0.0	16.5	9.8	101	760
11...	1126	80513	175	3.00	16.5	9.8	101	760
11...	1127	80513	175	6.00	16.5	9.6	99	760
11...	1130	80513	175	9.00	16.5	9.3	96	760
11...	1131	80513	175	12.0	16.5	9.4	97	760
11...	1132	80513	175	15.0	16.5	9.3	96	760
11...	1134	80513	175	17.0	16.5	9.4	97	760
23...	1130	80513	175	0.0	16.5	9.2	95	758
23...	1131	80513	175	3.00	16.5	8.9	92	758
23...	1132	80513	175	6.00	16.5	8.9	92	758
23...	1133	80513	175	9.00	16.5	9.0	93	758
23...	1134	80513	175	12.0	16.5	8.9	92	758
23...	1136	80513	175	15.0	16.5	9.0	93	758
23...	1138	80513	175	18.0	16.5	9.1	94	758

07060839 WHITE RIVER ABOVE L&D 3 NEAR ST. JAMES, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SAM-PLING DEPTH (FEET) (00003)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
AUG								
07...	0925	80513	175	0.0	16.5	8.7	90	762
07...	0926	80513	175	3.00	16.5	8.6	89	762
07...	0927	80513	175	6.00	16.5	8.6	89	762
07...	0928	80513	175	9.00	16.5	8.6	89	762
07...	0929	80513	175	12.0	16.5	8.8	91	762
07...	0930	80513	175	15.0	16.5	8.8	91	762
07...	0931	80513	175	16.0	16.5	8.7	90	762
22...	1310	80513	175	0.0	18.5	8.2	88	756
22...	1311	80513	175	3.00	18.5	8.1	87	756
22...	1312	80513	175	6.00	18.0	8.0	85	756
22...	1313	80513	175	9.00	18.0	8.1	86	756
22...	1314	80513	175	12.0	18.0	8.1	86	756
22...	1315	80513	175	15.0	18.0	8.3	88	756
22...	1316	80513	175	18.0	18.0	8.4	89	756

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SAM-PLING DEPTH (FEET) (00003)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
SEP								
04...	1125	80513	175	0.0	17.5	8.1	85	761
04...	1126	80513	175	3.00	17.5	8.1	85	761
04...	1127	80513	175	6.00	17.5	8.0	84	761
04...	1128	80513	175	9.00	17.5	8.1	85	761
04...	1129	80513	175	12.0	17.5	8.2	86	761
04...	1130	80513	175	15.0	17.5	8.1	85	761
04...	1131	80513	175	18.0	17.5	8.3	87	761
18...	1015	80513	175	0.0	18.5	8.9	96	758
18...	1016	80513	175	3.00	18.5	9.1	98	758
18...	1017	80513	175	6.00	18.5	9.3	100	758
18...	1018	80513	175	9.00	18.5	9.5	102	758
18...	1020	80513	175	12.0	18.5	9.4	101	758
18...	1022	80513	175	14.0	18.5	9.0	97	758

07060839 WHITE RIVER ABOVE L&D 3 NEAR ST. JAMES, ARKANSAS--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	10.8	8.1	8.9	6.9	4.7	5.4
2	---	---	---	---	---	---	10.6	7.2	8.6	8.4	4.7	5.8
3	---	---	---	12.0	10.8	11.4	8.3	6.4	7.2	11.2	5.6	7.6
4	---	---	---	11.0	10.3	10.7	7.6	6.2	6.7	---	---	---
5	---	---	---	---	---	---	7.6	6.1	6.7	9.7	6.3	7.6
6	---	---	---	13.8	12.4	13.2	8.7	6.2	6.9	---	---	---
7	---	---	---	15.5	13.9	14.7	6.3	5.6	5.9	10.2	5.3	6.7
8	---	---	---	---	---	---	7.5	5.7	6.6	8.2	5.3	6.3
9	---	---	---	---	---	---	7.7	5.7	6.1	---	---	---
10	---	---	---	---	---	---	9.0	6.4	7.2	---	---	---
11	---	---	---	---	---	---	9.4	5.3	6.8	7.8	6.2	6.8
12	---	---	---	---	---	---	6.3	3.9	4.8	7.7	5.6	6.6
13	---	---	---	---	---	---	5.5	3.7	4.3	---	---	---
14	---	---	---	---	---	---	3.6	2.7	3.1	---	---	---
15	---	---	---	---	---	---	3.0	2.1	2.7	---	---	---
16	---	---	---	---	---	---	2.5	1.6	1.9	---	---	---
17	---	---	---	10.5	9.1	9.7	2.3	1.6	2.0	---	---	---
18	---	---	---	12.2	9.9	10.9	3.5	1.9	2.4	---	---	---
19	---	---	---	13.3	11.3	12.1	3.5	1.9	2.8	15.0	12.0	13.3
20	---	---	---	14.2	11.4	12.2	3.9	2.3	2.8	13.3	7.7	10.7
21	---	---	---	14.2	12.1	12.9	2.3	.9	1.6	10.1	7.4	7.8
22	---	---	---	18.1	10.8	13.1	---	---	---	10.8	7.5	9.0
23	---	---	---	11.0	9.4	10.3	.9	.4	.7	10.8	7.7	8.3
24	---	---	---	11.2	9.1	9.8	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	8.9	7.8	8.3
26	---	---	---	---	---	---	2.7	.8	1.6	10.3	6.7	7.9
27	---	---	---	---	---	---	2.3	.9	1.3	7.4	6.6	7.0
28	15.1	13.7	14.4	10.4	8.2	9.8	3.7	1.7	2.4	12.2	7.3	9.9
29	---	---	---	10.4	7.9	9.1	---	---	---	---	---	---
30	---	---	---	9.3	7.2	8.1	---	---	---	---	---	---
31	---	---	---	---	---	---	7.6	4.5	5.9	11.7	7.2	8.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	12.1	7.6	9.4	---	---	---	---	---	---
2	---	---	---	10.0	7.6	8.6	16.4	12.6	13.3	---	---	---
3	---	---	---	10.3	7.8	8.7	14.5	11.4	12.4	---	---	---
4	---	---	---	10.8	8.1	8.9	13.7	11.1	12.0	---	---	---
5	---	---	---	12.6	8.6	9.8	13.9	10.8	11.3	---	---	---
6	---	---	---	12.5	8.7	10.3	---	---	---	---	---	---
7	---	---	---	---	---	---	11.6	9.7	10.4	---	---	---
8	---	---	---	---	---	---	11.5	10.1	10.6	---	---	---
9	---	---	---	---	---	---	10.5	10.1	10.2	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	12.9	8.4	9.9	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	14.9	10.4	11.3	---	---	---
13	---	---	---	---	---	---	12.7	10.7	11.3	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	9.1	8.4	8.7	16.4	12.0	13.3	---	---	---	---	---	---
18	---	---	---	15.0	10.8	12.2	15.2	11.1	12.3	15.4	14.3	15.0
19	---	---	---	14.6	10.2	11.6	---	---	---	14.2	13.7	13.9
20	9.9	7.9	8.5	12.4	9.7	10.3	---	---	---	16.9	14.3	15.8
21	---	---	---	12.6	9.6	10.4	---	---	---	16.3	14.3	15.4
22	---	---	---	10.5	9.6	10.0	---	---	---	16.4	15.4	16.0
23	9.2	8.4	8.7	14.4	9.2	10.9	---	---	---	17.3	16.1	16.6
24	12.3	8.1	9.3	11.2	9.2	10.2	---	---	---	---	---	---
25	8.4	7.9	8.1	10.8	8.4	9.3	---	---	---	---	---	---
26	9.7	7.3	7.8	9.8	8.6	8.9	---	---	---	---	---	---
27	12.5	8.2	9.5	11.4	9.0	9.7	---	---	---	---	---	---
28	12.3	9.2	10.9	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	16.3	15.4	15.7
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07060839 WHITE RIVER ABOVE L&D 3 NEAR ST. JAMES, ARKANSAS--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	15.0	16.0	17.6	15.8	16.6	16.6	15.8	16.1	18.1	17.4	17.7
2	18.3	17.0	17.6	17.0	15.7	16.3	16.7	15.7	16.1	17.8	17.3	17.5
3	18.7	17.7	18.2	---	---	---	16.7	16.0	16.4	17.9	17.1	17.5
4	19.5	18.8	19.2	---	---	---	16.0	15.7	15.9	17.9	17.1	17.4
5	19.8	19.3	19.6	---	---	---	16.3	15.4	15.8	18.0	17.1	17.6
6	21.6	19.5	20.5	---	---	---	16.7	15.8	16.2	17.8	17.2	17.5
7	21.2	20.0	20.6	---	---	---	16.1	15.5	15.8	17.6	17.0	17.3
8	21.7	21.2	21.4	---	---	---	16.0	15.3	15.6	17.2	16.9	17.0
9	22.3	21.1	21.7	---	---	---	16.6	15.2	15.8	17.4	16.9	17.2
10	21.4	20.7	21.0	---	---	---	16.8	15.6	16.2	17.5	17.1	17.3
11	20.9	20.2	20.6	---	---	---	16.8	15.9	16.3	17.0	16.5	16.7
12	20.5	19.1	19.6	---	---	---	16.6	15.6	16.0	16.8	16.3	16.5
13	19.6	17.7	18.3	---	---	---	16.8	15.5	16.0	---	---	---
14	18.6	17.4	18.0	15.5	14.7	15.1	16.9	15.8	16.3	---	---	---
15	18.0	16.2	16.9	15.6	14.4	15.0	---	---	---	---	---	---
16	17.6	15.7	16.6	17.0	15.0	15.8	---	---	---	---	---	---
17	17.6	16.0	16.7	17.4	15.6	16.3	---	---	---	---	---	---
18	17.0	16.0	16.5	18.0	16.1	16.9	---	---	---	---	---	---
19	17.0	16.3	16.5	18.3	16.2	17.1	---	---	---	---	---	---
20	17.2	16.4	16.7	18.4	16.7	17.4	---	---	---	18.5	17.7	18.0
21	16.4	15.1	15.7	17.7	16.9	17.3	---	---	---	---	---	---
22	15.4	14.8	15.1	18.4	17.1	17.7	---	---	---	---	---	---
23	17.0	15.4	16.2	17.9	16.6	17.3	---	---	---	17.9	17.4	17.7
24	17.1	16.1	16.7	18.9	16.9	17.8	---	---	---	17.7	16.9	17.2
25	16.2	15.4	15.9	18.7	17.6	18.0	---	---	---	---	---	---
26	15.3	14.5	14.9	17.9	16.9	17.3	---	---	---	17.9	17.5	17.6
27	15.8	14.5	15.1	17.8	16.7	17.2	---	---	---	18.3	17.3	17.8
28	17.4	15.6	16.3	18.9	17.0	17.8	---	---	---	18.3	17.5	17.9
29	17.5	16.0	16.6	18.5	17.4	17.9	---	---	---	18.2	17.6	17.9
30	17.0	15.7	16.3	17.6	16.5	17.1	18.8	17.7	18.1	---	---	---
31	---	---	---	17.9	16.5	17.0	18.2	17.5	17.8	---	---	---
MONTH	22.3	14.5	17.7	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	8.9	9.1	9.4	8.9	9.1	9.4	8.6	8.9	8.1	7.6	7.8
2	9.0	8.6	8.9	9.4	8.8	9.1	9.4	8.8	9.1	7.9	7.4	7.7
3	8.9	8.7	8.8	---	---	---	9.3	8.9	9.1	7.8	7.3	7.5
4	8.9	8.7	8.8	---	---	---	9.3	8.9	9.1	7.6	6.9	7.3
5	8.9	8.6	8.8	---	---	---	9.4	9.0	9.2	7.4	7.0	7.2
6	8.8	8.5	8.7	---	---	---	9.7	9.1	9.4	7.4	7.2	7.3
7	8.8	8.5	8.6	---	---	---	9.7	7.8	9.1	7.3	7.0	7.1
8	8.8	8.5	8.7	---	---	---	10.1	9.4	9.7	7.3	7.0	7.1
9	8.7	8.3	8.5	---	---	---	10.2	9.5	9.8	7.6	7.1	7.3
10	8.9	8.2	8.6	---	---	---	10.0	9.2	9.7	7.4	7.2	7.3
11	8.9	8.2	8.6	---	---	---	9.9	9.2	9.4	7.4	7.2	7.3
12	8.9	8.4	8.6	---	---	---	9.8	9.2	9.5	7.6	7.1	7.4
13	8.6	8.3	8.4	---	---	---	9.9	9.1	9.4	---	---	---
14	8.6	8.1	8.3	9.5	9.0	9.2	9.8	9.1	9.5	---	---	---
15	8.5	8.2	8.3	9.6	9.0	9.3	9.9	9.3	9.6	---	---	---
16	8.6	8.1	8.3	9.9	9.0	9.4	10.1	9.3	9.6	---	---	---
17	8.6	8.1	8.4	10.0	9.0	9.4	9.9	9.4	9.7	---	---	---
18	8.8	8.3	8.5	9.7	9.1	9.4	9.9	9.5	9.7	---	---	---
19	8.9	8.5	8.7	9.7	9.1	9.4	10.0	9.5	9.7	---	---	---
20	9.0	8.6	8.8	9.6	9.2	9.4	10.0	9.5	9.7	8.1	7.7	7.9
21	8.9	8.6	8.8	9.6	9.1	9.3	10.3	9.7	10.0	---	---	---
22	8.9	8.7	8.7	9.6	9.1	9.3	---	---	---	8.1	7.7	7.9
23	9.7	8.9	9.4	9.4	8.3	9.0	8.8	8.1	8.5	8.7	7.8	8.3
24	10.2	9.5	9.9	9.5	8.9	9.2	9.1	8.2	8.6	8.8	8.3	8.5
25	11.1	9.1	9.8	9.4	8.8	9.1	8.9	8.1	8.5	---	---	---
26	9.3	9.0	9.1	9.2	8.7	8.9	9.5	8.7	9.1	9.4	7.9	8.8
27	9.4	9.0	9.1	9.2	8.7	8.9	9.9	8.7	9.1	8.6	7.9	8.2
28	9.4	9.0	9.2	9.3	8.7	9.0	---	---	---	8.5	7.8	8.2
29	9.3	8.9	9.1	9.2	8.7	9.0	---	---	---	8.5	7.8	8.1
30	9.4	8.9	9.1	9.0	8.5	8.7	8.4	7.8	8.0	---	---	---
31	---	---	---	9.3	8.6	8.9	8.2	7.7	7.9	---	---	---
MONTH	11.1	8.1	8.8	---	---	---	---	---	---	---	---	---

07060841 WHITE RIVER BELOW L&D 3 NEAR ST. JAMES, ARKANSAS

LOCATION.--Lat 35°50'19", long 91°51'03", in NE ¼ sec.28, T.14 N., R.8 W., Independence County, Hydrologic Unit 11010004, 1500 ft below Dam No. 3 on White River near St. James.

PERIOD OF RECORD.--May to September 1990.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
18...	1050	80513	292	0.0	14.5	10.1	99	760
18...	1051	80513	292	3.00	14.5	10.0	98	760
18...	1052	80513	292	6.00	14.5	10.1	99	760
18...	1053	80513	292	9.00	14.5	10.1	99	760
18...	1054	80513	292	12.0	14.5	10.1	99	760
18...	1055	80513	292	15.0	14.5	10.1	99	760
18...	1056	80513	292	17.0	14.0	10.0	97	760
18...	1059	80513	175	0.0	14.5	10.0	98	760
18...	1100	80513	175	3.00	14.5	10.0	98	760
18...	1102	80513	175	6.00	14.5	10.0	98	760
18...	1103	80513	175	9.00	14.5	10.1	99	760
18...	1108	80513	58.0	0.0	14.5	10.0	98	760
18...	1109	80513	58.0	3.00	14.5	10.0	98	760
18...	1110	80513	58.0	6.00	14.5	9.9	97	760
18...	1111	80513	58.0	7.00	14.5	9.9	97	760
30...	1540	80513	58.0	0.0	16.5	9.6	99	755
30...	1541	80513	58.0	3.00	16.5	9.8	101	755
30...	1542	80513	58.0	6.00	16.5	9.6	99	755
30...	1543	80513	58.0	9.00	16.5	9.6	99	755
30...	1544	80513	58.0	10.0	16.5	9.7	100	755
30...	1548	80513	175	0.0	16.5	9.5	98	755
30...	1549	80513	175	3.00	16.5	9.4	97	755
30...	1550	80513	175	6.00	16.5	9.4	97	755
30...	1551	80513	175	9.00	16.5	9.4	97	755
30...	1552	80513	175	12.0	16.5	9.6	99	755
30...	1556	80513	292	0.0	16.5	9.3	96	755
30...	1557	80513	292	3.00	16.5	9.1	94	755
30...	1558	80513	292	6.00	16.5	9.4	97	755
30...	1559	80513	292	8.00	16.5	9.4	97	755

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUN								
11...	1425	80513	292	0.0	20.5	10.4	116	760
11...	1426	80513	292	3.00	20.5	10.2	113	760
11...	1427	80513	292	6.00	20.5	10.2	113	760
11...	1430	80513	175	0.0	20.0	10.1	111	760
11...	1432	80513	175	3.00	20.0	9.8	108	760
11...	1433	80513	175	6.00	20.0	10.1	111	760
11...	1435	80513	175	9.00	20.0	10.0	110	760
11...	1436	80513	175	12.0	20.0	9.9	109	760
11...	1440	80513	58.0	0.0	20.0	9.7	107	760
11...	1442	80513	58.0	3.00	20.0	9.7	107	760
11...	1443	80513	58.0	6.00	20.0	9.8	108	760
11...	1444	80513	58.0	9.00	20.0	9.8	108	760
25...	1430	80513	58.0	0.0	16.0	10.6	108	758
25...	1431	80513	58.0	3.00	16.0	10.6	108	758
25...	1432	80513	58.0	6.00	16.0	10.3	105	758
25...	1433	80513	58.0	9.00	16.0	10.3	105	758
25...	1434	80513	58.0	12.0	16.0	10.4	106	758
25...	1440	80513	175	0.0	16.0	10.2	104	758
25...	1441	80513	175	3.00	16.0	10.2	104	758
25...	1442	80513	175	6.00	16.0	10.2	104	758
25...	1444	80513	175	9.00	16.0	10.4	106	758
25...	1446	80513	175	11.0	16.0	10.4	106	758
25...	1450	80513	292	0.0	16.0	10.4	106	758
25...	1452	80513	292	3.00	16.0	10.4	106	758
25...	1454	80513	292	6.00	16.0	10.2	104	758
25...	1456	80513	292	8.00	16.0	10.3	105	758

07060841 WHITE RIVER BELOW L&D 3 NEAR ST. JAMES, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUL								
12...	0920	80513	58.0	0.0	16.0	9.7	99	760
12...	0921	80513	58.0	3.00	16.0	9.6	98	760
12...	0923	80513	58.0	6.00	16.0	9.4	96	760
12...	0925	80513	58.0	9.00	16.0	9.4	96	760
12...	0926	80513	58.0	11.0	16.0	9.5	97	760
12...	0930	80513	175	0.0	16.0	9.7	99	760
12...	0933	80513	175	3.00	16.0	9.7	99	760
12...	0935	80513	175	6.00	16.0	9.5	97	760
12...	0936	80513	175	9.00	16.0	9.5	97	760
12...	0937	80513	175	12.0	16.0	9.5	97	760
12...	0938	80513	175	13.0	16.0	9.5	97	760
12...	0945	80513	292	0.0	16.0	9.6	98	760
12...	0946	80513	292	3.00	16.0	9.7	99	760
12...	0949	80513	292	6.00	16.0	9.8	100	760
12...	0950	80513	292	7.00	16.0	9.7	99	760
23...	1345	80513	292	0.0	16.5	9.8	101	757
23...	1346	80513	292	3.00	16.5	9.5	98	757
23...	1347	80513	292	6.00	16.5	9.5	98	757
23...	1348	80513	292	9.00	16.5	9.5	98	757
23...	1349	80513	292	12.0	16.5	9.5	98	757
23...	1350	80513	175	0.0	16.5	9.7	100	757
23...	1351	80513	175	3.00	16.0	9.5	97	757
23...	1352	80513	175	6.00	16.0	9.4	96	757
23...	1353	80513	175	9.00	16.0	9.4	96	757
23...	1354	80513	175	12.0	16.0	9.5	97	757
23...	1355	80513	175	14.0	16.0	9.5	97	757
23...	1358	80513	58.0	0.0	16.0	9.6	98	757
23...	1359	80513	58.0	3.00	16.0	9.5	97	757
23...	1400	80513	58.0	6.00	16.0	9.4	96	757
23...	1401	80513	58.0	9.00	16.0	9.5	97	757
23...	1402	80513	58.0	12.0	16.0	9.6	98	757
23...	1403	80513	58.0	14.0	16.0	9.6	98	757

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
AUG								
07...	0822	80513	58.0	0.0	16.5	10.1	104	762
07...	0823	80513	58.0	3.00	16.5	10.3	106	762
07...	0824	80513	58.0	6.00	16.5	10.3	106	762
07...	0825	80513	58.0	9.00	16.5	10.4	107	762
07...	0826	80513	58.0	12.0	16.5	10.3	106	762
07...	0830	80513	175	0.0	16.5	10.2	105	762
07...	0831	80513	175	3.00	16.5	10.2	105	762
07...	0832	80513	175	6.00	16.5	10.2	105	762
07...	0833	80513	175	9.00	16.5	10.2	105	762
07...	0834	80513	175	12.0	16.5	10.3	106	762
07...	0835	80513	175	13.0	16.5	10.3	106	762
07...	0840	80513	292	0.0	16.5	10.1	104	762
07...	0841	80513	292	3.00	16.5	10.3	106	762
07...	0842	80513	292	6.00	16.5	10.3	106	762
22...	1320	80513	58.0	0.0	18.5	9.5	102	756
22...	1321	80513	58.0	3.00	18.5	9.2	99	756
22...	1322	80513	58.0	6.00	18.5	9.3	100	756
22...	1323	80513	58.0	9.00	18.0	9.3	99	756
22...	1324	80513	58.0	12.0	18.0	9.3	99	756
22...	1325	80513	58.0	14.0	18.0	9.4	100	756
22...	1328	80513	175	0.0	18.0	9.4	100	756
22...	1329	80513	175	3.00	18.0	9.3	99	756
22...	1330	80513	175	6.00	18.0	9.3	99	756
22...	1331	80513	175	9.00	18.0	9.4	100	756
22...	1332	80513	175	12.0	18.0	9.4	100	756
22...	1333	80513	175	14.0	18.0	9.4	100	756
22...	1335	80513	292	0.0	18.5	9.4	101	756
22...	1336	80513	292	3.00	18.5	9.2	99	756
22...	1337	80513	292	6.00	18.5	9.1	98	756
22...	1338	80513	292	9.00	18.5	9.2	99	756
22...	1339	80513	292	11.0	18.5	9.6	103	756

07060841 WHITE RIVER BELOW L&D 3 NEAR ST. JAMES, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
SEP								
04...	1220	80513	58.0	0.0	17.5	9.3	98	761
04...	1221	80513	58.0	3.00	17.5	9.0	95	761
04...	1222	80513	58.0	6.00	17.5	8.9	94	761
04...	1223	80513	58.0	9.00	17.5	8.7	92	761
04...	1224	80513	58.0	12.0	17.5	8.7	92	761
04...	1228	80513	175	0.0	17.5	9.7	102	761
04...	1229	80513	175	3.00	17.5	9.1	96	761
04...	1230	80513	175	6.00	17.5	9.1	96	761
04...	1231	80513	175	9.00	17.5	8.9	94	761
04...	1232	80513	175	12.0	17.5	9.0	95	761
04...	1233	80513	175	15.0	17.5	9.2	97	761
04...	1236	80513	292	0.0	17.5	9.0	95	761
04...	1237	80513	292	3.00	17.5	8.9	94	761
04...	1238	80513	292	6.00	17.5	9.0	95	761
04...	1239	80513	292	9.00	17.5	9.0	95	761
04...	1240	80513	292	12.0	17.5	9.1	96	761
18...	1205	80513	58.0	0.0	19.0	9.0	97	757
18...	1206	80513	58.0	3.00	19.0	9.2	99	757
18...	1207	80513	58.0	6.00	19.0	9.7	104	757
18...	1208	80513	58.0	8.00	19.0	9.7	104	757
18...	1212	80513	175	0.0	19.0	9.8	105	757
18...	1213	80513	175	3.00	19.0	9.9	106	757
18...	1214	80513	175	6.00	19.0	9.8	105	757
18...	1215	80513	175	9.00	19.0	9.7	104	757
18...	1220	80513	292	0.0	19.0	9.4	101	757
18...	1221	80513	292	3.00	19.0	9.7	104	757
18...	1222	80513	292	6.00	19.0	9.8	105	757

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	6.2	4.8	5.4
2	---	---	---	---	---	---	---	---	---	5.8	5.1	5.3
3	---	---	---	---	---	---	---	---	---	6.2	5.2	5.7
4	---	---	---	---	---	---	---	---	---	5.8	5.4	5.7
5	---	---	---	---	---	---	---	---	---	5.9	5.3	5.7
6	---	---	---	---	---	---	---	---	---	6.3	5.4	5.7
7	---	---	---	---	---	---	---	---	---	5.6	5.2	5.3
8	---	---	---	---	---	---	---	---	---	6.2	4.7	5.3
9	---	---	---	---	---	---	---	---	---	6.4	5.3	5.8
10	---	---	---	---	---	---	---	---	---	6.6	5.5	6.0
11	---	---	---	---	---	---	---	---	---	7.3	6.2	6.7
12	---	---	---	---	---	---	---	---	---	7.2	6.2	6.6
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	5.6	5.0	5.2
15	---	---	---	---	---	---	---	---	---	5.9	4.8	5.3
16	---	---	---	---	---	---	---	---	---	8.1	6.2	6.9
17	---	---	---	---	---	---	---	---	---	9.5	8.1	8.8
18	---	---	---	---	---	---	---	---	---	10.3	9.5	9.9
19	---	---	---	---	---	---	---	---	---	9.4	7.3	8.3
20	---	---	---	---	---	---	---	---	---	12.1	7.3	8.6
21	---	---	---	---	---	---	---	---	---	11.6	10.5	10.9
22	---	---	---	---	---	---	---	---	---	10.6	7.6	8.1
23	---	---	---	---	---	---	---	---	---	8.0	7.8	7.9
24	---	---	---	---	---	---	---	---	---	8.8	7.8	8.2
25	---	---	---	---	---	---	---	---	---	8.8	8.0	8.4
26	---	---	---	---	---	---	---	---	---	9.8	6.8	7.7
27	---	---	---	---	---	---	---	---	---	10.4	7.4	9.1
28	---	---	---	---	---	---	1.8	.7	1.3	10.6	7.9	9.6
29	---	---	---	---	---	---	3.6	1.9	2.7	9.7	6.9	8.0
30	---	---	---	---	---	---	4.7	3.6	4.2	7.4	6.4	7.0
31	---	---	---	---	---	---	5.8	4.8	5.2	8.0	6.9	7.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07060841 WHITE RIVER BELOW L&D 3 NEAR ST. JAMES, ARKANSAS--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.2	7.8	9.1	---	---	---	---	---	---	13.2	11.9	12.4
2	14.4	9.7	10.9	---	---	---	13.6	12.3	13.0	12.1	11.6	11.9
3	15.6	12.0	13.6	8.7	7.6	8.2	12.8	11.4	11.9	---	---	---
4	15.2	13.9	14.4	9.1	7.8	8.4	11.9	10.6	11.3	---	---	---
5	14.4	12.1	13.4	9.1	8.3	8.7	11.7	10.4	11.1	---	---	---
6	13.4	9.0	11.5	8.8	8.4	8.7	10.6	10.0	10.2	17.6	16.2	16.8
7	13.9	10.3	12.7	9.0	8.6	8.7	10.6	9.4	9.9	18.7	16.7	17.6
8	14.6	11.8	13.1	10.7	9.2	10.3	10.8	9.8	10.2	18.8	18.0	18.3
9	15.5	12.0	14.1	12.1	10.7	11.4	10.4	10.0	10.2	18.3	17.3	17.6
10	15.3	11.3	13.5	13.2	12.1	12.7	10.6	9.9	10.2	17.9	16.9	17.3
11	14.3	9.7	12.2	14.7	12.9	13.8	10.9	9.8	10.3	17.6	16.2	17.0
12	15.7	10.7	13.6	14.7	13.7	14.2	10.8	9.9	10.5	16.9	15.8	16.2
13	15.3	12.2	13.7	13.8	12.1	13.1	11.1	10.6	10.8	17.4	16.3	16.7
14	14.6	10.8	13.6	13.8	11.7	12.3	11.3	10.4	10.8	18.2	16.8	17.5
15	18.1	12.0	15.6	12.3	10.9	11.5	11.1	10.2	10.8	19.3	18.3	18.7
16	17.2	9.1	13.8	13.1	10.9	11.9	11.4	9.9	10.6	19.5	18.3	18.8
17	10.3	8.1	8.9	13.0	11.8	12.3	12.9	11.4	12.2	18.7	17.4	17.9
18	9.8	8.1	8.7	11.6	10.4	10.8	13.1	10.9	11.8	17.3	15.8	16.6
19	13.6	8.2	11.0	10.5	9.8	10.3	13.3	12.7	13.0	16.2	15.2	15.6
20	13.7	12.6	13.1	9.8	9.2	9.5	12.9	12.5	12.7	18.3	16.3	17.3
21	---	---	---	10.2	9.2	9.6	14.2	12.5	13.3	18.1	15.7	16.9
22	---	---	---	10.6	9.4	9.9	15.9	14.2	15.1	17.6	16.5	17.1
23	---	---	---	10.0	8.9	9.7	17.0	15.1	16.0	18.6	16.9	17.6
24	---	---	---	9.0	8.1	8.7	17.3	15.7	16.6	18.9	17.9	18.5
25	---	---	---	8.4	8.0	8.2	17.4	16.4	17.0	19.7	18.3	18.9
26	---	---	---	9.0	8.4	8.7	16.4	15.1	15.8	19.0	15.8	17.9
27	---	---	---	9.2	8.7	8.9	14.9	12.7	13.8	---	---	---
28	---	---	---	9.1	8.7	8.9	13.2	12.5	12.7	---	---	---
29	---	---	---	9.1	8.7	8.8	13.8	12.5	13.0	19.1	17.2	17.9
30	---	---	---	10.4	9.1	9.9	14.5	13.3	13.8	17.8	16.4	17.2
31	---	---	---	11.7	10.2	10.8	---	---	---	17.3	16.2	16.6
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.3	15.8	16.9	17.6	15.9	16.6	16.1	15.5	15.8	---	---	---
2	19.1	17.8	18.4	17.1	15.8	16.4	16.7	15.7	16.1	---	---	---
3	19.3	17.7	18.6	17.6	15.9	16.6	16.6	16.3	16.4	---	---	---
4	19.7	18.8	19.3	17.7	15.9	16.6	16.3	15.8	16.1	---	---	---
5	19.8	19.3	19.6	17.7	15.8	16.5	16.7	15.8	16.3	---	---	---
6	21.8	19.8	20.6	---	---	---	17.2	16.3	16.7	---	---	---
7	21.1	20.0	20.6	---	---	---	16.6	16.1	16.4	---	---	---
8	21.8	20.9	21.3	---	---	---	16.6	15.7	16.2	---	---	---
9	21.9	20.8	21.4	---	---	---	17.0	15.7	16.3	---	---	---
10	21.2	20.2	20.7	---	---	---	17.3	16.0	16.6	---	---	---
11	20.5	19.4	20.1	16.7	15.3	15.9	17.3	16.2	16.7	---	---	---
12	20.1	18.4	19.1	15.4	14.3	14.7	16.9	16.0	16.4	---	---	---
13	19.1	17.0	17.9	15.7	13.9	14.6	---	---	---	---	---	---
14	18.3	16.9	17.6	14.7	13.8	14.3	---	---	---	---	---	---
15	17.4	15.7	16.4	15.1	13.7	14.3	---	---	---	---	---	---
16	17.5	15.4	16.4	16.1	14.3	15.1	---	---	---	---	---	---
17	17.3	15.6	16.3	16.4	14.7	15.4	---	---	---	---	---	---
18	16.7	15.5	16.1	17.0	15.1	15.9	---	---	---	---	---	---
19	16.7	15.8	16.2	17.2	15.2	16.0	---	---	---	---	---	---
20	16.8	15.9	16.3	17.2	15.4	16.1	---	---	---	---	---	---
21	16.2	14.9	15.4	16.6	15.8	16.1	---	---	---	---	---	---
22	15.6	14.4	15.0	17.1	15.9	16.4	---	---	---	---	---	---
23	17.3	15.4	16.2	15.9	15.4	15.7	---	---	---	---	---	---
24	16.9	16.0	16.4	16.9	15.3	15.9	---	---	---	---	---	---
25	15.9	15.1	15.6	17.1	15.9	16.3	---	---	---	---	---	---
26	15.2	14.4	14.7	16.6	15.4	15.9	---	---	---	---	---	---
27	15.8	14.4	15.0	16.6	15.4	15.9	---	---	---	---	---	---
28	17.2	15.6	16.3	17.7	15.8	16.6	---	---	---	---	---	---
29	17.6	15.8	16.6	17.8	16.5	17.1	---	---	---	---	---	---
30	16.9	15.7	16.2	16.9	16.1	16.4	---	---	---	---	---	---
31	---	---	---	17.4	16.1	16.5	---	---	---	---	---	---
MONTH	21.9	14.4	17.6	---	---	---	---	---	---	---	---	---

07060870 WHITE RIVER AT L&D 2 NEAR LOCUST GROVE, ARKANSAS

LOCATION.--Lat 35°44'37", long 91°46'12", in NW ¼ sec.29, T.13 N., R.7 W., Independence County, Hydrologic Unit 11010004, 1500 ft above Dam No. 2 on White River near Locust Grove.

PERIOD OF RECORD.--January 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
18...	1120	80513	58.0	0.0	14.0	10.5	102	760
18...	1121	80513	58.0	3.00	14.0	10.6	103	760
18...	1122	80513	58.0	6.00	14.0	10.5	102	760
18...	1123	80513	58.0	9.00	14.0	10.5	102	760
18...	1124	80513	58.0	11.0	14.0	10.6	103	760
18...	1128	80513	175	0.0	14.0	10.6	103	760
18...	1129	80513	175	3.00	14.0	10.6	103	760
18...	1130	80513	175	6.00	14.0	10.5	102	760
18...	1131	80513	175	8.00	14.0	10.5	102	760
18...	1134	80513	292	0.0	14.0	10.6	103	760
18...	1135	80513	292	3.00	14.0	10.6	103	760
18...	1136	80513	292	6.00	14.0	10.6	103	760
18...	1137	80513	292	8.00	14.0	10.5	102	760
30...	1620	80513	175	0.0	16.0	9.4	96	755
30...	1621	80513	175	3.00	16.0	9.2	94	755
30...	1622	80513	175	6.00	16.0	9.1	93	755
30...	1623	80513	175	9.00	16.0	9.2	94	755
30...	1624	80513	175	12.0	16.0	9.4	96	755
30...	1625	80513	175	15.0	16.0	9.2	94	755
30...	1626	80513	175	18.0	16.0	9.2	94	755

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUN								
11...	1510	80513	175	0.0	21.0	9.2	103	760
11...	1511	80513	175	3.00	21.0	9.2	103	760
11...	1513	80513	175	6.00	21.0	8.9	100	760
11...	1514	80513	175	9.00	21.0	8.9	100	760
11...	1515	80513	175	12.0	21.0	9.2	103	760
25...	1315	80513	175	0.0	16.0	10.0	102	758
25...	1317	80513	175	3.00	16.0	10.0	102	758
25...	1319	80513	175	6.00	16.0	10.0	102	758
25...	1321	80513	175	9.00	16.0	10.0	102	758
25...	1323	80513	175	12.0	16.0	9.9	101	758
25...	1325	80513	175	14.0	16.0	9.9	101	758

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUL								
12...	1025	80513	175	0.0	17.0	9.1	95	760
12...	1026	80513	175	3.00	17.0	9.2	96	760
12...	1028	80513	175	6.00	17.0	9.0	94	760
12...	1030	80513	175	9.00	17.0	9.1	95	760
12...	1032	80513	175	12.0	16.5	9.0	94	760
23...	1428	80513	175	0.0	17.0	9.4	98	757
23...	1429	80513	175	3.00	17.0	9.3	97	757
23...	1430	80513	175	6.00	17.0	9.1	95	757
23...	1431	80513	175	9.00	17.0	9.1	95	757
23...	1432	80513	175	12.0	17.0	9.1	95	757

07060870 WHITE RIVER AT L&D 2 NEAR LOCUST GROVE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
AUG								
06...	1510	80513	175	0.0	17.0	9.3	97	761
06...	1511	80513	175	3.00	17.0	9.4	98	761
06...	1512	80513	175	6.00	17.0	9.4	98	761
06...	1513	80513	175	9.00	17.0	9.4	98	761
06...	1514	80513	175	12.0	17.0	9.5	99	761
22...	1630	80513	175	0.0	19.0	9.4	99	756
22...	1631	80513	175	3.00	18.5	9.6	103	756
22...	1632	80513	175	6.00	18.5	9.6	103	756
22...	1633	80513	175	9.00	18.5	9.7	104	756
22...	1634	80513	175	12.0	18.5	9.8	105	756
22...	1635	80513	175	13.0	18.5	9.8	105	756

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
SEP								
04...	1300	80513	175	0.0	17.5	9.8	103	761
04...	1301	80513	175	3.00	17.5	9.9	104	761
04...	1302	80513	175	6.00	17.5	9.8	103	761
04...	1303	80513	175	9.00	17.5	9.9	104	761
04...	1304	80513	175	12.0	17.5	9.8	103	761
04...	1305	80513	175	15.0	17.5	10.0	105	761
04...	1306	80513	175	17.0	17.5	10.1	106	761
18...	1255	80513	175	0.0	19.5	8.9	97	757
18...	1256	80513	175	3.00	19.5	9.1	99	757
18...	1257	80513	175	6.00	19.5	8.3	90	757
18...	1258	80513	175	9.00	19.5	7.0	76	757
18...	1259	80513	175	11.0	19.5	6.2	67	757

07060871 WHITE RIVER BELOW L&D 2 NEAR LOCUST GROVE, ARKANSAS

LOCATION.--Lat 35°44'46", long 91°45'43", in NE ¼ sec.29, T.13 N., R.7 W., Independence County, Hydrologic Unit 11010004, 1500 ft below Dam No. 2 on White River near Locust Grove.

PERIOD OF RECORD.--May to September 1990.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
17...	1655	80513	292	0.0	16.0	9.4	96	760
17...	1656	80513	292	3.00	16.0	9.4	96	760
17...	1657	80513	292	6.00	16.0	9.4	96	760
17...	1658	80513	292	8.00	16.0	9.5	97	760
17...	1701	80513	175	0.0	16.0	9.5	97	760
17...	1702	80513	175	3.00	16.0	9.4	96	760
17...	1703	80513	175	6.00	16.0	9.4	96	760
17...	1704	80513	175	8.00	16.0	9.5	97	760
17...	1708	80513	58.0	0.0	16.0	9.4	96	760
17...	1709	80513	58.0	3.00	16.0	9.3	95	760
31...	1000	80513	58.0	0.0	15.5	10.0	100	758
31...	1001	80513	58.0	3.00	15.5	9.8	98	758
31...	1002	80513	58.0	6.00	15.5	9.7	97	758
31...	1003	80513	58.0	9.00	15.5	9.7	97	758
31...	1007	80513	175	0.0	15.5	10.0	100	758
31...	1008	80513	175	3.00	15.5	10.1	101	758
31...	1009	80513	175	6.00	15.5	10.0	100	758
31...	1010	80513	175	9.00	15.5	10.0	100	758
31...	1014	80513	292	0.0	15.5	9.9	99	758
31...	1015	80513	292	3.00	15.5	9.9	99	758
31...	1016	80513	292	6.00	15.5	10.0	100	758

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUN								
12...	0800	80513	58.0	0.0	20.5	9.4	104	760
12...	0801	80513	58.0	3.00	20.5	9.3	103	760
12...	0802	80513	58.0	6.00	20.5	9.3	103	760
12...	0806	80513	175	0.0	20.5	9.5	106	760
12...	0808	80513	175	3.00	20.5	9.5	106	760
12...	0810	80513	175	6.00	20.5	9.5	106	760
12...	0815	80513	292	0.0	20.5	9.6	107	760
12...	0817	80513	292	3.00	20.5	9.6	107	760
26...	0930	80513	58.0	0.0	15.5	9.9	99	758
26...	0932	80513	58.0	3.00	15.5	9.8	98	758
26...	0935	80513	58.0	6.00	15.5	9.8	98	758
26...	0938	80513	58.0	7.00	15.5	9.8	98	758
26...	0945	80513	175	0.0	15.5	9.8	98	758
26...	0947	80513	175	3.00	15.5	9.8	98	758
26...	0950	80513	175	6.00	15.5	9.6	96	758
26...	0953	80513	175	8.00	15.0	9.8	97	758
26...	1000	80513	292	0.0	15.5	9.8	98	758
26...	1003	80513	292	3.00	15.0	9.8	97	758
26...	1005	80513	292	6.00	15.0	9.8	97	758
26...	1008	80513	292	8.00	15.0	9.7	96	758

07060871 WHITE RIVER BELOW L&D 2 NEAR LOCUST GROVE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUL								
12...	0700	80513	58.0	0.0	17.0	9.7	101	760
12...	0701	80513	58.0	3.00	17.0	9.7	101	760
12...	0702	80513	58.0	6.00	17.0	9.6	100	760
12...	0703	80513	58.0	9.00	17.0	9.6	100	760
12...	0706	80513	175	0.0	17.0	9.7	101	760
12...	0707	80513	175	3.00	17.0	9.7	101	760
12...	0708	80513	175	6.00	17.0	9.7	101	760
12...	0709	80513	175	9.00	17.0	9.8	102	760
12...	0712	80513	292	0.0	17.0	10.0	104	760
12...	0714	80513	292	3.00	17.0	10.0	104	760
24...	1015	80513	58.0	0.0	16.0	9.7	99	759
24...	1016	80513	58.0	3.00	16.0	9.7	99	759
24...	1025	80513	175	0.0	16.0	10.0	102	759
24...	1026	80513	175	3.00	16.0	9.9	101	759
24...	1027	80513	175	6.00	16.0	9.9	101	759
24...	1028	80513	175	9.00	16.0	9.7	99	759
24...	1035	80513	292	0.0	16.0	9.8	100	759
24...	1036	80513	292	3.00	16.0	9.7	99	759
24...	1037	80513	292	6.00	16.0	9.7	99	759
24...	1038	80513	292	9.00	16.0	9.7	99	759

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
AUG								
06...	1335	80513	175	0.0	17.0	10.1	105	761
06...	1336	80513	175	3.00	17.0	10.0	104	761
06...	1337	80513	175	6.00	17.0	10.0	104	761
06...	1338	80513	175	9.00	17.0	10.0	104	761
06...	1339	80513	175	10.0	17.0	10.0	104	761
06...	1340	80513	292	0.0	17.0	9.8	102	761
06...	1341	80513	292	3.00	17.0	9.9	103	761
06...	1342	80513	292	6.00	17.0	9.9	103	761
06...	1343	80513	292	9.00	17.0	9.8	102	761
06...	1345	80513	58.0	0.0	17.0	9.8	102	761
06...	1346	80513	58.0	3.00	17.0	9.9	103	761
06...	1347	80513	58.0	6.00	17.0	9.9	103	761
06...	1348	80513	58.0	9.00	17.0	9.7	101	761
23...	0830	80513	58.0	0.0	17.5	10.1	106	756
23...	0831	80513	58.0	3.00	17.5	9.7	102	756
23...	0832	80513	58.0	6.00	17.5	9.3	98	756
23...	0833	80513	58.0	7.00	17.5	9.4	99	756
23...	0835	80513	175	0.0	17.5	9.4	99	756
23...	0836	80513	175	3.00	17.5	9.4	99	756
23...	0837	80513	175	6.00	17.5	9.4	99	756
23...	0840	80513	292	0.0	17.5	9.3	98	756
23...	0841	80513	292	3.00	17.5	9.4	99	756
23...	0842	80513	292	6.00	17.5	9.5	100	756
23...	0843	80513	292	8.00	17.5	9.6	101	756

07060871 WHITE RIVER BELOW L&D 2 NEAR LOCUST GROVE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
SEP								
04...	1500	80513	58.0	0.0	18.0	10.1	107	760
04...	1501	80513	58.0	3.00	18.0	9.7	103	760
04...	1502	80513	58.0	6.00	18.0	9.6	102	760
04...	1503	80513	58.0	9.00	18.0	9.6	102	760
04...	1504	80513	58.0	11.0	18.0	9.7	103	760
04...	1508	80513	175	0.0	18.0	9.9	105	760
04...	1509	80513	175	3.00	18.0	9.8	104	760
04...	1510	80513	175	6.00	18.0	9.7	103	760
04...	1511	80513	175	9.00	18.0	9.8	104	760
04...	1512	80513	175	11.0	18.0	9.8	104	760
04...	1515	80513	292	0.0	18.0	10.1	107	760
04...	1516	80513	292	3.00	18.0	9.8	104	760
04...	1517	80513	292	6.00	18.0	9.6	102	760
04...	1518	80513	292	9.00	18.0	9.7	103	760
04...	1519	80513	292	12.0	18.0	9.7	103	760
19...	0820	80513	58.0	0.0	19.0	8.9	96	756
19...	0822	80513	58.0	3.00	19.0	7.8	84	756
19...	0824	80513	58.0	6.00	19.0	5.8	62	756
19...	0826	80513	58.0	9.00	19.0	4.7	51	756
19...	0827	80513	58.0	11.0	19.0	4.3	46	756
19...	0832	80513	175	0.0	18.5	8.9	96	756
19...	0834	80513	175	3.00	18.5	9.2	99	756
19...	0836	80513	175	5.00	18.5	8.7	94	756
19...	0840	80513	292	0.0	18.5	9.0	97	756
19...	0842	80513	292	3.00	18.5	9.1	98	756
19...	0843	80513	292	6.00	18.5	8.9	96	756

07061000 WHITE RIVER AT BATESVILLE, ARKANSAS

LOCATION.--Lat 35°45'35", long 91°38'28", in NE ¼ NW ¼ sec.21, T.13 N., R.6 W., Independence County, Hydrologic Unit 11010004, at bridge on U.S. Highway 167 in Batesville.

DRAINAGE AREA.--11,070 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1937 to September 1958, October 1986 to current year. Gage-height records collected at lower lock gage since 1904 are published in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 237.72 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 28, 1939, staff gage on upper lock wall of dam no. 1, 0.3 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Satellite telemeter at station. Flow regulated since 1943 by Norfork Lake, capacity, 1,983,000 acre-ft, since July 24, 1951, by Bull Shoals Lake, 59.5 mi upstream, capacity, 5,408,000 acre-ft, since Sept. 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 acre-ft, and since Dec. 26, 1963, by Beaver Lake, capacity, 1,951,500 acre-ft.

AVERAGE DISCHARGE.--25 years (water years 1937-58, 1986-90), 12,500 ft³/s, 9,056,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 324,000 ft³/s Apr. 16, 1945, gage height, 29.43 ft; minimum, 580 ft³/s Sept. 28, 1954; minimum daily, 592 ft³/s Sept. 28, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 31.1 ft, Feb. 1, 1916, at former site, observed by U.S. Army Corps of Engineers (discharge, 382,000 ft³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 138,000 ft³/s May 5, gage height, 20.14 ft; minimum, 800 ft³/s Jan. 3, 13, gage height, 6.27 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3380	5910	4120	934	13000	24500	24400	23800	16500	19800	21900	23100
2	2550	3070	3310	864	19500	25200	20800	31000	16400	22600	21100	25300
3	2240	5460	1670	841	29200	25000	23400	64300	13700	21700	22000	24200
4	9900	7700	1620	1790	20800	20800	22100	118000	12000	22100	22600	25500
5	8640	6520	1800	1450	15500	22400	27300	109000	11800	21300	22800	25300
6	9070	2380	1390	1000	12900	22400	31100	33700	10800	21600	23100	25500
7	9260	3310	1150	1030	12500	23500	30200	21500	12100	21100	22500	25400
8	3330	5530	1590	1210	11700	41500	34900	17500	9790	17500	20200	25300
9	1840	7570	3960	953	9590	31400	35400	14300	9600	15600	20300	24000
10	1760	12200	2850	1290	12900	21700	34200	12800	10000	16700	23400	24500
11	8030	7220	1620	1480	13700	16300	24000	12400	10900	18900	21700	24800
12	8500	3500	1030	1570	8220	16500	23100	11000	12900	19000	21000	23800
13	13800	2020	1780	1070	9610	24300	28600	12200	16200	19000	20900	23200
14	11600	1230	3060	1850	15300	32000	29800	12400	16100	19800	21000	14500
15	9120	4810	3510	1930	23800	40400	32300	13800	19000	21500	21000	10500
16	7100	6810	3410	2030	26900	33400	32500	16600	19400	20100	21300	6620
17	3520	9390	4370	1840	19400	29300	51100	17200	20600	19600	21600	6990
18	5320	11100	2550	3330	20100	28400	39700	18600	22000	18200	21200	7400
19	9880	7380	1760	8330	20100	27200	32300	12800	21000	18300	21200	10800
20	11200	8380	1860	14100	22900	29900	24700	15900	21800	17900	20900	14400
21	10700	3460	1460	13400	23200	32300	26900	28100	21800	19400	21400	16100
22	4630	2870	2030	11700	25300	36400	29400	24500	21800	18800	20800	14500
23	2350	3710	2260	9570	23000	36900	26900	17500	19500	17900	21100	11000
24	2530	6330	4680	7650	24600	38500	22600	15700	19200	19300	21000	8570
25	6910	2300	3350	6700	24400	40400	20800	14200	20100	18500	22100	6810
26	7840	1320	2440	6220	23700	38500	22300	17600	19900	19600	20300	14400
27	4900	1050	1750	5960	21600	39200	27400	24100	19800	20000	22200	14400
28	2420	941	1400	5560	20600	39300	28700	27600	19800	19600	20900	18400
29	2020	1520	965	4300	---	38300	26200	25300	21000	19100	23500	19100
30	1520	5460	1050	4220	---	48100	22600	21100	22200	22000	23300	16000
31	1220	---	1030	8540	---	40800	---	17000	---	20900	23400	---
TOTAL	187080	150451	70825	132712	524020	964800	855700	821500	507690	607400	671700	530390
MEAN	6035	5015	2285	4281	18710	31120	28520	26500	16920	19590	21670	17680
MAX	13800	12200	4680	14100	29200	48100	51100	118000	22200	22600	23500	25500
MIN	1220	941	965	841	8220	16300	20800	11000	9600	15600	20200	6620
AC-FT	371100	298400	140500	263200	1039000	1914000	1697000	1629000	1007000	1205000	1332000	1052000

CAL YR 1989 TOTAL 4479116 MEAN 12270 MAX 111000 MIN 941 AC-FT 8884000
WTR YR 1990 TOTAL 6024268 MEAN 16500 MAX 118000 MIN 841 AC-FT 11950000

07061000 WHITE RIVER AT BATESVILLE, ARKANSAS--Continued

LOCATION.--Lat 35°45'37", long 91°38'28", in SW ¼ NE ¼ sec.21, T.13 N., R.6 W., Independence County, Hydrologic Unit 11010004, on left bank of Lock and Dam 1.

PERIOD OF RECORD.--November 1983 to current year.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
17...	1609	80513	67.0	0.0	16.0	7.9	81	760
17...	1610	80513	67.0	3.00	16.0	7.9	81	760
17...	1611	80513	67.0	6.00	16.0	8.0	82	760
17...	1612	80513	67.0	9.00	16.0	8.0	82	760
17...	1613	80513	67.0	12.0	16.0	8.0	82	760
17...	1614	80513	67.0	15.0	16.0	7.9	81	760
17...	1615	80513	67.0	18.0	16.0	8.0	82	760
17...	1616	80513	67.0	21.0	16.0	7.9	81	760
17...	1617	80513	67.0	24.0	16.0	8.1	83	760
17...	1619	80513	200	0.0	16.0	8.2	84	760
17...	1620	80513	200	3.00	16.0	8.1	83	760
17...	1621	80513	200	6.00	16.0	8.0	82	760
17...	1622	80513	200	9.00	16.0	8.0	82	760
17...	1623	80513	200	12.0	16.0	8.0	82	760
17...	1624	80513	200	15.0	16.0	8.0	82	760
17...	1625	80513	200	18.0	16.0	8.0	82	760
17...	1626	80513	200	20.0	16.0	8.0	82	760
17...	1630	80513	333	0.0	16.0	8.0	82	760
17...	1631	80513	333	3.00	16.0	8.0	82	760
17...	1632	80513	333	6.00	16.0	8.0	82	760
17...	1633	80513	333	9.00	16.0	8.0	82	760
17...	1634	80513	333	12.0	16.0	8.0	82	760
17...	1635	80513	333	13.0	16.0	8.0	82	760
31...	0930	80513	200	0.0	16.0	9.8	100	758
31...	0932	80513	200	3.00	16.0	9.8	100	758
31...	0933	80513	200	6.00	16.0	9.8	100	758
31...	0934	80513	200	9.00	16.0	9.7	99	758
31...	0936	80513	200	12.0	16.0	9.8	100	758
31...	0937	80513	200	15.0	16.0	9.7	99	758
31...	0938	80513	200	18.0	16.0	9.7	99	758
31...	0939	80513	200	21.0	16.0	9.7	99	758

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUN								
12...	0820	80513	200	0.0	20.5	9.1	101	760
12...	0821	80513	200	3.00	20.5	9.1	101	760
12...	0822	80513	200	6.00	20.5	9.0	100	760
12...	0823	80513	200	9.00	20.5	9.0	100	760
12...	0824	80513	200	12.0	20.5	8.9	99	760
12...	0825	80513	200	15.0	20.5	9.0	100	760
12...	0826	80513	200	18.0	20.5	8.6	96	760
12...	0827	80513	200	20.0	20.5	8.8	98	760
26...	0900	80513	200	0.0	16.0	9.9	101	758
26...	0901	80513	200	3.00	16.0	9.8	100	758
26...	0902	80513	200	6.00	16.0	9.6	98	758
26...	0903	80513	200	9.00	16.0	9.7	99	758
26...	0904	80513	200	12.0	16.0	9.3	95	758
26...	0905	80513	200	15.0	16.0	9.2	94	758
26...	0906	80513	200	18.0	16.0	9.1	93	758
26...	0907	80513	200	20.0	16.0	9.3	95	758

07061000 WHITE RIVER AT BATESVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUL								
12...	0730	80513	200	0.0	17.5	9.4	99	760
12...	0731	80513	200	3.00	17.5	9.3	98	760
12...	0732	80513	200	6.00	17.5	8.8	93	760
12...	0733	80513	200	9.00	17.5	9.1	96	760
12...	0734	80513	200	12.0	17.5	9.2	97	760
12...	0735	80513	200	15.0	17.5	9.4	99	760
24...	0930	80513	200	0.0	16.5	9.7	100	759
24...	0931	80513	200	3.00	16.5	9.7	100	759
24...	0932	80513	200	6.00	16.5	9.7	100	759
24...	0933	80513	200	9.00	16.5	9.6	99	759
24...	0934	80513	200	12.0	16.5	9.3	96	759
24...	0935	80513	200	15.0	16.5	8.9	92	759
24...	0936	80513	200	18.0	16.5	9.7	100	759
24...	0937	80513	200	20.0	16.5	9.7	100	759

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
AUG								
06...	1310	80513	200	0.0	17.0	9.9	103	761
06...	1311	80513	200	3.00	17.0	9.9	103	761
06...	1312	80513	200	6.00	16.5	10.0	103	761
06...	1313	80513	200	9.00	16.5	9.9	102	761
06...	1314	80513	200	12.0	16.5	9.9	102	761
06...	1315	80513	200	15.0	16.5	9.9	102	761
06...	1316	80513	200	17.0	16.5	10.0	103	761
23...	0926	80513	200	0.0	18.0	9.0	96	757
23...	0927	80513	200	3.00	18.0	9.3	99	757
23...	0928	80513	200	6.00	18.0	9.4	100	757
23...	0929	80513	200	9.00	18.0	9.5	101	757
23...	0930	80513	200	12.0	17.5	9.5	100	757
23...	0931	80513	200	15.0	17.5	9.6	101	757

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
SEP								
04...	1535	80513	200	0.0	18.0	9.7	103	760
04...	1536	80513	200	3.00	18.0	9.7	103	760
04...	1537	80513	200	6.00	18.0	9.5	101	760
04...	1538	80513	200	9.00	18.0	9.6	102	760
04...	1539	80513	200	12.0	18.0	9.6	102	760
04...	1540	80513	200	15.0	18.0	9.7	103	760
04...	1541	80513	200	18.0	18.0	9.6	102	760
04...	1542	80513	200	21.0	18.0	9.7	103	760
19...	0909	80513	200	0.0	19.5	7.9	86	757
19...	0910	80513	200	3.00	19.5	6.3	68	757
19...	0911	80513	200	6.00	19.5	4.4	48	757
19...	0912	80513	200	9.00	19.5	3.7	40	757
19...	0914	80513	200	12.0	19.5	3.4	37	757
19...	0915	80513	200	15.0	19.5	3.0	33	757
19...	0916	80513	200	18.0	19.5	2.5	27	757
19...	0918	80513	200	19.0	19.5	1.8	20	757

07061001 WHITE RIVER AT L&D 1 AT BATESVILLE, ARKANSAS

LOCATION.--Lat 35°45'12", long 91°37'54", in NW ¼ SW ¼ sec.22, T.13 N., R.6 W., Independence County, Hydrologic Unit 11010004, 2000 ft below Dam No. 1 on White River at Batesville.

PERIOD OF RECORD.--May to September 1990.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
17...	1415	80513	67.0	0.0	16.0	8.8	90	760
17...	1416	80513	67.0	3.00	16.0	8.4	86	760
17...	1417	80513	67.0	6.00	16.0	8.4	86	760
17...	1418	80513	67.0	9.00	16.0	8.4	86	760
17...	1419	80513	67.0	12.0	16.0	8.4	86	760
17...	1420	80513	67.0	15.0	16.0	8.4	86	760
17...	1421	80513	67.0	18.0	16.0	8.4	86	760
17...	1424	80513	200	0.0	16.0	8.3	85	760
17...	1425	80513	200	3.00	16.0	8.3	85	760
17...	1426	80513	200	6.00	16.0	8.2	84	760
17...	1427	80513	200	9.00	16.0	8.2	84	760
17...	1428	80513	200	12.0	16.0	8.1	83	760
17...	1429	80513	200	15.0	16.0	8.1	83	760
17...	1434	80513	333	0.0	16.0	7.8	80	760
17...	1435	80513	333	3.00	16.0	7.8	80	760
17...	1436	80513	333	6.00	16.0	7.8	80	760
17...	1437	80513	333	9.00	16.0	7.8	80	760
17...	1438	80513	333	12.0	16.0	7.9	81	760
31...	0830	80513	67.0	0.0	16.0	10.0	102	758
31...	0831	80513	67.0	3.00	16.0	10.0	102	758
31...	0833	80513	67.0	6.00	16.0	10.0	102	758
31...	0834	80513	67.0	9.00	16.0	9.9	101	758
31...	0836	80513	67.0	10.0	16.0	10.0	102	758
31...	0839	80513	200	0.0	16.0	10.2	104	758
31...	0841	80513	200	3.00	16.0	10.1	103	758
31...	0842	80513	200	6.00	16.0	10.0	102	758
31...	0843	80513	200	9.00	16.0	10.0	102	758
31...	0844	80513	200	11.0	16.0	10.1	103	758
31...	0846	80513	333	0.0	16.0	10.0	102	758
31...	0847	80513	333	3.00	16.0	10.0	102	758
31...	0848	80513	333	6.00	16.0	10.0	102	758
31...	0849	80513	333	7.00	16.0	10.0	102	758

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUN								
12...	0900	80513	67.0	0.0	21.0	9.1	102	760
12...	0901	80513	67.0	3.00	21.0	9.1	102	760
12...	0902	80513	67.0	6.00	21.0	9.1	102	760
12...	0903	80513	67.0	9.00	20.5	9.1	101	760
12...	0906	80513	200	0.0	20.5	9.0	100	760
12...	0907	80513	200	3.00	20.5	9.0	100	760
12...	0908	80513	200	6.00	20.5	8.9	99	760
12...	0910	80513	200	9.00	20.5	9.0	100	760
12...	0914	80513	333	0.0	20.5	9.2	102	760
12...	0915	80513	333	3.00	20.5	9.1	101	760
12...	0916	80513	333	6.00	20.5	9.0	100	760
26...	0730	80513	67.0	0.0	16.5	9.8	101	758
26...	0732	80513	67.0	3.00	16.5	9.6	99	758
26...	0733	80513	67.0	6.00	16.0	9.8	100	758
26...	0735	80513	67.0	9.00	16.0	9.9	101	758
26...	0737	80513	67.0	12.0	16.0	10.0	102	758
26...	0742	80513	200	0.0	16.0	9.9	101	758
26...	0743	80513	200	3.00	16.0	10.0	102	758
26...	0745	80513	200	6.00	16.0	9.9	101	758
26...	0746	80513	200	9.00	16.0	9.9	101	758
26...	0748	80513	200	12.0	16.0	10.2	104	758
26...	0750	80513	333	0.0	16.0	10.6	108	758
26...	0752	80513	333	3.00	16.0	10.4	106	758
26...	0754	80513	333	6.00	16.0	9.7	99	758
26...	0755	80513	333	8.00	16.0	10.0	102	758

07061001 WHITE RIVER AT L&D 1 AT BATESVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
JUL								
11...	1445	80513	67.0	0.0	19.0	10.1	109	760
11...	1447	80513	67.0	3.00	19.0	10.1	109	760
11...	1448	80513	67.0	6.00	19.0	9.9	106	760
11...	1450	80513	67.0	9.00	19.0	9.9	106	760
11...	1452	80513	67.0	12.0	19.0	9.8	105	760
11...	1454	80513	67.0	14.0	19.0	9.9	106	760
11...	1459	80513	200	0.0	17.5	10.1	106	760
11...	1500	80513	200	3.00	17.5	9.9	104	760
11...	1501	80513	200	6.00	17.5	9.9	104	760
11...	1503	80513	200	9.00	17.5	9.9	104	760
11...	1505	80513	200	12.0	17.5	9.8	103	760
11...	1510	80513	333	0.0	17.5	10.4	109	760
11...	1511	80513	333	3.00	17.5	10.3	108	760
11...	1513	80513	333	6.00	17.5	10.2	107	760
11...	1515	80513	333	7.00	17.5	10.2	107	760
24...	0845	80513	333	0.0	16.5	10.2	105	759
24...	0846	80513	333	3.00	16.5	10.2	105	759
24...	0847	80513	333	6.00	16.5	10.0	103	759
24...	0850	80513	333	7.00	16.5	10.1	104	759
24...	0852	80513	200	0.0	16.0	10.0	102	759
24...	0853	80513	200	3.00	16.0	10.1	103	759
24...	0854	80513	200	6.00	16.0	10.0	102	759
24...	0855	80513	200	9.00	16.0	10.1	103	759
24...	0856	80513	200	12.0	16.0	10.3	105	759
24...	0900	80513	67.0	0.0	16.5	10.0	103	759
24...	0901	80513	67.0	3.00	16.5	10.0	103	759
24...	0902	80513	67.0	6.00	16.5	10.0	103	759
24...	0903	80513	67.0	9.00	16.5	10.0	103	759
24...	0904	80513	67.0	12.0	16.5	10.0	103	759
24...	0905	80513	67.0	14.0	16.5	10.0	103	759

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
AUG								
06...	1115	80513	333	0.0	17.0	10.4	108	760
06...	1116	80513	333	3.00	17.0	10.3	107	760
06...	1117	80513	333	6.00	17.0	10.1	105	760
06...	1118	80513	333	9.00	17.0	10.2	106	760
06...	1125	80513	200	0.0	17.0	10.2	106	760
06...	1126	80513	200	3.00	17.0	10.2	106	760
06...	1127	80513	200	6.00	17.0	10.0	104	760
06...	1128	80513	200	9.00	17.0	10.0	104	760
06...	1129	80513	200	12.0	17.0	10.1	105	760
06...	1200	80513	67.0	0.0	17.0	10.2	106	760
06...	1201	80513	67.0	3.00	17.0	10.3	107	760
06...	1202	80513	67.0	6.00	17.0	10.1	105	760
06...	1203	80513	67.0	9.00	17.0	10.2	106	760
06...	1204	80513	67.0	11.0	17.0	10.2	106	760
23...	0750	80513	67.0	0.0	18.0	10.2	109	757
23...	0751	80513	67.0	3.00	18.0	9.5	101	757
23...	0752	80513	67.0	6.00	18.0	9.6	102	757
23...	0753	80513	67.0	9.00	18.0	9.5	101	757
23...	0754	80513	67.0	12.0	18.0	9.6	102	757
23...	0758	80513	200	0.0	18.0	9.8	104	757
23...	0759	80513	200	3.00	18.0	9.7	103	757
23...	0800	80513	200	6.00	18.0	9.5	101	757
23...	0801	80513	200	9.00	18.0	9.7	103	757
23...	0804	80513	333	0.0	18.0	10.3	110	757
23...	0805	80513	333	3.00	18.0	9.8	104	757
23...	0808	80513	333	6.00	18.0	9.6	102	757
23...	0810	80513	333	9.00	18.0	9.7	103	757
23...	0812	80513	333	11.0	18.0	9.9	105	757

07061001 WHITE RIVER AT L&D 1 AT BATESVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
SEP								
04...	1600	80513	67.0	0.0	18.0	9.8	104	759
04...	1601	80513	67.0	3.00	18.0	9.9	105	759
04...	1602	80513	67.0	6.00	18.0	9.8	104	759
04...	1603	80513	67.0	9.00	18.0	9.9	105	759
04...	1604	80513	67.0	12.0	18.0	9.9	105	759
04...	1605	80513	67.0	15.0	18.0	9.9	105	759
04...	1606	80513	67.0	16.0	18.0	10.1	107	759
04...	1609	80513	200	0.0	18.0	9.8	104	759
04...	1610	80513	200	3.00	18.0	9.9	105	759
04...	1611	80513	200	6.00	18.0	9.8	104	759
04...	1612	80513	200	9.00	18.0	9.8	104	759
04...	1615	80513	200	12.0	18.0	9.9	105	759
04...	1620	80513	200	14.0	18.0	10.0	106	759
04...	1625	80513	333	0.0	18.0	10.0	106	759
04...	1627	80513	333	3.00	18.0	10.1	107	759
04...	1628	80513	333	6.00	18.0	10.0	106	759
04...	1629	80513	333	9.00	18.0	9.9	105	759
04...	1630	80513	333	11.0	18.0	10.1	107	759
19...	0945	80513	67.0	0.0	19.5	8.9	87	756
19...	0946	80513	67.0	3.00	19.5	7.9	77	756
19...	0948	80513	67.0	6.00	19.5	6.8	67	756
19...	0949	80513	67.0	9.00	19.5	7.3	72	756
19...	0950	80513	67.0	10.0	19.5	6.9	68	756
19...	0953	80513	200	0.0	19.5	7.6	75	756
19...	0954	80513	200	3.00	19.5	7.6	75	756
19...	0955	80513	200	6.00	19.5	7.5	74	756
19...	0956	80513	200	9.00	19.5	7.4	73	756
19...	1000	80513	333	0.0	19.5	7.6	75	756
19...	1001	80513	333	3.00	19.5	7.4	73	756
19...	1003	80513	333	6.00	19.5	7.2	71	756

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.3	16.7	17.0	14.9	14.3	14.6	8.4	7.3	7.6	3.9	3.0	3.3
2	18.2	16.9	17.6	14.3	13.3	13.9	7.6	7.0	7.2	3.1	2.9	3.0
3	18.8	17.6	18.2	13.2	11.8	12.4	7.7	6.9	7.2	4.4	2.9	3.6
4	19.5	17.7	18.4	11.7	11.1	11.4	7.3	6.4	6.8	5.1	4.3	4.7
5	17.8	15.2	16.1	12.2	11.1	11.4	7.7	6.5	7.1	5.6	5.1	5.4
6	15.8	15.2	15.3	13.1	12.2	12.6	12.7	6.9	7.7	5.9	5.3	5.6
7	15.6	14.7	15.1	14.4	13.0	13.7	7.7	7.1	7.4	5.8	5.4	5.6
8	14.8	14.1	14.4	15.6	14.2	15.1	7.1	6.0	6.7	6.2	5.4	5.7
9	15.6	14.3	14.9	15.5	13.7	14.6	6.0	5.4	5.7	6.6	5.6	5.9
10	16.7	14.7	15.6	13.6	12.1	12.7	6.1	5.6	5.8	6.8	5.9	6.4
11	17.8	15.6	16.6	13.0	11.7	12.4	5.8	5.5	5.6	7.2	6.6	6.8
12	17.5	15.9	16.5	13.4	12.7	13.1	5.4	4.5	5.0	6.8	6.2	6.5
13	15.9	14.8	15.6	14.2	13.4	13.8	4.7	4.2	4.4	---	---	---
14	15.3	14.6	14.9	15.1	14.0	14.5	4.3	3.7	4.1	---	---	---
15	15.9	14.4	15.2	15.6	14.8	15.1	3.7	1.9	3.2	6.9	5.6	6.2
16	16.5	15.4	15.9	14.6	12.8	13.9	1.9	1.2	1.4	8.1	7.1	7.7
17	16.7	15.9	16.4	12.7	9.2	11.2	1.6	1.3	1.4	8.7	8.0	8.4
18	15.8	14.3	15.2	10.3	8.4	9.4	1.4	.9	1.2	8.3	8.2	8.2
19	14.3	11.4	13.5	11.4	10.3	10.8	1.8	1.0	1.4	9.1	8.2	8.4
20	11.2	10.2	10.7	12.3	11.3	11.8	2.0	1.3	1.7	8.7	7.8	8.1
21	11.3	10.3	10.8	12.3	12.0	12.1	1.6	1.2	1.4	8.1	7.6	7.8
22	12.4	11.2	11.8	12.0	11.1	11.7	1.1	.3	.6	8.3	7.4	7.8
23	13.7	12.4	13.2	11.1	10.6	10.8	1.0	.2	.5	8.2	7.8	8.0
24	15.1	13.6	14.3	10.7	9.4	9.9	.4	.3	.3	8.8	8.0	8.3
25	16.7	14.9	15.6	9.6	9.2	9.4	.6	.3	.4	8.8	8.1	8.4
26	16.7	15.8	16.2	9.9	9.4	9.7	.8	.4	.6	8.3	7.5	7.9
27	15.7	14.8	15.2	11.7	10.0	10.9	1.3	.6	.9	7.9	7.4	7.7
28	15.4	14.7	15.1	11.1	9.9	10.5	1.9	.8	1.3	7.6	7.2	7.3
29	16.3	14.9	15.6	10.4	9.1	9.8	2.2	1.5	1.9	7.7	7.1	7.4
30	16.2	15.3	15.8	9.0	8.4	8.7	3.0	2.2	2.7	7.9	7.4	7.7
31	15.9	14.8	15.3	---	---	---	3.7	2.9	3.2	8.0	7.1	7.5
MONTH	19.5	10.2	15.2	15.6	8.4	12.1	12.7	.2	3.6	---	---	---

07061001 WHITE RIVER AT L&D 1 AT BATESVILLE, ARKANSAS--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.6	7.9	8.6	8.3	7.5	7.8	---	---	---	---	---	---
2	10.5	9.5	9.9	8.2	7.4	7.8	14.0	13.1	13.4	---	---	---
3	10.4	9.9	10.1	8.8	7.9	8.3	13.3	12.5	13.0	---	---	---
4	10.0	9.1	9.6	9.0	8.4	8.7	12.6	11.3	11.9	---	---	---
5	9.3	8.4	8.9	9.3	8.8	9.1	12.4	11.5	12.0	---	---	---
6	8.9	8.2	8.5	9.3	8.9	9.1	11.4	10.5	10.8	---	---	---
7	8.9	8.2	8.6	9.6	9.1	9.2	10.8	9.9	10.4	---	---	---
8	9.4	8.3	8.8	---	---	---	10.9	10.0	10.5	---	---	---
9	9.9	9.3	9.7	12.4	10.9	11.4	10.9	10.3	10.6	---	---	---
10	10.6	9.4	10.0	13.8	12.1	12.8	11.0	10.5	10.8	---	---	---
11	10.4	8.7	9.4	14.6	13.3	13.8	11.3	10.2	10.8	---	---	---
12	9.8	8.7	9.3	15.3	14.6	15.1	11.4	10.5	11.0	---	---	---
13	10.7	9.7	10.2	15.1	13.7	14.4	11.6	10.8	11.2	---	---	---
14	11.2	10.6	10.9	14.3	12.6	13.4	11.9	11.2	11.5	---	---	---
15	12.2	10.4	11.2	13.1	11.6	12.5	11.6	11.2	11.3	18.3	16.7	17.4
16	11.6	10.0	11.1	12.7	11.0	11.7	11.7	10.6	11.1	17.9	17.2	17.6
17	9.7	8.4	9.0	13.2	12.4	12.9	13.2	11.7	12.7	17.6	16.8	17.2
18	8.4	7.9	8.2	12.6	11.3	11.8	12.5	11.5	12.1	16.7	15.6	16.1
19	8.6	7.6	8.1	11.2	10.5	10.9	14.0	12.3	13.4	15.7	15.1	15.4
20	8.5	7.9	8.3	10.5	9.6	10.1	14.2	13.3	13.6	17.9	15.5	16.4
21	8.3	7.7	7.9	10.3	9.3	9.8	14.7	13.3	14.0	17.2	15.6	16.4
22	9.3	8.3	8.9	10.8	9.7	10.3	16.2	14.4	15.2	16.8	16.2	16.4
23	9.1	8.8	8.9	10.8	9.9	10.3	17.1	16.1	16.6	17.7	16.0	16.8
24	8.9	8.3	8.6	9.8	8.6	9.1	18.1	16.8	17.5	19.1	17.0	18.0
25	8.4	7.9	8.2	8.6	8.2	8.3	18.8	17.4	18.0	18.9	17.9	18.4
26	7.8	7.4	7.7	9.1	8.4	8.7	18.0	17.0	17.5	18.7	17.1	18.3
27	9.1	7.9	8.4	9.6	8.7	9.2	17.1	14.2	15.6	---	---	---
28	9.1	8.3	8.8	9.4	9.1	9.2	14.5	13.2	13.8	---	---	---
29	---	---	---	9.3	9.0	9.1	14.3	12.9	13.4	---	---	---
30	---	---	---	10.9	9.3	10.3	---	---	---	---	---	---
31	---	---	---	11.3	10.6	10.9	---	---	---	17.4	16.3	16.7
MONTH	12.2	7.4	9.1	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.2	16.4	16.8	18.0	16.8	17.4	17.1	15.9	16.3	18.1	17.2	17.7
2	19.1	17.0	18.3	17.9	17.2	17.6	16.5	15.2	15.8	18.0	17.1	17.6
3	19.9	18.3	19.1	18.1	16.8	17.4	16.9	16.0	16.4	17.8	17.1	17.5
4	20.8	18.6	19.6	18.0	16.9	17.6	16.4	15.9	16.1	18.1	17.2	17.6
5	21.5	19.4	20.4	18.1	16.9	17.5	16.6	15.7	16.2	18.4	17.0	17.7
6	22.1	20.4	21.2	18.0	16.9	17.4	---	---	---	18.4	17.5	17.9
7	22.7	21.7	22.1	17.6	16.9	17.3	---	---	---	18.1	17.6	17.8
8	---	---	---	18.5	16.3	17.6	---	---	---	17.8	17.1	17.4
9	---	---	---	19.9	17.2	18.8	---	---	---	18.1	17.1	17.6
10	---	---	---	19.6	16.3	18.5	---	---	---	18.1	17.5	17.8
11	22.9	20.1	22.2	19.1	17.6	18.3	17.3	16.5	16.9	17.8	17.1	17.4
12	22.4	21.0	21.6	17.7	17.3	17.5	17.2	16.0	16.7	17.3	16.9	17.1
13	20.9	19.3	20.2	---	---	---	17.0	16.0	16.4	17.1	13.8	15.6
14	19.9	18.8	19.4	16.8	15.3	16.2	17.3	9.8	15.9	13.4	11.3	12.0
15	19.3	17.6	18.8	16.0	14.9	15.5	18.1	16.9	17.4	---	---	---
16	18.1	17.3	17.6	---	---	---	18.3	16.8	17.6	---	---	---
17	18.2	17.7	18.0	17.2	15.8	16.5	18.8	17.3	18.1	---	---	---
18	18.2	17.3	17.7	17.5	15.3	16.7	19.1	17.9	18.6	---	---	---
19	18.1	16.9	17.6	---	---	---	19.2	18.2	18.8	---	---	---
20	18.1	17.1	17.7	---	---	---	19.1	18.3	18.6	19.9	18.9	19.6
21	17.7	16.7	17.0	---	---	---	19.1	17.9	18.6	18.7	18.3	18.5
22	16.6	15.6	16.1	---	---	---	19.4	18.2	18.9	18.9	18.0	18.4
23	17.3	15.3	16.3	17.4	16.3	16.9	19.4	18.2	18.7	18.9	18.1	18.5
24	17.9	16.7	17.3	16.7	15.8	16.2	19.1	17.4	18.6	18.6	17.5	18.1
25	17.3	16.2	16.5	17.3	16.7	17.0	19.2	10.7	18.2	18.8	17.9	18.4
26	16.2	14.6	15.6	17.0	16.1	16.5	19.1	15.8	18.2	19.2	18.2	18.6
27	16.3	14.5	15.6	16.9	16.2	16.5	19.4	18.4	19.0	18.7	17.9	18.3
28	17.5	15.7	16.6	17.5	16.2	16.8	---	---	---	18.8	18.1	18.4
29	17.9	16.7	17.4	17.7	17.1	17.4	---	---	---	18.7	18.0	18.4
30	17.8	17.0	17.4	17.3	16.8	17.1	18.7	17.4	18.0	18.9	17.5	18.3
31	---	---	---	17.0	15.9	16.4	18.4	17.3	17.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07061001 WHITE RIVER AT L&D 1 AT BATESVILLE, ARKANSAS--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	10.2	10.1	10.2
16	---	---	---	---	---	---	---	---	---	10.3	10.1	10.2
17	---	---	---	---	---	---	---	---	---	10.7	10.3	10.5
18	---	---	---	---	---	---	---	---	---	10.9	10.6	10.7
19	---	---	---	---	---	---	---	---	---	10.8	10.5	10.7
20	---	---	---	---	---	---	---	---	---	10.9	10.2	10.4
21	---	---	---	---	---	---	---	---	---	10.7	10.3	10.5
22	---	---	---	---	---	---	---	---	---	10.5	10.3	10.4
23	---	---	---	---	---	---	---	---	---	10.5	10.0	10.3
24	---	---	---	---	---	---	---	---	---	10.0	9.9	10.0
25	---	---	---	---	---	---	---	---	---	9.9	9.7	9.9
26	---	---	---	---	---	---	---	---	---	10.3	9.7	9.9
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	10.0	9.7	9.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.3	9.6	9.9	10.0	9.7	9.8	10.6	9.8	10.1	9.2	8.8	8.9
2	9.7	9.2	9.3	10.3	9.7	9.9	10.5	10.0	10.2	9.2	8.8	9.0
3	9.2	8.9	9.1	10.0	9.6	9.8	10.7	10.0	10.1	9.3	8.8	8.9
4	9.2	8.7	8.9	10.0	9.7	9.9	11.2	9.9	10.1	9.4	8.8	9.0
5	8.9	8.5	8.7	11.4	9.7	10.0	10.2	10.0	10.1	9.3	8.9	9.1
6	8.9	6.8	8.4	11.2	9.7	10.0	---	---	---	9.2	9.0	9.1
7	9.2	8.4	8.6	10.8	9.7	10.0	---	---	---	9.6	9.0	9.1
8	9.1	7.2	8.0	9.9	9.6	9.7	---	---	---	9.3	9.0	9.2
9	9.2	7.2	8.4	9.9	9.4	9.6	---	---	---	9.4	9.1	9.2
10	9.5	7.1	8.6	10.3	9.4	9.7	---	---	---	10.0	9.1	9.3
11	9.6	7.3	8.9	9.7	9.5	9.6	10.4	9.4	9.7	9.5	9.3	9.4
12	9.6	9.1	9.3	10.0	9.4	9.6	10.3	9.3	9.5	11.4	9.3	9.6
13	9.7	9.3	9.5	13.7	9.5	9.9	10.7	9.3	9.6	---	---	---
14	9.8	9.3	9.6	13.3	9.4	9.9	11.1	9.2	9.5	---	---	---
15	9.9	9.3	9.6	11.6	9.7	10.1	9.7	9.0	9.3	---	---	---
16	10.2	9.6	9.8	10.4	9.6	9.9	10.6	8.6	9.3	---	---	---
17	11.2	9.6	10.1	10.6	9.5	9.8	11.5	8.8	9.2	---	---	---
18	10.6	9.7	9.9	11.4	9.3	9.7	9.5	8.5	8.8	---	---	---
19	10.3	9.7	9.9	10.0	9.0	9.5	11.5	8.5	9.1	---	---	---
20	---	---	---	13.5	8.9	9.6	---	---	---	9.7	9.3	9.5
21	10.4	9.7	9.9	11.0	9.1	9.6	9.6	8.6	8.9	9.8	9.5	9.6
22	10.9	9.9	10.2	10.4	8.3	9.4	10.4	8.5	8.8	10.0	9.4	9.7
23	12.9	9.8	10.4	10.2	8.8	9.1	11.0	8.2	8.8	10.1	9.3	9.6
24	10.4	9.5	9.9	10.4	9.1	9.7	11.7	9.0	9.4	9.8	9.2	9.5
25	10.6	9.4	10.0	10.0	9.6	9.8	10.4	9.1	9.5	9.8	9.1	9.3
26	10.8	9.8	10.4	11.0	9.7	10.1	10.1	9.2	9.5	11.5	9.3	9.8
27	10.4	10.2	10.3	10.2	9.7	9.9	10.9	9.5	9.8	11.5	9.2	9.6
28	10.2	9.9	10.0	10.9	9.7	10.0	---	---	---	---	---	---
29	10.1	9.8	10.0	10.3	9.6	9.8	---	---	---	10.0	9.3	9.6
30	10.2	9.8	10.0	10.7	9.6	10.0	10.1	8.9	9.2	11.5	9.1	9.5
31	---	---	---	10.9	9.8	10.1	9.3	8.9	9.0	---	---	---
MONTH	---	---	---	13.7	8.3	9.8	---	---	---	---	---	---

07061105 WHITE RIVER AT OIL TROUGH, ARKANSAS

LOCATION.--Lat 35°38'36", long 92°27'42", in NW ¼ NE ¼ 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 north of Oil Trough.

DRAINAGE AREA.--11,234 mi².

PERIOD OF RECORD.--April 1974 to September 1983, October 1984 to current year.

REMARKS.--Flow regulated by upstream reservoirs.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1330	9827	9827	8.3	18.5	2.5	10.2	1.1	150
NOV									
07.	1530	9827	9827	8.4	15.0	1.6	11.4	1.1	140
DEC									
12.	1630	9827	9827	8.4	3.0	2.0	14.1	0.8	170
JAN									
09.	1430	9827	9827	8.2	8.0	2.0	12.5	1.0	160
FEB									
13.	1345	9827	9827	7.9	11.0	20	10.0	2.9	130
MAR									
13.	1200	9827	9827	8.0	16.0	8.5	9.9	1.1	120
APR									
03.	1230	9827	9827	7.9	13.0	--	10.2	0.9	120
MAY									
08.	1300	9827	9827	7.5	19.0	110	7.3	2.0	130
JUN									
12.	1235	9827	9827	8.1	22.0	--	9.2	4.6	150
JUL									
17.	1145	9827	9827	7.9	19.0	--	9.3	0.5	--
AUG									
11.	1330	9827	9827	8.0	18.0	--	10.0	0.5	120
14.	1200	9827	9827	8.2	19.0	--	10.0	2.9	130

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
10.	1330	11	6.1	161	5	0.400	<0.050	<0.030
NOV								
07.	1530	12	5.6	157	3	0.170	<0.050	<0.030
DEC								
12.	1630	12	5.8	170	3	0.030	<0.050	0.040
JAN								
09.	1430	11	5.0	172	2	--	<0.050	0.070
FEB								
13.	1345	7.0	4.5	131	26	0.270	<0.050	0.080
MAR								
13.	1200	7.0	4.0	117	14	0.250	<0.050	0.100
APR								
03.	1230	7.0	3.2	146	14	0.280	0.050	0.080
MAY								
08.	1300	8.0	2.8	163	210	0.500	0.060	0.320
JUN								
12.	1235	6.0	4.5	147	8	0.190	<0.050	0.030
JUL								
17.	1145	7.0	4.6	139	6	0.340	<0.050	0.030
AUG								
11.	1330	8.0	5.1	140	13	0.420	<0.050	0.060
14.	1200	6.0	5.0	142	20	0.400	0.060	0.060

07061105 WHITE RIVER AT OIL TROUGH, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1330	0.030	<1	1	<15	<2	<10	--
NOV								
07.	1530	<0.030	<1	5	<15	3	20	4.2
DEC								
12.	1630	<0.030	<1	<1	15	<2	20	1.4
JAN								
09.	1430	<0.030	--	--	--	--	--	--
FEB								
13.	1345	<0.030	--	--	--	--	--	3.4
MAR								
13.	1200	<0.030	--	--	--	--	--	3.7
APR								
03.	1230	0.050	--	--	--	--	--	--
MAY								
08.	1300	<0.030	--	--	--	--	--	8.3
JUN								
12.	1235	0.040	--	--	--	--	--	3.4
JUL								
17.	1145	0.070	--	--	--	--	--	2.8
AUG								
11.	1330	0.040	--	--	--	--	--	2.6
14.	1200	<0.030	--	--	--	--	--	3.1

07064000 BLACK RIVER NEAR CORNING, ARKANSAS

LOCATION.--Lat 36°24'07", long 90°32'29", in SW ¼ NE ¼ 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 east of Corning, 11.9 mi downstream from Cane Creek, and at mile 152.2.

DRAINAGE AREA.--1,749 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 272.90 ft above mean Gulf level (U.S. Army 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 downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station. Some regulation since June 3, 1948, by Clearwater Lake (Missouri), 105 mi upstream, capacity, 413,700 acre-ft.

AVERAGE DISCHARGE.--52 years, 1,836 ft³/s, 1,330,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,600 ft³/s June 13, 1945; maximum gage height, 16.92 ft June 13, 1945; minimum discharge, 224 ft³/s Sept. 22-27, 1941; minimum gage height observed, -0.52 ft Sept. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 18, 1927, reached a stage of 14.4 ft, from records of U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,200 ft³/s Feb. 17, gage height, 12.78 ft; minimum, 389 ft³/s Sept. 2, 3, gage height, 2.17 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	515	502	562	3350	3760	4840	3250	4060	2100	558	414
2	483	504	498	557	3980	3770	5270	3320	3760	2100	525	395
3	473	481	496	526	5810	3690	4780	3420	3570	2090	508	395
4	458	461	495	512	6890	3500	4170	3790	3440	2090	510	440
5	444	475	494	514	6310	3240	3850	4350	3260	2080	676	478
6	440	512	494	558	5290	2930	3680	4160	3080	2060	939	476
7	459	540	493	584	4330	2610	3590	3730	2900	2060	908	428
8	479	555	495	587	3710	2380	3510	3470	2750	2060	713	407
9	482	522	494	586	3420	2340	3390	3410	2670	2060	574	411
10	460	499	493	582	3690	2310	3210	3490	2620	2060	539	442
11	434	489	493	579	4970	2200	3220	3600	2560	2060	536	446
12	422	494	491	578	5710	2090	3890	3750	2490	2060	524	430
13	417	509	489	574	5190	2000	4450	3900	2430	2060	494	424
14	426	516	485	566	4350	1910	4380	3930	2390	2070	499	489
15	438	526	482	549	4250	1880	4030	3870	2390	2080	542	547
16	464	527	481	534	5760	1970	3770	3610	2400	2060	556	548
17	555	520	481	537	9370	2080	3720	3370	2400	1890	575	481
18	649	507	481	543	9770	2160	3810	3320	2380	1520	627	423
19	660	491	481	631	7990	2220	3740	3390	2340	1090	687	406
20	590	484	481	1380	6390	2260	3590	3370	2290	794	700	402
21	591	481	481	2690	5300	2310	3500	3400	2250	655	689	413
22	674	483	481	3800	4720	2380	3370	4230	2240	628	688	571
23	729	485	481	4680	4500	2470	3290	5900	2220	647	687	654
24	719	502	481	4570	4580	2570	3250	5870	2190	735	670	654
25	668	526	481	3910	4420	2630	3110	5030	2160	746	632	654
26	626	536	493	3380	4190	2580	2970	4230	2140	700	598	654
27	599	540	525	3080	3890	2360	2880	4130	2130	680	574	651
28	570	533	539	2930	3770	2110	2940	4980	2130	671	541	635
29	547	520	537	2980	---	1950	3040	5470	2120	666	510	608
30	534	511	536	3070	---	2450	3150	5290	2110	653	487	596
31	523	---	549	3150	---	3490	---	4630	---	610	449	---
TOTAL	16505	15244	15383	50279	145900	78600	110390	125660	77870	45835	18715	14972
MEAN	532	508	496	1622	5211	2535	3680	4054	2596	1479	604	499
MAX	729	555	549	4680	9770	3770	5270	5900	4060	2100	939	654
MIN	417	461	481	512	3350	1880	2880	3250	2110	610	449	395
AC-FT	32740	30240	30510	99730	289400	155900	219000	249200	154500	90910	37120	29700

CAL YR 1989 TOTAL 728239 MEAN 1995 MAX 17300 MIN 417 AC-FT 1444000
WTR YR 1990 TOTAL 715353 MEAN 1960 MAX 9770 MIN 395 AC-FT 1419000

07068850 CURRENT RIVER NEAR POCAHONTAS, ARKANSAS

LOCATION.--Lat 36°17'55", long 90°51'30", in SE ¼ SE ¼ sec.10, T.19 N., R.2 E., Randolph County, Hydrologic Unit 11010008, at bridge on U.S. Highway 67, 5.5 mi northeast of Pocahontas.

DRAINAGE AREA.--2,606 mi².

PERIOD OF RECORD.--Water years 1955-58, October 1970 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1200	9827	9827	1590	8.5	19.0	2.8	9.6	0.5
NOV 14.	1020	9827	9827	1540	8.3	16.0	2.2	9.9	0.9
DEC 12.	1030	9827	9827	1460	8.2	5.0	2.5	11.7	0.5
JAN 09.	1115	9827	9827	1430	8.2	8.0	2.5	11.8	0.4
FEB 06.	1115	9827	9827	5120	7.7	9.0	25	9.8	1.3
MAR 13.	1130	9827	9827	4540	8.0	18.0	6.6	9.5	0.8
APR 17.	1100	9827	9827	5890	8.0	13.0	20	9.5	0.1
MAY 08.	1045	9827	9827	7900	7.7	18.0	25	7.5	0.5
JUN 12.	1100	9827	9827	5080	8.0	25.0	--	8.2	0.1
JUL 17.	1045	9827	9827	2690	8.1	24.0	--	8.6	0.3
AUG 14.	1145	9827	9827	2320	8.3	24.0	--	8.3	0.1
SEP 11.	0730	9827	9827	1970	8.3	24.0	--	8.2	0.3

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1200	180	5.0	3.0	177	4	0.140	<0.050	<0.030
NOV 14.	1020	190	4.0	--	173	4	0.050	<0.050	0.040
DEC 12.	1030	180	4.0	3.5	192	3	0.090	0.090	<0.030
JAN 09.	1115	180	5.0	3.7	180	4	0.090	<0.050	0.040
FEB 06.	1115	100	7.0	<1.5	102	27	0.320	<0.050	0.080
MAR 13.	1130	130	5.0	3.5	103	13	0.230	<0.050	0.060
APR 17.	1100	110	3.0	3.0	104	--	0.190	<0.050	0.050
MAY 08.	1045	96	6.0	2.4	114	21	0.230	0.050	0.090
JUN 12.	1100	130	5.0	2.6	137	12	0.180	<0.050	0.040
JUL 17.	1045	170	5.0	3.2	--	8	0.280	<0.050	0.030
AUG 14.	1145	--	4.0	4.6	178	12	0.190	<0.050	0.040
SEP 11.	0730	170	3.0	4.4	170	--	0.160	<0.050	0.040

07068850 CURRENT RIVER NEAR POCAHONTAS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1200	<0.030	<1	--	<15	2	<10	3.6
NOV								
14.	1020	<0.030	<1	--	<15	<2	<10	2.3
DEC								
12.	1030	<0.030	1	2	23	<2	60	1.2
JAN								
09.	1115	0.030	--	--	--	--	--	2.4
FEB								
06.	1115	--	--	--	--	--	--	3.9
MAR								
13.	1130	0.030	--	--	--	--	--	2.5
APR								
17.	1100	<0.030	--	--	--	--	--	2.2
MAY								
08.	1045	0.030	--	--	--	--	--	5.4
JUN								
12.	1100	0.030	--	--	--	--	--	1.5
JUL								
17.	1045	0.110	--	--	--	--	--	5.5
AUG								
14.	1145	0.050	--	--	--	--	--	3.4
SEP								
11.	0730	0.030	--	--	--	--	--	1.2

07069000 BLACK RIVER AT POCAHONTAS, ARKANSAS

LOCATION.--Lat 36°15'14", long 90°58'12", in SW ¼ SW ¼ sec.27, T.19 N., R.1 E., Randolph County, Hydrologic Unit 11010009, at gaging station near bank on downstream side of bridge on U.S. Highway 67 at Pocahontas, 1.6 mi downstream from Fourche Creek, 6.1 mi downstream from Current River, 18.1 mi upstream from Spring River, and at mile 90.1.

DRAINAGE AREA.--4,845 mi².

PERIOD OF RECORD.--October 1965 to September 1966, October 1977 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1230	9827	9827	1720	8.5	19.0	6.8	9.5	0.7
NOV 14.	1045	9827	9827	1600	8.3	16.0	4.4	9.7	1.1
DEC 12.	1100	9827	9827	1640	8.3	5.0	3.5	12.3	0.6
JAN 09.	1145	9827	9827	1800	8.3	8.0	3.0	12.2	0.6
FEB 06.	1200	9827	9827	12000	7.9	9.0	30	9.0	1.0
MAR 13.	1200	9827	9827	17800	7.9	18.0	20	8.1	0.8
APR 17.	1130	9827	9827	11800	7.8	14.0	45	8.5	1.2
MAY 08.	1115	9827	9827	16200	7.8	19.0	30	7.1	0.7
JUN 12.	1130	9827	9827	7540	7.8	24.0	--	6.8	0.7
JUL 17.	1115	9827	9827	3940	8.0	25.0	--	7.9	0.8
AUG 14.	1215	9827	9827	2320	8.4	25.0	--	8.3	1.0
SEP 11.	0800	9827	9827	2100	8.2	25.0	--	8.4	1.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1230	170	5.0	2.9	171	13	0.120	<0.050	0.030
NOV 14.	1045	180	4.0	--	175	8	<0.020	<0.050	0.030
DEC 12.	1100	180	4.0	3.2	177	5	0.050	<0.050	0.040
JAN 09.	1145	170	6.0	3.6	174	4	0.050	<0.050	0.040
FEB 06.	1200	92	7.0	1.9	98	23	0.210	<0.050	0.080
MAR 13.	1200	110	5.0	3.2	93	18	0.140	<0.050	0.090
APR 17.	1130	94	2.0	2.9	101	--	0.160	<0.050	0.130
MAY 08.	1115	92	7.0	2.2	124	22	0.180	<0.050	0.090
JUN 12.	1130	120	5.0	2.6	130	12	0.190	0.050	0.100
JUL 17.	1115	140	4.0	2.6	--	25	0.230	<0.050	0.070
AUG 14.	1215	--	3.0	3.9	170	20	0.190	<0.050	0.050
SEP 11.	0800	160	2.0	4.2	174	--	0.170	<0.050	0.070

07069000 BLACK RIVER AT POCAHONTAS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1230	<0.030	<1	--	16	<2	<10	2.0
NOV								
14.	1045	<0.030	<1	1	<15	<2	<10	2.8
DEC								
12.	1100	<0.030	<1	<1	<15	<2	<10	1.3
JAN								
09.	1145	<0.030	--	--	--	--	--	4.3
FEB								
06.	1200	--	--	--	--	--	--	5.0
MAR								
13.	1200	0.030	--	--	--	--	--	4.6
APR								
17.	1130	<0.030	--	--	--	--	--	5.9
MAY								
08.	1115	<0.030	--	--	--	--	--	4.6
JUN								
12.	1130	0.050	--	--	--	--	--	4.0
JUL								
17.	1115	0.060	--	--	--	--	--	3.4
AUG								
14.	1215	<0.030	--	--	--	--	--	2.6
SEP								
11.	0800	<0.030	--	--	--	--	--	4.6

07069200 MAMMOTH SPRING AT MAMMOTH SPRING, ARKANSAS

LOCATION.--Lat 36°29'53", long 91°32'08", in SE ¼ SW ¼ sec.5, T.21 N., R.5 W., Fulton County, Hydrologic Unit 11010010, at north bank of spring outlet pool, 0.25 mi upstream from confluence of Mammoth Spring and Warm Fork at town of Mammoth Spring.

PERIOD OF RECORD.--Occasional low-flow measurements made beginning in 1924. February 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.90 ft above National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--9 years, 362 ft^3/s, 262,300 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 689 ft^3/s Dec. 3, 1982, gage height, 5.10 ft; minimum, 182 ft^3/s Dec. 17-21, 28-31, 1981, Jan. 1-2, 1982, gage height, 3.74 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft^3/s May 3, gage height, 4.94 ft; minimum, 226 ft^3/s Jan. 14-19, gage height, 3.94 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	245	233	230	309	435	485	507	535	464	379	329
2	282	245	233	230	390	435	485	519	531	462	376	328
3	280	245	233	230	399	435	485	574	530	460	375	328
4	279	245	233	230	401	435	485	590	530	456	375	328
5	277	245	233	230	401	435	485	580	525	453	372	325
6	277	245	233	230	401	434	481	575	525	451	369	325
7	276	245	233	230	401	420	480	570	521	447	368	322
8	274	245	233	230	401	424	479	565	521	445	363	322
9	274	243	233	229	401	437	479	560	516	443	361	322
10	270	243	233	228	407	442	477	555	516	439	361	322
11	254	243	233	228	416	443	480	550	512	436	361	322
12	254	243	233	228	420	443	484	550	512	433	361	320
13	254	243	233	228	420	445	485	562	507	431	361	316
14	254	243	233	227	420	447	485	555	504	428	361	312
15	254	243	233	226	424	458	485	551	503	427	364	312
16	254	243	233	226	434	470	485	549	499	424	371	312
17	254	242	231	226	435	477	492	545	498	420	364	312
18	254	240	230	226	435	481	504	544	495	417	361	311
19	254	240	230	243	435	481	509	539	494	416	356	308
20	253	240	230	305	435	481	512	535	490	412	353	308
21	251	240	230	312	435	477	513	534	486	412	353	312
22	251	240	230	312	435	477	516	530	485	409	350	315
23	251	240	230	310	435	472	516	529	485	406	346	315
24	250	240	230	302	435	470	516	525	484	402	346	313
25	248	240	230	297	435	468	516	521	481	398	346	310
26	248	240	230	292	435	464	516	521	477	394	346	308
27	248	240	230	287	435	461	514	524	475	393	346	305
28	248	239	230	283	435	460	512	533	472	390	344	302
29	248	236	230	281	---	460	512	538	468	386	335	302
30	248	233	230	276	---	473	511	540	467	383	335	302
31	247	---	230	273	---	485	---	535	---	382	332	---
TOTAL	8049	7254	7179	7885	11665	14125	14884	16905	15044	13119	11091	9468
MEAN	260	242	232	254	417	456	496	545	501	423	358	316
MAX	283	245	233	312	435	485	516	590	535	464	379	329
MIN	247	233	230	226	309	420	477	507	467	382	332	302
AC-FT	15970	14390	14240	15640	23140	28020	29520	33530	29840	26020	22000	18780

CAL YR 1989 TOTAL 139971 MEAN 383 MAX 576 MIN 230 AC-FT 277600
WTR YR 1990 TOTAL 136668 MEAN 374 MAX 590 MIN 226 AC-FT 271100

07069295 SOUTH FORK SPRING RIVER AT SADDLE, ARKANSAS

LOCATION.--Lat 36°21'00", long 91°38'00", in NW ¼ NW ¼ sec.33, T.20 N., R.6 W., Fulton County, Hydrologic Unit 11010010, at bridge on State Highway 289, 0.2 mi southeast of Saddle.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 24.	0800	9827	9827	0.50	8.0	14.0	2.0	8.2	0.5
NOV 28.	0815	9827	9827	17	8.1	9.0	2.0	9.4	1.0
DEC 12.	1630	9827	9827	18	8.2	3.0	4.0	13.0	0.5
JAN 23.	0905	9827	9827	140	7.8	6.0	25	10.8	1.4
FEB 27.	0830	9827	9827	--	--	8.0	4.4	10.9	0.4
MAR 27.	0845	9827	9827	367	--	8.0	2.2	--	0.7
APR 24.	0845	9827	9827	--	8.0	19.0	4.4	7.9	0.6
MAY 22.	0830	9827	9827	--	8.1	14.0	4.9	8.0	1.9
JUN 19.	0835	9827	9827	82	8.1	22.0	--	6.0	0.3
JUL 31.	0845	9827	9827	25	8.1	26.0	--	6.7	0.9
AUG 28.	0810	9827	9827	15	8.1	26.0	--	5.9	0.6
SEP 25.	0830	9827	9827	26	8.2	17.0	--	7.7	0.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	0800	240	4.0	3.0	241	3	<0.020	<0.050	<0.030
NOV 28.	0815	--	6.0	4.2	233	3	<0.020	<0.050	<0.030
DEC 12.	1630	250	4.0	3.7	237	4	<0.020	<0.050	<0.030
JAN 23.	0905	120	8.0	4.5	147	24	0.650	<0.050	0.090
FEB 27.	0830	160	4.0	3.8	164	3	0.400	<0.050	0.060
MAR 27.	0845	180	3.0	3.9	--	2	0.250	<0.050	0.030
APR 24.	0845	--	4.0	2.7	151	4	0.050	<0.050	0.050
MAY 22.	0830	170	4.0	3.2	181	10	0.140	<0.050	0.030
JUN 19.	0835	--	3.0	3.2	--	7	0.310	0.050	0.050
JUL 31.	0845	230	3.0	3.9	221	6	0.150	--	0.030
AUG 28.	0810	220	3.0	4.1	215	7	0.060	<0.050	<0.030
SEP 25.	0830	210	2.0	4.0	202	6	0.080	<0.050	0.100

07069295 SOUTH FORK SPRING RIVER AT SADDLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	0800	0.030	<1	<1	<15	<2	<10	--
NOV								
28.	0815	<0.030	<1	2	<15	<2	<10	--
DEC								
12.	1630	<0.030	--	<1	<15	<2	<10	2.8
JAN								
23.	0905	--	--	--	--	--	--	6.7
FEB								
27.	0830	<0.030	--	--	--	--	--	2.7
MAR								
27.	0845	--	--	--	--	--	--	4.9
APR								
24.	0845	<0.030	--	--	--	--	--	4.1
MAY								
22.	0830	<0.030	--	--	--	--	--	4.5
JUN								
19.	0835	<0.030	--	--	--	--	--	4.4
JUL								
31.	0845	<0.030	--	--	--	--	--	--
AUG								
28.	0810	<0.030	--	--	--	--	--	2.4
SEP								
25.	0830	<0.030	--	--	--	--	--	2.1

07069370 SPRING RIVER AT RAVENDEN, ARKANSAS

LOCATION.--Lat 36°13'30", long 91°15'03", in SE ¼ NW ¼ sec.12, T.18 N., R.3 W., Lawrence County, Hydrologic Unit 11010010, at bridge on county road, 400 ft upstream from Starling Creek, and 0.5 mi south of Ravenden.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1330	9827	9827	8.6	19.0	3.2	7.6	--	240
NOV									
14.	1200	9827	9827	8.4	17.0	2.8	10.0	1.1	260
DEC									
12.	1200	9827	9827	8.4	4.0	2.0	12.9	0.7	250
JAN									
09.	1315	9827	9827	8.4	9.0	2.5	12.5	0.5	250
FEB									
06.	1315	9827	9827	8.1	9.0	10	10.6	0.8	180
MAR									
13.	1250	9827	9827	8.3	18.0	10	9.4	0.9	200
APR									
17.	1230	9827	9827	8.3	13.0	20	8.9	0.5	170
MAY									
08.	1200	9827	9827	8.2	19.0	15	8.7	0.6	190
JUN									
12.	1230	9827	9827	8.3	24.0	--	8.8	0.9	220
JUL									
17.	1230	9827	9827	8.2	25.0	--	8.8	0.8	240
AUG									
14.	1400	9827	9827	8.5	25.0	--	8.7	0.8	--
SEP									
11.	0900	9827	9827	8.4	25.0	--	7.8	0.8	230

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
10.	1330	4.0	2.6	234	5	0.230	<0.050	<0.030
NOV								
14.	1200	2.0	--	237	4	0.040	<0.050	<0.030
DEC								
12.	1200	4.0	2.8	243	3	0.100	<0.050	<0.030
JAN								
09.	1315	5.0	3.2	246	4	0.130	<0.050	<0.030
FEB								
06.	1315	6.0	2.3	182	18	0.580	<0.050	0.060
MAR								
13.	1250	4.0	3.8	172	27	0.450	<0.050	0.070
APR								
17.	1230	2.0	2.9	166	--	0.230	<0.050	0.050
MAY								
08.	1200	5.0	2.8	199	24	0.460	<0.050	0.060
JUN								
12.	1230	3.0	3.1	213	9	0.400	<0.050	<0.030
JUL								
17.	1230	4.0	2.9	--	10	0.550	<0.050	<0.030
AUG								
14.	1400	2.0	3.7	229	8	0.370	0.070	<0.030
SEP								
11.	0900	1.0	3.6	203	--	0.420	<0.050	0.030

07069370 SPRING RIVER AT RAVENDEN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1330	<0.030	<1	--	<15	<2	<10	5.5
NOV								
14.	1200	<0.030	<1	3	<15	<2	<10	2.9
DEC								
12.	1200	<0.030	<1	<1	23	<2	<10	2.0
JAN								
09.	1315	<0.030	--	--	--	--	--	6.2
FEB								
06.	1315	--	--	--	--	--	--	3.3
MAR								
13.	1250	<0.030	--	--	--	--	--	4.1
APR								
17.	1230	<0.030	--	--	--	--	--	4.2
MAY								
08.	1200	<0.030	--	--	--	--	--	2.2
JUN								
12.	1230	<0.030	--	--	--	--	--	6.1
JUL								
17.	1230	0.070	--	--	--	--	--	8.0
AUG								
14.	1400	<0.030	--	--	--	--	--	3.1
SEP								
11.	0900	<0.030	--	--	--	--	--	1.8

07069500 SPRING RIVER AT IMBODEN, ARKANSAS

LOCATION.--Lat 36°12'19", long 91°10'19", in SE ¼NE ¼ 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 upstream from Harding Creek, 3.9 mi downstream from Janes Creek, 8.2 mi upstream from Eleven Point River, and at mile 12.1.

DRAINAGE AREA.--1,183 mi².

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 above National Geodetic Vertical Datum of 1929. Prior to July 17,1937, nonrecording gage at site 200 ft downstream at present datum. July 17, 1937, to Feb. 8, 1939, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--54 years, 1,377 ft³/s, 15.81 in/yr, 997,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 244,000 ft³/s Dec. 3, 1982, gage height, 38.12 ft from floodmarks, from rating curve extended above 78,000 ft³/s, on basis of contracted opening and flow-over-road measurement of peak flow; minimum daily, 215 ft³/s Aug. 1, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915 reached a stage of about 32.1 ft, from information by U.S. Army Corps of Engineers, discharge, about 125,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 30	1615	9,660	14.51	May 04	0500	*17,400	*19.02

Minimum discharge, 375 ft³/s Jan. 12, 13, 14, 15, gage height, 2.61 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	484	427	413	396	3070	2290	4290	2290	2200	957	637	495
2	475	427	412	390	6120	2490	3310	4340	2610	939	625	491
3	464	426	407	406	3800	2330	2820	9780	2240	919	626	489
4	454	426	407	432	2730	2130	2560	15300	2020	896	657	488
5	450	426	407	407	2240	1960	2370	6470	1870	876	678	499
6	451	431	408	397	1940	1830	2220	4260	1770	856	636	495
7	461	436	406	391	1720	1800	2070	3500	1690	841	617	495
8	446	443	404	388	1560	4550	1960	3060	1610	829	607	550
9	443	430	404	388	1470	4060	1880	2790	1550	812	599	557
10	441	426	405	383	1580	3120	2170	2640	1490	796	593	561
11	437	426	407	381	1970	2660	3230	2440	1440	787	589	537
12	429	426	403	378	1770	2400	2710	2410	1390	814	605	524
13	427	426	400	375	1610	2600	2310	4470	1350	787	615	520
14	426	428	400	375	1510	2390	2170	3680	1330	780	594	516
15	428	446	400	377	4070	3170	2060	2860	1420	772	591	509
16	441	425	400	379	5570	5440	2010	2570	1300	760	712	502
17	459	415	400	420	3410	3040	3640	2790	1250	746	656	492
18	436	418	400	442	2540	2540	3430	2400	1210	737	609	513
19	426	420	400	580	2200	2360	2880	2230	1160	729	585	517
20	426	420	400	3430	1970	2170	2650	2150	1130	722	573	517
21	427	420	400	2050	1820	2050	3260	2500	1110	732	574	587
22	432	441	400	1250	2200	1960	3300	2480	1170	811	558	767
23	433	433	400	936	2210	1860	2950	2260	1160	771	548	670
24	434	421	400	855	2060	1780	2880	2040	1140	730	545	608
25	433	420	400	751	1870	1810	2630	1910	1100	713	539	584
26	433	420	400	681	1730	1760	2430	1950	1090	700	534	561
27	417	420	400	639	1670	1720	2310	2670	1060	693	529	545
28	420	417	399	615	1840	1690	2460	4430	1040	683	522	535
29	425	411	396	644	---	1950	2630	3280	1020	671	516	526
30	426	411	416	616	---	6520	2390	2580	983	662	509	584
31	430	---	412	593	---	6770	---	2340	---	649	501	---
TOTAL	13614	12762	12506	20745	68250	85200	79980	110870	42903	24170	18279	16234
MEAN	439	425	403	669	2437	2748	2666	3576	1430	780	590	541
MAX	484	446	416	3430	6120	6770	4290	15300	2610	957	712	767
MIN	417	411	396	375	1470	1690	1880	1910	983	649	501	488
AC-FT	27000	25310	24810	41150	135400	169000	158600	219900	85100	47940	36260	32200
CFSM	.37	.36	.34	.57	2.06	2.32	2.25	3.02	1.21	.66	.50	.46
IN.	.43	.40	.39	.65	2.15	2.68	2.52	3.49	1.35	.76	.57	.51

CAL YR 1989 TOTAL 575310 MEAN 1576 MAX 27000 MIN 396 AC-FT 1141000 CFSM 1.33 IN. 18.09
WTR YR 1990 TOTAL 505513 MEAN 1385 MAX 15300 MIN 375 AC-FT 1003000 CFSM 1.17 IN. 15.90

07072000 ELEVEN POINT RIVER NEAR RAVENDEN SPRINGS, ARKANSAS

LOCATION.--Lat 36°20'48", long 91°06'48", in SE ¼ SE ¼ sec.30, T.20 N., R.1 W., Randolph County, Hydrologic Unit 11010010, on right bank at upstream side of bridge on State Highway 90, 0.9 mi downstream from Hincha Creek, 1.9 mi upstream from Eassis Creek, 6.6 mi northeast of Ravenden Springs, and at mile 21.2.

DRAINAGE AREA.--1,134 mi².

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 above National Geodetic Vertical Datum of 1929. Prior to Nov. 21, 1938, nonrecording gage at present site at datum 0.04 ft higher. Nov. 21 to Dec. 11, 1938, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Satellite telemeter at station.

AVERAGE DISCHARGE.--59 years, 1,132 ft³/s, 13.57 in/yr, 820,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162,000 ft³/s Dec. 3, 1982, gage height, 29.06 ft from floodmarks, from rating curve extended above 23,000 ft³/s, on basis of contracted opening and flow-over-road measurement of peak flow; minimum observed, 226 ft³/s Sept. 9, 1936, gage height, 2.13 ft, present datum.

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

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
May 05	1400	*6,860	*11.08	No other peak greater than base discharge.			

Minimum discharge, 389 ft³/s Jan. 12, 13, 14, 15, gage height, 2.80 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	512	475	452	418	1550	1320	2270	1820	2150	1110	824	682
2	499	477	452	408	1700	1320	2020	2630	2260	1100	818	680
3	491	475	450	409	1590	1300	1830	4110	2030	1080	815	676
4	491	476	450	432	1370	1260	1720	6620	1900	1070	822	672
5	484	483	453	418	1230	1210	1630	5060	1810	1050	844	669
6	481	482	454	411	1150	1170	1550	3420	1760	1040	817	676
7	484	488	450	400	1080	1160	1460	2900	1710	1030	794	696
8	481	488	440	403	1030	1590	1390	2600	1660	1020	785	731
9	484	484	440	412	1040	1600	1340	2400	1620	1010	780	698
10	487	478	440	406	1630	1610	1960	2280	1580	993	777	688
11	485	479	440	404	1700	1530	3510	2120	1540	984	774	670
12	486	478	435	397	1460	1460	2790	2140	1500	989	780	668
13	483	474	433	389	1330	1570	2310	3720	1480	972	777	668
14	479	479	429	390	1230	1620	2090	3440	1470	965	769	666
15	479	481	429	395	2470	1780	1930	2680	1500	956	769	650
16	497	468	429	400	2790	2750	1850	2570	1430	947	831	644
17	488	470	428	435	2360	2150	3760	2620	1400	934	808	637
18	473	467	426	439	1910	1860	4120	2310	1370	922	768	637
19	470	462	428	627	1700	1730	2890	2200	1330	917	753	637
20	475	469	424	1820	1540	1600	2510	2140	1310	910	749	632
21	479	469	420	1050	1420	1520	2690	2370	1300	926	741	832
22	484	480	417	891	1520	1470	2660	2250	1310	958	732	858
23	487	474	514	809	1500	1400	2520	2150	1270	916	726	695
24	486	458	506	758	1430	1370	2420	2060	1240	896	718	659
25	477	458	429	707	1340	1350	2200	1990	1220	883	718	644
26	473	463	428	673	1260	1300	2050	2030	1210	868	712	642
27	473	471	422	647	1230	1270	1950	2260	1190	865	705	636
28	474	464	421	627	1280	1260	1980	2540	1160	855	701	634
29	474	453	426	627	---	1360	2000	2720	1140	848	702	625
30	471	452	434	602	---	3270	1890	2400	1120	841	695	752
31	479	---	430	585	---	2470	---	2200	---	831	686	---
TOTAL	14966	14175	13629	17789	42840	49630	67290	84750	44970	29686	23690	20354
MEAN	483	472	440	574	1530	1601	2243	2734	1499	958	764	678
MAX	512	488	514	1820	2790	3270	4120	6620	2260	1110	844	858
MIN	470	452	417	389	1030	1160	1340	1820	1120	831	686	625
AC-FT	29690	28120	27030	35280	84970	98440	133500	168100	89200	58880	46990	40370
CFSM	.43	.42	.39	.51	1.35	1.41	1.98	2.41	1.32	.84	.67	.60
IN.	.49	.46	.45	.58	1.41	1.63	2.21	2.78	1.48	.97	.78	.67

CAL YR 1989 TOTAL 429644 MEAN 1177 MAX 10200 MIN 417 AC-FT 852200 CFSM 1.04 IN. 14.09
WTR YR 1990 TOTAL 423769 MEAN 1161 MAX 6620 MIN 389 AC-FT 840500 CFSM 1.02 IN. 13.90

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, ARKANSAS

LOCATION.--Lat 36°14'13", long 91°05'05", in NW ¼ SE ¼ sec.33. T.19 N., R.1 W., Randolph County, Hydrologic Unit 11010011, at bridge on U.S. Highway 62, 6.0 mi west of Pocahontas.

DRAINAGE AREA.--1,192 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1300	9827	9827	518	8.6	18.0	3.8	10.0	0.8
NOV 14.	1115	9827	9827	505	8.3	16.0	2.2	9.7	1.1
DEC 12.	1130	9827	9827	457	8.3	5.0	2.0	12.3	0.8
JAN 09.	1230	9827	9827	432	8.3	8.0	1.5	11.8	0.3
FEB 06.	1230	9827	9827	1210	8.0	9.0	7.5	10.5	0.8
MAR 13.	1220	9827	9827	1710	8.1	18.0	5.4	9.5	0.7
APR 17.	1200	9827	9827	3800	8.0	13.0	40	8.7	1.1
MAY 08.	1130	9827	9827	2750	7.9	18.0	15	9.0	0.5
JUN 12.	1200	9827	9827	1600	8.2	21.0	--	9.5	0.9
JUL 17.	1145	9827	9827	990	8.1	22.0	--	8.9	0.5
AUG 14.	1245	9827	9827	806	8.4	21.0	--	8.6	0.2
SEP 11.	0830	9827	9827	701	8.3	22.0	--	8.0	0.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1300	210	4.0	2.4	203	3	0.330	<0.050	<0.030
NOV 14.	1115	220	2.0	--	203	5	0.190	<0.050	<0.030
DEC 12.	1130	210	4.0	2.5	227	2	0.210	<0.050	<0.030
JAN 09.	1230	210	5.0	3.3	216	3	0.230	<0.050	<0.030
FEB 06.	1230	170	5.0	1.9	160	16	0.590	<0.050	0.040
MAR 13.	1220	170	3.0	3.4	149	12	0.490	0.050	0.050
APR 17.	1200	120	3.0	2.9	123	--	0.350	<0.050	0.130
MAY 08.	1130	150	4.0	2.7	154	27	0.480	<0.050	0.060
JUN 12.	1200	160	3.0	2.8	168	10	0.420	0.060	<0.030
JUL 17.	1145	200	2.0	2.7	--	8	0.600	<0.050	<0.030
AUG 14.	1245	--	1.0	3.6	200	12	0.480	0.050	0.030
SEP 11.	0830	200	1.0	3.6	209	--	0.490	<0.050	0.030

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1300	<0.030	<1	--	<15	<2	<10	4.2
NOV								
14.	1115	<0.030	<1	3	<15	<2	<10	2.7
DEC								
12.	1130	<0.030	<1	<1	17	<2	<10	1.2
JAN								
09.	1230	<0.030	--	--	--	--	--	0.8
FEB								
06.	1230	--	--	--	--	--	--	1.6
MAR								
13.	1220	0.030	--	--	--	--	--	2.1
APR								
17.	1200	<0.030	--	--	--	--	--	5.6
MAY								
08.	1130	<0.030	--	--	--	--	--	5.1
JUN								
12.	1200	<0.030	--	--	--	--	--	0.9
JUL								
17.	1145	0.080	--	--	--	--	--	4.6
AUG								
14.	1245	<0.030	--	--	--	--	--	3.9
SEP								
11.	0830	<0.030	--	--	--	--	--	1.4

07072500 BLACK RIVER AT BLACK ROCK, ARKANSAS

LOCATION.--Lat 36°06'15", long 91°05'50", in NW ¼ sec.21, T.17 N., R.1 W., Lawrence County, Hydrologic Unit 11010009, on right bank 900 ft downstream from St. Louis-San Francisco Railway bridge at Black Rock, 3.7 mi downstream from Spring River, and at mile 69.3.

DRAINAGE AREA.--7,369 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1929 to September 1931, October 1939 to current year. Gage-height records collected since 1904 in same vicinity are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: 1930-31. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 229.56 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 1, 1946, nonrecording gage at site 900 ft upstream at same datum. Aug. 1, 1946, to Aug. 17, 1978, nonrecording gage at site 650 ft upstream at same datum.

REMARKS.--Water-discharge records good. Flow slightly regulated since June 3, 1948, by Clearwater Lake (Missouri), 189 mi upstream, capacity, 413,700 acre-ft. Satellite telemeter at station.

AVERAGE DISCHARGE.--53 years, 8,573 ft³/s, 6,211,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190,000 ft³/s Dec. 4, 1982, gage height, 31.51 ft, from floodmarks, from rating curve extended above 105,000 ft³/s; minimum daily discharge, 1,730 ft³/s in September, October, and November 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1915, reached a stage of 31.9 ft, from records of National Weather Service, discharge, 160,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,000 ft³/s May 5, gage height, 21.38 ft; minimum daily, 2,610 ft³/s Dec. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3550	2830	2730	2850	8470	16100	21000	13200	23800	6410	3740	3050
2	3480	2810	2720	2830	14900	15800	20300	14600	24200	6280	3650	3010
3	3400	2800	2700	2820	16000	15100	19500	19500	23600	6170	3570	2980
4	3330	2780	2690	2870	15700	14000	18800	27600	22300	6060	3560	2900
5	3280	2780	2700	2860	15600	12900	17900	30800	20900	5940	3650	2870
6	3250	2770	2700	2820	15500	11900	17100	27300	19500	5850	3710	2860
7	3220	2790	2690	2780	15100	11200	16100	25200	18100	5740	3750	2890
8	3180	2800	2680	2760	14700	14000	15100	24300	16500	5650	3760	3090
9	3160	2790	2680	2770	14200	16100	14000	23900	14900	5600	3760	3290
10	3150	2780	2690	2850	14100	15500	13100	23300	13400	5590	3700	3260
11	3090	2780	2690	2900	14800	14500	e14000	22200	12100	5540	3600	3210
12	3020	2770	2680	2850	15200	13400	e15000	21100	11100	5530	3530	3170
13	2980	2760	2680	2810	15200	12500	e17000	20800	10300	5500	3530	3160
14	2950	2750	2670	2770	14800	12300	e19000	21600	9760	5480	3540	3170
15	2920	2750	2660	2740	16800	13200	e18000	20700	9490	5470	3580	3120
16	2940	2740	2650	2730	21300	16200	e18000	19700	9150	5430	3710	3090
17	2980	2740	2640	2750	21400	16400	e20000	19200	8780	5360	3810	3070
18	2940	2730	2620	2770	21000	16200	20800	18500	8430	5280	3730	3060
19	2950	2720	2650	3080	20600	16200	20500	18300	8130	5220	3690	3040
20	3010	2720	2650	7080	20500	15700	19500	18700	7890	5150	3620	2980
21	3060	2730	2610	9210	20500	14600	19300	19800	7680	5060	3560	2990
22	3060	2750	3040	9370	21200	13200	19200	20900	7630	4980	3510	3590
23	3020	2770	3380	9900	21400	11800	18500	21300	7600	4890	3460	4200
24	3000	2760	3500	9470	21100	10700	17800	21400	7450	4760	3410	3980
25	3000	2770	3700	8340	20200	10100	17000	21400	7290	4610	3390	3770
26	2990	2780	3510	7480	19100	9820	16200	21300	7150	4380	3370	3660
27	2960	2790	3350	6950	17800	9540	15200	21500	7000	4210	3340	3570
28	2910	2770	3210	6540	16600	9310	14600	22900	6860	4090	3280	3450
29	2880	2760	2890	6440	---	9670	14200	23800	6720	3980	3210	3330
30	2860	2740	2820	6480	---	14800	13800	23700	6560	3900	3150	3340
31	2840	---	2860	6480	---	21200	---	23700	---	3820	3100	---
TOTAL	95360	83010	88440	147350	483770	423940	520500	672200	364270	161930	109970	97150
MEAN	3076	2767	2853	4753	17280	13680	17350	21680	12140	5224	3547	3238
MAX	3550	2830	3700	9900	21400	21200	21000	30800	24200	6410	3810	4200
MIN	2840	2720	2610	2730	8470	9310	13100	13200	6560	3820	3100	2860
AC-FT	189100	164700	175400	292300	959600	840900	1032000	1333000	722500	321200	218100	192700

CAL YR 1989 TOTAL 3647950 MEAN 9994 MAX 71000 MIN 2610 AC-FT 7236000
WTR YR 1990 TOTAL 3247890 MEAN 8898 MAX 30800 MIN 2610 AC-FT 6442000

e Estimated

07072500 BLACK RIVER AT BLACK ROCK, ARKANSAS--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 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 20...	0830	80513	80020	3060	359	8.0	9.5	10.2	90	1.5
DEC 12...	0925	80513	80020	2760	352	8.2	4.0	11.6	89	0.9
FEB 13...	1000	80513	80020	14900	207	7.6	10.0	9.3	83	2.0
APR 10...	0900	80513	80020	12800	215	7.8	13.5	8.8	86	--
JUN 27...	1300	80513	80020	7230	157	7.9	24.0	7.0	84	0.9
AUG 28...	1245	80513	80020	3250	335	8.1	28.0	8.2	106	0.5

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
NOV 20...	0830	758	11	29	190	40	23	2.5	3	0.1
DEC 12...	0925	760	K200	30	190	39	23	2.5	3	0.1
FEB 13...	1000	753	160	460	98	21	11	2.2	5	0.1
APR 10...	0900	751	64	160	--	--	--	--	--	--
JUN 27...	1300	758	86	50	150	31	17	1.9	3	0.1
AUG 28...	1245	757	K3800	100	180	37	21	2.3	3	0.1

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
NOV 20...	0830	1.0	189	--	4.0	2.4	0.10	187	1540	0.25
DEC 12...	0925	0.90	189	--	4.0	2.9	0.10	186	1390	0.25
FEB 13...	1000	0.80	84	--	6.0	2.4	0.10	95	3820	0.13
APR 10...	0900	--	--	111	--	--	--	--	--	--
JUN 27...	1300	1.2	140	--	4.4	4.2	0.20	145	2830	0.20
AUG 28...	1245	1.1	177	--	3.7	4.4	0.50	177	1550	0.24

07072500 BLACK RIVER AT BLACK ROCK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV									
20...	0830	<0.010	0.130	0.020	0.010	--	<0.20	0.020	0.030
DEC									
12...	0925	<0.010	0.140	<0.010	0.010	--	<0.20	<0.010	<0.010
FEB									
13...	1000	<0.010	0.250	0.020	0.010	0.28	0.30	0.050	0.020
APR									
10...	0900	<0.010	0.200	0.010	0.020	0.39	0.40	0.050	0.020
JUN									
27...	1300	<0.010	0.200	0.020	0.020	0.28	0.30	0.030	0.020
AUG									
28...	1245	<0.010	0.200	<0.010	0.010	--	<0.20	0.040	0.020

DATE	TIME	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BORON, DISSOLVED (UG/L AS B) (01020)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
NOV									
20...	0830	<0.010	<10	--	--	--	--	--	--
DEC									
12...	0925	<0.010	20	--	--	--	--	--	--
FEB									
13...	1000	0.020	10	--	--	--	--	--	--
APR									
10...	0900	<0.010	--	950	<1	<1	1	1	2
JUN									
27...	1300	<0.010	<10	--	--	--	--	--	--
AUG									
28...	1245	<0.010	10	--	--	--	--	--	--

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
APR									
10...	0900	920	1	60	<1	<0.10	2	<1	<10

07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, ARKANSAS

LOCATION.--Lat 36°06'37", long 91°26'59", in SE ¼ NW ¼ sec.19, T.17 N., R.4 W., Sharp County, Hydrologic Unit 11010012, on left bank 250 ft upstream of bridge on State Highway 58, 0.5 mi downstream from Hurricane Creek, 2.5 mi northeast of Poughkeepsie, and at mile 35.9.

DRAINAGE AREA.--473 mi².

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 877: 1938. WSP 1211: 1938-39. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 298.07 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark.) Prior to Dec. 10, 1938, nonrecording gage at present site and datum. Prior to Jan. 11, 1983, recording gage 250 ft downstream at present datum.

REMARKS.--Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--54 years, 496 ft³/s, 14.24 in/yr, 359,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 158,000 ft³/s Dec. 3, 1982, gage height, 35.9 ft, from flood-mark, site then in use, from rating curve extended above 27,000 ft³/s on basis of slope-area measurement of peak flow; minimum observed, 31 ft³/s Oct. 4, 1938.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 15	2200	7,250	11.33	Apr. 17	1400	9,910	13.25
Mar. 08	1300	7,880	11.81	May 03	1930	*11,200	*14.11
Mar. 30	1600	8,280	12.11				

Minimum daily discharge, 41 ft³/s Oct. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	58	56	59	2900	782	1690	515	591	128	73	54
2	65	58	56	56	3100	935	1190	1700	1070	123	73	53
3	62	58	56	55	1310	737	915	7820	681	117	73	52
4	57	58	55	60	1040	603	762	6550	534	111	77	52
5	56	58	54	58	741	519	671	2030	458	107	87	52
6	50	58	54	57	564	463	590	1350	409	104	79	52
7	43	58	54	55	470	468	520	1030	368	103	72	52
8	41	58	54	54	403	5820	470	837	333	99	68	62
9	42	58	54	53	379	2520	435	722	309	95	67	74
10	46	58	54	53	448	1420	453	652	286	93	67	76
11	42	58	54	53	474	1050	527	580	264	92	65	71
12	44	58	54	52	391	857	462	561	246	98	66	68
13	46	58	53	51	346	727	412	776	232	114	72	66
14	45	58	53	51	317	641	387	649	233	105	73	65
15	44	58	53	51	3500	2040	369	524	248	94	81	62
16	50	58	52	51	3310	1560	373	481	238	90	74	59
17	61	55	53	66	1170	939	7390	589	207	87	69	59
18	74	53	54	66	803	737	2970	498	192	85	66	57
19	65	55	56	253	645	663	1480	431	181	85	64	57
20	58	56	53	1890	532	604	1200	433	175	85	61	57
21	53	57	52	566	465	531	1410	596	170	85	62	65
22	53	60	e50	326	783	488	1120	650	181	99	61	86
23	53	60	e50	251	826	443	885	508	187	100	61	85
24	50	59	e55	210	606	413	812	435	170	102	60	77
25	52	59	53	190	497	417	700	389	160	97	59	73
26	51	59	52	169	435	403	601	414	159	89	59	68
27	53	58	52	154	404	370	546	1260	154	85	59	66
28	53	57	53	148	406	367	596	1520	153	81	59	64
29	51	56	55	160	---	562	593	857	143	77	56	62
30	56	56	61	163	---	4950	507	656	136	76	54	122
31	58	---	64	162	---	3510	---	580	---	75	54	---
TOTAL	1642	1728	1679	5643	27265	36539	31036	36593	8868	2981	2071	1968
MEAN	53.0	57.6	54.2	182	974	1179	1035	1180	296	96.2	66.8	65.6
MAX	74	60	64	1890	3500	5820	7390	7820	1070	128	87	122
MIN	41	53	50	51	317	367	369	389	136	75	54	52
AC-FT	3260	3430	3330	11190	54080	72480	61560	72580	17590	5910	4110	3900
CFSM	.11	.12	.11	.38	2.06	2.49	2.19	2.50	.62	.20	.14	.14
IN.	.13	.14	.13	.44	2.14	2.87	2.44	2.88	.70	.23	.16	.15

CAL YR 1989 TOTAL 198051 MEAN 543 MAX 19200 MIN 41 AC-FT 392800 CFSM 1.15 IN. 15.58
WTR YR 1990 TOTAL 158013 MEAN 433 MAX 7820 MIN 41 AC-FT 313400 CFSM .92 IN. 12.43

e Estimated

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, ARKANSAS

LOCATION.--Lat 36°01'40", long 91°19'31", in NW ¼ SE ¼ sec.17, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, at bridge on State Highway 115, 2.0 mi upstream from Reeds Creek, and Cooper Creek, and 3.9 mi southwest of Smithville.

DRAINAGE AREA.--539 mi^2.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1430	9827	9827	58	8.6	19.0	2.4	9.7	0.7
NOV 14.	1245	9827	9827	66	8.3	17.0	3.4	9.8	1.4
DEC 12.	1345	9827	9827	60	8.4	3.0	2.0	13.7	0.7
JAN 09.	1400	9827	9827	1360	8.4	8.0	2.0	13.4	0.6
FEB 06.	1415	9827	9827	4310	8.1	9.0	25	10.7	1.0
MAR 13.	1345	9827	9827	811	8.1	18.0	10	9.1	0.6
APR 17.	1300	9827	9827	11200	7.6	13.0	280	7.4	3.3
MAY 08.	1245	9827	9827	948	8.1	20.0	20	8.5	0.5
JUN 12.	1330	9827	9827	283	8.2	27.0	--	8.8	1.1
JUL 17.	1310	9827	9827	100	8.2	27.0	--	8.4	0.6
AUG 14.	1445	9827	9827	83	8.5	27.0	--	8.0	0.6
SEP 11.	0945	9827	9827	83	8.3	25.0	--	7.2	0.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1430	220	5.0	2.8	213	3	0.020	<0.050	<0.030
NOV 14.	1245	240	4.0	--	222	5	<0.020	<0.050	<0.030
DEC 12.	1345	230	4.0	2.6	234	3	<0.020	<0.050	<0.030
JAN 09.	1400	220	6.0	3.2	215	2	<0.020	<0.050	<0.030
FEB 06.	1415	140	7.0	2.4	141	37	0.470	<0.050	0.060
MAR 13.	1345	160	5.0	3.5	141	21	0.280	<0.050	0.060
APR 17.	1300	40	4.0	2.7	108	--	0.220	<0.050	0.320
MAY 08.	1245	160	5.0	2.6	170	30	0.310	<0.050	0.050
JUN 12.	1330	220	6.0	3.1	202	10	0.150	<0.050	<0.030
JUL 17.	1310	230	4.0	2.8	--	12	0.080	<0.050	<0.030
AUG 14.	1445	--	5.0	3.5	206	15	0.020	<0.050	0.030
SEP 11.	0945	200	2.0	3.4	207	--	0.030	<0.050	0.030

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1430	<0.030	<1	--	<15	<2	<10	4.4
NOV								
14.	1245	<0.030	<1	2	<15	<2	<10	11
DEC								
12.	1345	<0.030	<1	<1	<15	<2	<10	1.3
JAN								
09.	1400	<0.030	--	--	--	--	--	2.3
FEB								
06.	1415	--	--	--	--	--	--	4.3
MAR								
13.	1345	<0.030	--	--	--	--	--	4.1
APR								
17.	1300	0.040	--	--	--	--	--	16
MAY								
08.	1245	<0.030	--	--	--	--	--	2.2
JUN								
12.	1330	<0.030	--	--	--	--	--	5.6
JUL								
17.	1310	0.060	--	--	--	--	--	5.5
AUG								
14.	1445	<0.030	--	--	--	--	--	2.7
SEP								
11.	0945	<0.030	--	--	--	--	--	5.3

07074500 WHITE RIVER AT NEWPORT, ARKANSAS

(National stream-quality accounting network station)

LOCATION.--Lat 35°36'18", long 91°17'19", in NE ¼ NE ¼ sec.10, T.11 N., R.3 W., Jackson County, Hydrologic Unit 11010013, on left bank 100 ft downstream from bridge on U.S. Highway 67 at Newport, 7.2 mi downstream from Black River, and at mile 257.6.

DRAINAGE AREA.--19,860 mi².

WATER-DISCHARGE RECORDS

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 above National Geodetic Vertical Datum of 1929. September 1927 to September 1931, nonrecording gage at site 2.8 mi downstream at datum 2.30 ft lower. Oct. 1, 1937, to Aug. 14, 1953, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good. Some regulation since 1943 by Norfork Lake, capacity, 1,983,000 acre-ft since 1948 by Clearwater Lake (Missouri), capacity, 413,700 acre-ft, since July 24, 1951, by Bull Shoals Lake, 149 mi upstream, capacity, 5,408,000 acre-ft, since Sept. 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 acre-ft, and since Dec. 26, 1963, by Beaver Lake, capacity, 1,951,500 acre-ft. Satellite telemeter at station.

AVERAGE DISCHARGE.--57 years, 22,770 ft³/s, 16,500,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 343,000 ft³/s Apr. 17, 1945; maximum gage height observed, 35.9 ft Apr. 18, 1945; minimum discharge, 2,870 ft³/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, from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 104,000 ft³/s May 6, gage height, 28.47 ft; minimum daily, 4,180 ft³/s Jan. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8710	5760	7950	4760	17300	43100	56200	43500	43300	29400	24700	25300
2	7150	7500	7030	4570	25600	44000	51600	44000	42400	29100	25200	25700
3	6110	6650	6010	4510	34200	43200	49200	49800	41900	29700	25000	26500
4	7300	8230	5010	4490	39600	42600	48700	64200	40300	29800	25400	26400
5	11800	10300	4890	4680	37800	40800	47900	85300	38800	29400	26100	27100
6	11000	8620	4850	4550	35200	39900	49500	101000	37600	28700	26600	27200
7	12500	5890	4580	4310	33500	39000	50200	86700	36900	28200	26600	27300
8	10500	7220	4460	4280	32000	43300	50300	71700	35800	26000	26000	27600
9	7160	7700	4970	4290	30700	50600	51400	62200	33600	23400	24900	26900
10	5530	11200	6340	4180	29500	49500	51600	55000	31600	22200	25300	26700
11	6590	12800	5490	4260	31500	45800	50400	49300	29900	22500	25300	27100
12	9740	9460	4740	4360	29600	42600	44800	46000	28300	23100	25600	26300
13	11800	6820	4370	e4400	27400	41400	44400	43200	28000	24000	25300	25900
14	14400	5310	4930	e4500	28800	43000	45300	41600	28500	23900	25500	24400
15	13800	5070	5500	e4600	32500	46000	46300	40200	28000	25200	25000	19300
16	11900	7760	6030	e4700	40000	48800	47500	39700	28900	25700	25700	14600
17	10700	8730	6320	4760	42400	48600	50500	40200	29500	25300	25800	11800
18	8610	11700	6670	4960	41700	47200	59300	40000	30200	24600	26100	10300
19	9120	12000	5340	6970	41800	46200	59400	40100	30400	24100	26000	11900
20	12800	11000	4830	14400	42000	45600	58200	38800	30200	23800	25800	14200
21	13500	9750	4750	18300	43500	46500	57800	41700	30500	23500	25600	e13500
22	12500	6790	4510	20400	44900	47700	58100	46000	30700	24200	25400	e13800
23	8490	6260	4700	19200	45700	48700	57400	45200	30400	23900	24600	e14200
24	6330	7760	5740	19000	45600	48800	55000	42600	28700	23600	24300	e14500
25	6670	8090	7950	18800	45700	49500	51100	40700	29000	23600	24100	13600
26	10200	5740	8110	17700	45600	49800	48200	39500	29000	23300	24400	13800
27	9830	4970	7190	17100	45100	49200	47200	41300	28700	23400	24000	18200
28	8000	4650	5990	17100	43600	48800	47800	44200	28700	24000	24600	19200
29	6080	4520	5120	15300	---	49000	47800	46300	28800	23400	24400	21700
30	5490	5100	4850	12700	---	50600	45400	46300	29400	23400	25600	22800
31	5030	---	4810	12500	---	57000	---	44700	---	24800	25700	---
TOTAL	289340	233350	174030	290630	1032800	1436800	1528500	1561000	968000	779200	784600	617800
MEAN	9334	7778	5614	9375	36890	46350	50950	50350	32270	25140	25310	20590
MAX	14400	12800	8110	20400	45700	57000	59400	101000	43300	29800	26600	27600
MIN	5030	4520	4370	4180	17300	39000	44400	38800	28000	22200	24000	10300
AC-FT	573900	462800	345200	576500	2049000	2850000	3032000	3096000	1920000	1546000	1556000	1225000

CAL YR 1989 TOTAL 8591300 MEAN 23540 MAX 130000 MIN 4370 AC-FT 17040000
WTR YR 1990 TOTAL 9696050 MEAN 26560 MAX 101000 MIN 4180 AC-FT 19230000

e Estimated

07074500 WHITE RIVER AT NEWPORT, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946 to 1961, January to August 1978, November 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1945 to September 1961, November 1978 to September 1981.
WATER TEMPERATURES: October 1945 to September 1961, November 1978 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
NOV											
20...	0900	80513	80513	9930	306	8.4	10.0	2.9	10.4	93	758
JAN											
03...	1130	80513	80513	4680	355	8.3	5.0	3.3	12.8	101	756
MAR											
28...	1100	80513	80020	51300	268	8.2	9.0	11	13.5	117	760
MAY											
14...	0850	80513	80020	--	235	8.1	16.0	25	7.5	76	760
JUN											
27...	1015	80513	80020	22700	275	8.6	19.0	13	9.8	107	756
AUG											
28...	1000	80513	80020	25400	265	7.6	20.5	5.7	8.7	97	759

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
NOV										
20...	0900	26	21	150	7	37	14	3.7	5	0.1
JAN										
03...	1130	3	65	180	5	40	19	4.1	5	0.1
MAR										
28...	1100	K16	110	130	1	33	12	2.6	4	0.1
MAY										
14...	0850	29	K150	120	0	30	11	1.8	3	0.1
JUN										
27...	1015	21	48	140	6	35	13	2.9	4	0.1
AUG										
28...	1000	230	150	130	--	35	11	2.9	4	0.1

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
NOV										
20...	0900	1.4	144	1	173	144	7.0	4.7	0.10	4.6
JAN										
03...	1130	1.1	172	0	211	173	8.0	5.0	0.10	6.1
MAR										
28...	1100	1.3	130	0	159	130	6.5	5.6	<0.10	4.1
MAY										
14...	0850	1.3	121	0	149	122	5.5	2.3	<0.10	6.9
JUN										
27...	1015	1.4	135	0	165	135	10	10	<0.10	5.3
AUG										
28...	1000	1.5	--	--	--	--	6.1	5.3	0.30	5.6

07074500 WHITE RIVER AT NEWPORT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV										
20...	0900	186	159	4990	0.25	<0.010	0.140	<0.010	<0.010	--
JAN										
03...	1130	195	188	2460	0.27	<0.010	<0.100	0.020	0.370	0.28
MAR										
28...	1100	129	143	17900	0.18	<0.010	<0.100	0.010	<0.010	0.29
MAY										
14...	0850	129	133	--	0.18	<0.010	0.300	0.030	0.020	0.27
JUN										
27...	1015	150	159	9190	0.20	<0.010	<0.300	0.090	<0.030	0.21
AUG										
28...	1000	138	145	9460	0.19	<0.010	0.300	<0.010	<0.010	--

DATE	TIME	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
NOV										
20...	0900	<0.20	0.010	<0.010	<0.010	35	<10	<1	<0.5	<1.0
JAN										
03...	1130	0.30	0.030	0.110	0.110	--	--	--	--	--
MAR										
28...	1100	0.30	0.010	<0.010	<0.010	32	20	<1	0.5	3.0
MAY										
14...	0850	0.30	0.070	0.030	0.020	--	--	--	--	--
JUN										
27...	1015	0.30	0.070	0.030	<0.020	36	10	<1	<0.5	<1.0
AUG										
28...	1000	--	0.030	<0.010	<0.010	34	<10	<1	<0.5	<1.0

DATE	TIME	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
NOV										
20...	0900	<1	<3	2	17	<1	<4	4	0.1	<10
MAR										
28...	1100	<5	<3	<10	18	<10	<4	3	<0.1	<10
JUN										
27...	1015	<1	<3	7	9	<1	9	2	<0.1	<10
AUG										
28...	1000	<1	<3	2	6	<1	<4	1	<0.1	<10

DATE	TIME	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
20...	0900	<1	<1	<1.0	37	<6	8	10	268	97
JAN										
03...	1130	--	--	--	--	--	--	41	518	60
MAR										
28...	1100	<10	<1	<1.0	32	<6	8	35	4850	71
MAY										
14...	0850	--	--	--	--	--	--	48	--	95
JUN										
27...	1015	1	<1	<1.0	35	<6	10	41	2510	88
AUG										
28...	1000	<1	<1	<1.0	35	<6	3	36	2470	73

07074990 MIDDLE FORK LITTLE RED RIVER NEAR SHIRLEY, ARKANSAS

LOCATION.--Lat 35°39'06", long 92°19'20", in NE ¼ sec.25, T.12 N., R.13 W., Van Buren County, Hydrologic Unit 11010014, at bridge on State Highway 9, 0.2 mi south of Shirley, and at mile 124.4.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
10.	1130	9827	9827	155	7.7	18.0	2.7	8.1	0.8
NOV									
07.	1200	9827	9827	190	7.7	15.0	2.2	9.3	1.6
DEC									
12.	1500	9827	9827	230	7.8	3.0	2.5	12.3	0.6
JAN									
09.	1045	9827	9827	250	8.0	5.0	2.5	12.4	0.9
FEB									
13.	1045	9827	9827	480	7.6	11.0	8.2	10.3	0.6
MAR									
13.	1010	9827	9827	900	7.6	16.0	6.5	9.6	0.8
APR									
03.	1050	9827	9827	790	7.8	12.0	--	10.4	0.8
MAY									
08.	1115	9827	9827	720	7.8	18.0	7.2	8.9	0.3
JUN									
12.	1105	9827	9827	190	7.6	27.0	--	7.5	0.9
JUL									
17.	1000	9827	9827	--	7.6	27.0	--	7.6	1.1
AUG									
11.	1130	9827	9827	180	7.6	27.0	--	7.8	2.1
14.	1000	9827	9827	540	7.6	25.0	--	7.0	1.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
10.	1130	44	4.0	2.4	41	3	0.020	<0.050	<0.030
NOV									
07.	1200	42	5.0	3.2	44	4	<0.020	<0.050	<0.030
DEC									
12.	1500	36	5.0	3.5	42	3	<0.020	<0.050	<0.030
JAN									
09.	1045	38	7.0	3.4	41	1	--	<0.050	0.040
FEB									
13.	1045	34	6.0	3.8	42	6	0.120	<0.050	0.060
MAR									
13.	1010	28	5.0	2.9	41	3	0.100	<0.050	0.100
APR									
03.	1050	30	4.0	2.4	69	2	0.060	0.050	0.080
MAY									
08.	1115	32	7.0	2.1	52	6	0.110	<0.050	0.070
JUN									
12.	1105	44	3.0	2.1	53	9	0.020	<0.050	0.060
JUL									
17.	1000	--	4.0	2.7	68	5	0.020	<0.050	0.040
AUG									
11.	1130	38	7.0	3.6	53	8	<0.020	<0.050	0.050
14.	1000	32	3.0	3.1	51	11	0.060	0.090	0.060

07074990 MIDDLE FORK LITTLE RED RIVER NEAR SHIRLEY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1130	<0.030	<1	1	<15	<2	<10	--
NOV								
07.	1200	<0.030	<1	2	<15	<2	70	2.1
DEC								
12.	1500	<0.030	<1	<1	<15	<2	30	1.1
JAN								
09.	1045	<0.030	--	--	--	--	--	--
FEB								
13.	1045	<0.030	--	--	--	--	--	3.4
MAR								
13.	1010	<0.030	--	--	--	--	--	2.2
APR								
03.	1050	0.030	--	--	--	--	--	--
MAY								
08.	1115	<0.030	--	--	--	--	--	2.6
JUN								
12.	1105	0.030	--	--	--	--	--	3.9
JUL								
17.	1000	0.060	--	--	--	--	--	3.5
AUG								
11.	1130	<0.030	--	--	--	--	--	3.1
14.	1000	<0.030	--	--	--	--	--	3.5

07075300 SOUTH FORK LITTLE RED RIVER AT CLINTON, ARKANSAS

LOCATION.--Lat 35°35'29", long 92°27'20", in SW ¼ 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 upstream from Archey Creek, and at mile 23.7.

DRAINAGE AREA.--148 mi².

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 above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1966, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Satellite telemeter at station.

AVERAGE DISCHARGE.--29 years, 239 ft³/s, 21.93 in/yr, 173,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,900 ft³/s Dec. 3, 1982, gage height, 34.27 ft, from flood-marks, from rating curve extended above 24,000 ft³/s on the basis of slope area and flow-over-road measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 01	1500	5,090	11.95	May 03	1400	*18,000	*18.18
Mar. 08	0900	9,820	14.74				

No flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.00	5.0	e8.5	3160	459	711	453	261	17	.79	.00
2	1.1	.00	5.0	e7.5	2550	455	521	3360	449	15	.60	.00
3	.55	.00	5.0	e15	1380	403	408	10200	370	14	.50	.00
4	.05	.00	5.0	e15	945	359	346	2400	269	12	4.6	.00
5	.00	.00	5.0	e10	659	326	301	1050	211	11	5.6	.00
6	.00	.29	5.0	e10	523	304	277	666	176	10	4.2	.00
7	.00	.61	5.1	e9.0	429	900	243	484	148	9.0	3.4	.00
8	.00	.80	5.9	e8.5	366	5740	216	377	126	8.0	2.3	.00
9	.00	.80	5.6	e8.0	373	1560	198	320	108	7.3	1.4	.00
10	.00	.80	5.6	e8.0	540	902	245	270	94	6.4	.88	21
11	.00	.80	5.6	e7.5	436	646	312	225	81	5.7	.80	17
12	.00	.80	5.9	e7.0	372	548	264	223	69	6.0	.76	4.3
13	.00	.80	5.6	e7.0	332	461	241	200	60	5.9	18	2.3
14	.00	1.7	6.1	e6.5	305	440	230	171	53	4.0	14	1.8
15	.00	2.1	5.6	e6.5	1900	1540	220	149	46	3.2	10	1.1
16	.00	1.9	4.7	e25	1250	793	278	131	57	2.6	7.5	.65
17	.00	1.3	4.4	e40	760	561	891	122	59	2.2	6.8	.36
18	.00	1.2	4.4	e140	586	435	892	113	47	1.8	5.9	.59
19	.00	1.0	4.8	1410	485	370	594	276	40	3.7	4.1	.22
20	.00	1.0	5.0	2360	404	313	1120	1710	34	1.9	3.0	.44
21	.00	1.0	e6.0	684	369	278	2440	923	31	1.1	2.6	1.3
22	.00	4.2	e5.5	431	775	249	1550	598	50	.82	1.9	.98
23	.00	6.1	e5.5	331	661	222	1390	412	50	1.3	3.2	.29
24	.00	2.9	e5.0	279	519	203	828	312	37	1.4	2.8	.00
25	.00	3.7	e5.0	241	427	216	613	250	32	1.3	2.2	.00
26	.00	5.0	e4.5	212	378	202	493	245	29	3.0	1.5	.00
27	.00	5.3	e4.5	193	345	189	560	547	28	3.2	1.1	.00
28	.00	5.6	e4.5	181	321	237	755	544	25	2.8	.62	.00
29	.00	5.0	e5.0	205	---	438	587	350	22	2.1	.15	.00
30	.00	5.0	e5.5	217	---	1690	472	279	19	1.4	.00	.98
31	.00	---	e7.0	208	---	1110	---	290	---	.91	.00	---
TOTAL	2.90	59.70	162.3	7291.0	21550	22549	18196	27650	3081	166.03	111.20	53.31
MEAN	.094	1.99	5.24	235	770	727	607	892	103	5.36	3.59	1.78
MAX	1.2	6.1	7.0	2360	3160	5740	2440	10200	449	17	18	21
MIN	.00	.00	4.4	6.5	305	189	198	113	19	.82	.00	.00
AC-FT	5.8	118	322	14460	42740	44730	36090	54840	6110	329	221	106
CFSM	.00	.01	.04	1.59	5.20	4.91	4.10	6.03	.69	.04	.02	.01
IN.	.00	.02	.04	1.83	5.42	5.67	4.57	6.95	.77	.04	.03	.01

CAL YR 1989 TOTAL 77206.82 MEAN 212 MAX 10200 MIN .00 AC-FT 153100 CFSM 1.43 IN. 19.41
WTR YR 1990 TOTAL 100872.44 MEAN 276 MAX 10200 MIN .00 AC-FT 200100 CFSM 1.87 IN. 25.35

e Estimated

07076620 LITTLE RED RIVER NEAR SEARCY, ARKANSAS

LOCATION.--Lat 35°16'57", long 91°43'09", in NE ¼ NE ¼ sec.35, T.8 N., R.7 W., White County, Hydrologic Unit 11010014, on right bank 0.8 mi upstream from lower dam, and 1.0 mi upstream from old Highway 67 bridge, 2.0 mi north of Searcy, and at mile 31.7.

DRAINAGE AREA.--1,648 mi².

PERIOD OF RECORD.--May 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 171.77 ft above National Geodetic Vertical Datum of 1929. Since May 20, 1983, auxiliary water-stage recorder 6.5 mi downstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated since Mar. 30, 1982, by Greers Ferry Lake 47.1 mi upstream, capacity, 2,926,500 acre-ft.

AVERAGE DISCHARGE.--7 years, 2,582 ft³/s, 1,871,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,300 ft³/s Nov. 27, 1984; maximum gage height, 36.30 ft Mar. 8, 1990; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,100 ft³/s Mar. 8; maximum gage height; 36.30 ft, Mar. 8; minimum daily discharge, 5 ft³/s Aug. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	76	1820	140	6100	9220	6530	3160	4100	5480	2010	549
2	202	78	282	133	10400	9060	5800	8620	4450	5570	48	215
3	253	314	114	136	9940	6800	3820	11900	3400	5670	451	192
4	213	312	80	154	9820	4620	3940	7970	2860	6170	751	177
5	473	395	74	169	7510	4290	3590	5260	4170	5510	204	1880
6	241	127	81	213	7290	4130	3860	5150	4030	5950	5	2160
7	195	82	84	189	7650	5590	2700	5060	3700	6140	657	2390
8	191	103	1710	173	7340	21400	4330	5030	3560	5860	1200	628
9	184	244	277	169	7670	15300	5830	4740	3520	5680	174	70
10	197	108	117	158	11900	6760	6540	4300	3420	4760	163	64
11	197	236	85	154	8440	5130	2570	4410	3500	4590	300	15
12	255	219	82	152	2890	4730	2900	4000	3380	5100	517	188
13	224	101	1730	147	3010	7850	2830	3760	3340	4580	448	512
14	218	243	274	140	5000	8310	2740	3470	3250	5060	336	110
15	279	426	107	140	11100	9040	3040	3200	3360	4630	1110	246
16	212	129	81	140	9360	7340	2080	3460	3490	4910	2340	509
17	366	78	78	184	6580	5090	e4200	3380	3720	4040	2000	408
18	425	72	78	432	5570	4930	e2400	3560	3320	4620	1000	399
19	352	183	83	1690	4700	5980	e4200	4680	3610	4600	630	514
20	150	122	83	9710	4490	8180	e4400	10100	3960	4590	344	449
21	107	83	75	3930	4810	8950	e1900	6500	4000	4700	1080	365
22	101	84	202	1560	7120	8920	e1300	6630	5840	4520	976	839
23	92	1640	306	1060	6920	8410	e3300	5160	4540	4180	1020	420
24	167	343	271	856	5610	8950	e4900	3810	4440	4180	692	263
25	451	119	131	1030	5150	9260	4650	4760	4500	4220	1040	228
26	375	82	92	1770	4760	9300	4470	3950	4230	4200	1200	789
27	140	78	115	960	7000	8930	4420	5440	4890	4190	410	965
28	184	81	492	531	8030	5400	5600	5140	4080	5320	3150	840
29	472	83	221	1280	---	6190	5370	3050	4000	6170	1770	1470
30	146	86	142	1530	---	13000	4600	4490	4960	4830	2020	864
31	87	---	153	2110	---	13000	---	4450	---	3980	2450	---
TOTAL	7390	6327	9520	31140	196160	254060	118810	158590	117620	154000	30496	18718
MEAN	238	211	307	1005	7006	8195	3960	5116	3921	4968	984	624
MAX	473	1640	1820	9710	11900	21400	6540	11900	5840	6170	3150	2390
MIN	87	72	74	133	2890	4130	1300	3050	2860	3980	5.0	15
AC-FT	14660	12550	18880	61770	389100	503900	235700	314600	233300	305500	60490	37130

CAL YR 1989 TOTAL 875045 MEAN 2397 MAX 13100 MIN 11 AC-FT 1736000
WTR YR 1990 TOTAL 1102831 MEAN 3021 MAX 21400 MIN 5.0 AC-FT 2187000

e Estimated

07076626 LITTLE RED RIVER ABOVE SEARCY, ARKANSAS

LOCATION.--Lat 35°16'12", long 91°42'26", in SE ¼ SW ¼ sec.36, T.8 N., R.7 W., White County, Hydrologic Unit 11010014, 1,200 ft downstream from lower dam at bridge on State Highway 367 at Searcy.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 11...	0910	9827	9827	197	7.4	16.0	3.8	9.0	0.5
NOV 07...	0900	9827	9827	82	7.5	14.0	3.0	10.0	1.1
DEC 13...	0830	9827	9827	1730	7.6	2.0	9.0	12.3	0.8
JAN 09...	1335	9827	9827	169	7.9	6.0	3.5	13.0	1.0
FEB 14...	0830	9827	9827	5000	7.8	9.0	7.4	10.2	0.6
MAR 14...	0900	9827	9827	8310	7.4	12.0	4.5	10.7	1.1
APR 04...	1005	9827	9827	3940	7.6	11.0	--	--	1.1
MAY 08...	0900	9827	9827	5030	7.5	15.0	5.8	9.4	0.6
JUN 12...	0830	9827	9827	3380	7.4	16.0	--	8.7	0.8
JUL 17...	0830	9827	9827	4040	7.1	15.0	--	10.0	0.8
AUG 15...	0830	9827	9827	1110	7.3	22.0	--	7.8	0.9
SEP 11...	0845	9827	9827	15	7.2	20.0	--	8.3	0.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 11...	0910	26	4.0	2.0	25	3	0.030	<0.050	0.38
NOV 07...	0900	18	4.0	3.0	32	3	<0.020	<0.050	0.66
DEC 13...	0830	20	5.0	3.2	30	17	0.100	<0.050	0.34
JAN 09...	1335	18	6.0	3.9	24	1	--	<0.050	0.40
FEB 14...	0830	16	3.0	3.8	30	12	0.210	<0.050	0.52
MAR 14...	0900	12	3.0	2.6	17	6	0.130	<0.050	0.36
APR 04...	1005	16	5.0	2.1	43	4	0.140	0.070	0.34
MAY 08...	0900	16	6.0	2.0	38	7	0.140	<0.050	0.62
JUN 12...	0830	18	2.0	1.8	30	5	0.120	<0.050	0.37
JUL 17...	0830	--	2.0	1.8	4	6	0.170	<0.050	0.64
AUG 15...	0830	20	2.0	2.8	39	6	0.100	0.070	0.28
SEP 11...	0845	14	2.0	2.6	34	4	0.090	<0.050	--

07076626 LITTLE RED RIVER ABOVE SEARCY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
11...	0910	<0.030	<0.030	<1	<1	<15	<2	<10	--
NOV									
07...	0900	0.030	<0.030	<1	1	<15	<2	20	3.0
DEC									
13...	0830	0.070	<0.030	<1	<1	<15	<2	30	2.0
JAN									
09...	1335	0.050	<0.030	--	--	--	--	--	--
FEB									
14...	0830	0.090	<0.030	--	--	--	--	--	5.1
MAR									
14...	0900	0.080	<0.030	--	--	--	--	--	2.4
APR									
04...	1005	0.050	<0.030	--	--	--	--	--	--
MAY									
08...	0900	0.090	<0.030	--	--	--	--	--	3.3
JUN									
12...	0830	0.080	<0.030	--	--	--	--	--	2.1
JUL									
17...	0830	0.030	0.030	--	--	--	--	--	2.8
AUG									
15...	0830	0.030	<0.030	--	--	--	--	--	2.6
SEP									
11...	0845	0.050	<0.030	--	--	--	--	--	2.3

07076632 LITTLE RED RIVER BELOW SEARCY, ARKANSAS

LOCATION.--Lat 35°15'19", long 91°40'34", in SW ¼ SW ¼ sec.5, T.7 N., R.6 W., White County, Hydrologic Unit 11010014, at bridge on State Highway 367, 2.2 mi east of Searcy, and 3.0 mi west of Judsonia.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 11...	0930	9827	9827	197	7.3	16.5	4.0	8.2	0.6
NOV 07...	0930	9827	9827	82	7.3	15.0	4.2	8.5	1.9
DEC 13...	0845	9827	9827	1730	7.5	2.0	8.5	12.5	0.7
JAN 09...	1315	9827	9827	169	7.6	7.0	4.0	12.0	2.0
FEB 14...	0900	9827	9827	5000	7.7	9.0	10	10.5	0.6
MAR 14...	0920	9827	9827	8310	7.5	11.5	6.5	10.6	0.7
APR 04...	1025	9827	9827	3940	7.5	11.0	--	--	3.5
MAY 09...	0920	9827	9827	4740	7.5	15.0	5.2	9.7	2.9
JUN 12...	0900	9827	9827	3380	7.4	16.0	--	8.8	0.8
JUL 17...	0910	9827	9827	4040	7.1	15.0	--	9.9	0.5
AUG 15...	0900	9827	9827	1110	7.1	22.0	--	7.1	2.3
SEP 11...	0915	9827	9827	15	7.1	20.0	--	8.5	1.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 11...	0930	20	5.0	2.3	26	5	0.050	0.060	0.54
NOV 07...	0930	20	6.0	4.1	37	4	0.090	0.410	0.50
DEC 13...	0845	24	5.0	3.1	28	20	0.100	<0.050	0.48
JAN 09...	1315	20	8.0	5.3	37	<1	--	0.370	0.80
FEB 14...	0900	12	4.0	3.9	20	10	0.220	<0.050	0.52
MAR 14...	0920	16	3.0	3.0	25	7	0.140	<0.050	0.54
APR 04...	1025	20	4.0	2.5	44	6	0.150	0.130	--
MAY 09...	0920	10	5.0	2.2	34	5	0.120	<0.050	0.57
JUN 12...	0900	22	4.0	2.0	17	13	0.130	0.050	0.47
JUL 17...	0910	--	2.0	2.1	13	17	0.180	<0.050	0.81
AUG 15...	0900	26	3.0	3.3	30	10	0.120	<0.050	1.3
SEP 11...	0915	18	4.0	3.4	35	4	0.130	0.110	--

07076632 LITTLE RED RIVER BELOW SEARCY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
11...	0930	0.080	0.040	<1	<1	<15	<2	<10	--
NOV									
07...	0930	0.300	0.230	<1	1	<15	<2	20	3.5
DEC									
13...	0845	0.060	<0.030	<1	<1	15	<2	30	2.4
JAN									
09...	1315	0.240	0.140	--	--	--	--	--	--
FEB									
14...	0900	0.150	<0.030	--	--	--	--	--	7.4
MAR									
14...	0920	0.240	<0.030	--	--	--	--	--	6.0
APR									
04...	1025	0.160	0.040	--	--	--	--	--	--
MAY									
09...	0920	0.070	<0.030	--	--	--	--	--	2.5
JUN									
12...	0900	0.060	<0.030	--	--	--	--	--	3.5
JUL									
17...	0910	0.040	0.060	--	--	--	--	--	4.0
AUG									
15...	0900	0.080	<0.030	--	--	--	--	--	3.6
SEP									
11...	0915	0.100	0.040	--	--	--	--	--	2.4

07076950 WATTENSAW BAYOU NEAR HAZEN, ARKANSAS

LOCATION.--Lat 34°52'34", long 91°33'56", in SE ¼ SE ¼ sec.18, T.3 N., R.5 W., Prairie County, Hydrologic Unit 08020301, at bridge on State Highway 11, 7.0 mi north of Hazen.

DRAINAGE AREA.--192 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 24.	1425	9827	9827	--	7.4	18.0	5.5	3.4	1.4
NOV 28.	1415	9827	9827	--	7.6	13.0	5.2	7.2	5.0
DEC 05.	1300	9827	9827	--	7.6	8.0	3.6	8.1	2.9
JAN 23.	1400	9827	9827	--	7.3	9.0	70	8.4	2.1
FEB 20.	1345	9827	9827	--	7.6	9.0	40	8.6	1.3
MAR 27.	1255	9827	9827	0.0	7.8	10.0	25	9.6	5.5
APR 24.	1230	9827	9827	1000	7.5	23.0	35	4.7	1.6
MAY 22.	1145	9827	9827	--	7.3	20.0	--	4.9	2.7
JUN 26.	1317	9827	9827	16	7.4	--	--	1.8	2.0
JUL 31.	1245	9827	9827	0.0	7.7	27.0	--	2.8	1.0
AUG 28.	1320	9827	9827	0.0	7.6	30.0	--	3.8	1.8
SEP 11.	1315	9827	9827	0.0	7.7	24.0	--	4.8	1.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	1425	110	5.0	34	201	10	<0.020	<0.050	0.090
NOV 28.	1415	100	6.0	31	169	14	<0.020	<0.050	0.110
DEC 05.	1300	96	6.0	29	--	--	--	--	0.090
JAN 23.	1400	10	10	5.4	89	--	0.330	0.060	0.190
FEB 20.	1345	30	8.0	5.8	83	13	0.130	0.060	0.150
MAR 27.	1255	76	11	17	115	17	0.140	<0.050	0.240
APR 24.	1230	28	7.0	3.8	74	10	0.110	0.070	0.160
MAY 22.	1145	24	10	6.0	109	--	0.310	0.160	0.290
JUN 26.	1317	90	11	22	--	9	0.300	0.110	0.210
JUL 31.	1245	140	5.0	33	215	13	0.170	--	0.190
AUG 28.	1320	110	6.0	5.4	--	--	0.340	<0.050	0.150
SEP 11.	1315	130	19	26	172	--	0.170	0.130	0.160

07076950 WATTENSAW BAYOU NEAR HAZEN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1425	0.050	<1	--	<15	2	<10	11
NOV								
28.	1415	<0.030	<1	1	<15	<2	<10	11
DEC								
05.	1300	<0.030	<1	<1	16	<2	<10	--
JAN								
23.	1400	--	--	--	--	--	--	9.2
FEB								
20.	1345	0.070	--	--	--	--	--	9.6
MAR								
27.	1255	0.090	--	--	--	--	--	11
APR								
24.	1230	0.070	--	--	--	--	--	13
MAY								
22.	1145	0.150	--	--	--	--	--	11
JUN								
26.	1317	0.070	--	--	--	--	--	12
JUL								
31.	1245	0.070	--	--	--	--	--	9.8
AUG								
28.	1320	<0.030	--	--	--	--	--	--
SEP								
11.	1315	<0.030	--	--	--	--	--	11

07077000 WHITE RIVER AT DEVALLS BLUFF, ARKANSAS

LOCATION.--Lat 34°47'25", long 91°26'45", in SE ¼ 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 northeast of DeValls Bluff, 7.5 mi downstream from Wattensaw Bayou, 24.1 mi upstream from Cache River, and at mile 125.3.

DRAINAGE AREA.--23,431 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1945 (large part of floodflow above station overflowed into Cache River and was not included in the records), October 1949 to September 1970, October 1988 to current year. Monthly discharge only for some periods, published in WSP 1311. Daily stages for the period October 1970 to date published in reports of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 152.93 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 22, 1933, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Some regulation since 1943 by Norfork Lake, capacity, 1,983,000 acre-ft, since 1948 by Clearwater Lake (Missouri), capacity, 413,700 acre-ft, since July 24, 1951, by Bull Shoals Lake, capacity, 5,408,000 acre-ft, since Sept. 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 acre-ft, and since Dec. 26, 1963, by Beaver Lake, capacity, 1,951,500 acre-ft. Satellite telemeter at station.

COOPERATION.--Gage-height record was provided by the U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--23 years (water years, 1949-70, 1989-90), 26,290 ft³/s, 19,050,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 154,000 ft³/s Jan. 19-22, 1950; maximum gage height, 28.42 ft Jan. 20, 21, 1950; minimum discharge, 3,230 ft³/s Sept. 29 to Oct. 1, Oct. 29, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 23, 1927 reached a stage of 34.6 ft. Flood of Feb. 3, 1949, reached a stage of 31.35 ft, discharge, 220,000 ft³/s by current-meter measurement, furnished by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78,300 ft³/s Mar. 12; maximum gage height, 24.12 ft May 11; minimum discharge, 5,060 ft³/s Jan. 13-14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7350	7770	5850	6440	18000	52100	70600	59500	48000	34500	29100	25800
2	7660	7030	5920	6050	20600	52800	74500	60400	47800	34500	28100	25900
3	8050	6590	6700	5780	28900	53100	76700	62500	48100	34500	26700	25700
4	8140	6830	7100	5670	36800	53500	76100	62900	47900	34600	26000	25600
5	7780	7230	7090	5560	40400	53800	74000	64100	47700	34700	25800	25800
6	7620	8110	6660	5410	42100	53900	73200	64800	47500	34700	25800	26400
7	8770	9090	6210	5410	43000	54200	69900	64700	47100	34700	25700	27300
8	9830	9460	5910	5570	43300	60200	65400	65500	46500	34700	26000	28300
9	10500	9000	5890	5600	43900	66000	62300	69100	45900	34600	26300	28700
10	10600	8510	6010	5480	45200	70400	60500	73800	45300	34200	26100	28700
11	9760	8500	5730	5340	45500	75500	59700	75700	44500	33200	25400	28500
12	8530	9310	5730	5160	45200	77800	58500	74600	43200	32100	25000	28500
13	7690	10500	5920	5070	45100	76200	57500	72600	42000	31100	25100	28800
14	8050	10600	6190	5080	44700	72300	57100	67900	40900	30600	25300	28900
15	9370	9870	6240	5120	44900	68900	56000	62500	39800	30300	25300	28500
16	11000	8900	5770	5120	46200	66000	54500	57400	38900	30200	25400	26800
17	12000	7970	5660	5210	46000	63300	53700	54200	38200	30300	25800	23600
18	12000	7740	5850	5760	46000	61400	53100	51900	37600	30300	26100	19700
19	11400	8370	6210	6450	46500	60300	52900	50100	37200	30300	26000	16700
20	10600	9590	6540	9520	46900	59300	53200	49700	37000	30100	25700	14700
21	10100	10600	6560	14900	47300	58400	55800	49600	36800	29800	25400	14000
22	10400	10700	6400	19200	48100	57600	60300	49700	37000	29500	25100	14100
23	11200	10300	6400	21800	48500	57400	64000	49900	37200	29300	25000	15200
24	11400	9730	6400	23300	48800	57100	66600	50300	37300	29000	24900	16200
25	10700	8970	6080	23400	49100	57100	67500	50600	37000	28600	24600	16300
26	9600	8380	5590	22600	49600	57100	67000	50600	36600	28400	24500	15700
27	8770	8200	5530	21600	50200	57100	66300	50500	36100	28100	24500	14700
28	8840	7770	6180	20300	51000	57800	66400	50200	35700	27900	24400	14400
29	9310	7080	6830	20300	---	59200	64700	49500	35200	28300	24900	15000
30	9260	6400	7030	20000	---	62700	61700	48900	34700	29100	25200	16400
31	8620	---	6830	18800	---	67600	---	48400	---	29400	25300	---
TOTAL	294900	259100	193010	341000	1211800	1900100	1899700	1812100	1234700	971600	794500	664900
MEAN	9513	8637	6226	11000	43280	61290	63320	58450	41160	31340	25630	22160
MAX	12000	10700	7100	23400	51000	77800	76700	75700	48100	34700	29100	28900
MIN	7350	6400	5530	5070	18000	52100	52900	48400	34700	27900	24400	14000
AC-FT	584900	513900	382800	676400	2404000	3769000	3768000	3594000	2449000	1927000	1576000	1319000

CAL YR 1989 TOTAL 11154140 MEAN 30560 MAX 140000 MIN 5530 AC-FT 22120000
WTR YR 1990 TOTAL 11577410 MEAN 31720 MAX 77800 MIN 5070 AC-FT 22960000

07077000 WHITE RIVER AT DEVALLS BLUFF, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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 were furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
24.	1400	9827	9827	8.3	17.0	15	9.0	--	150
NOV									
28.	1335	9827	9827	8.4	13.0	6.5	11.6	1.5	160
JAN									
23.	1315	9827	9827	7.6	9.0	110	10.2	1.6	92
FEB									
20.	1300	9827	9827	7.3	13.0	85	9.2	1.3	80
MAR									
27.	1030	9827	9827	8.0	12.0	20	10.7	0.7	110
APR									
24.	1145	9827	9827	7.6	20.0	20	7.4	1.3	86
MAY									
22.	1100	9827	9827	7.8	20.0	--	7.4	1.0	100
JUN									
26.	1248	9827	9827	7.9	25.0	--	8.1	0.8	110
JUL									
31.	1155	9827	9827	8.2	28.0	--	9.9	2.3	120
AUG									
28.	1255	9827	9827	8.3	25.0	--	8.9	0.9	120
SEP									
11.	1245	9827	9827	8.2	27.0	--	8.6	0.7	130

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
24.	1400	6.0	4.9	176	20	0.130	<0.050	0.050
NOV								
28.	1335	8.0	6.3	161	14	<0.020	<0.050	0.040
JAN								
23.	1315	9.0	5.1	128	--	0.360	0.060	0.200
FEB								
20.	1300	8.0	3.7	115	111	0.200	<0.050	0.160
MAR								
27.	1030	5.0	4.3	68	23	0.150	<0.050	0.070
APR								
24.	1145	6.0	3.2	99	17	0.080	<0.050	0.090
MAY								
22.	1100	5.0	3.8	119	--	0.220	<0.050	0.140
JUN								
26.	1248	9.0	6.0	--	45	0.240	<0.050	0.150
JUL								
31.	1155	5.0	4.9	135	74	0.360	--	0.100
AUG								
28.	1255	6.0	5.6	--	--	0.350	<0.050	0.040
SEP								
11.	1245	4.0	4.7	150	--	0.340	<0.050	0.080

07077000 WHITE RIVER AT DEVALLS BLUFF, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1400	0.040	<1	--	<15	4	<10	4.5
NOV								
28.	1335	<0.030	<1	2	<15	<2	20	2.7
JAN								
23.	1315	--	--	--	--	--	--	5.7
FEB								
20.	1300	0.040	--	--	--	--	--	6.0
MAR								
27.	1030	0.030	--	--	--	--	--	3.7
APR								
24.	1145	<0.030	--	--	--	--	--	5.9
MAY								
22.	1100	<0.030	--	--	--	--	--	4.9
JUN								
26.	1248	<0.030	--	--	--	--	--	9.2
JUL								
31.	1155	<0.030	--	--	--	--	--	3.5
AUG								
28.	1255	<0.030	--	--	--	--	--	--
SEP								
11.	1245	<0.030	--	--	--	--	--	3.2

07077380 CACHE RIVER AT EGYPT, ARKANSAS

LOCATION.--Lat 35°51'28", long 90°56'00", in NW ¼ SE ¼ 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 southeast of Egypt, 2.2 mi northwest of Winesburg, and at mile 143.

DRAINAGE AREA.--701 mi².

PERIOD OF RECORD.--October 1964 to current year. Daily stages and results of discharge measurements for July 1937 to December 1940, and December 1944 to date are published in reports of U.S. Army 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 above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair, except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--26 years, 846 ft³/s, 16.39 in/yr, 612,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,940 ft³/s Jan. 6, 1966, gage height, 21.88 ft; no flow Nov. 6-11, 16, 17, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,240 ft³/s Feb. 4; maximum gage height, 19.01 ft Feb. 17; minimum daily discharge, 1.5 ft³/s Nov. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e100	7.7	5.8	386	2670	1320	3140	1260	594	52	158	270
2	e60	5.6	7.0	293	3750	1670	3040	2170	567	52	141	227
3	e40	5.1	7.7	224	4080	1630	2830	2770	428	46	125	190
4	e35	4.6	9.6	294	4220	1300	2560	2780	237	69	178	184
5	e25	4.0	12	409	4150	991	2170	2540	134	65	407	176
6	e20	4.0	14	361	4010	752	1790	1990	82	70	482	158
7	e130	59	16	299	3830	578	1400	1240	54	72	404	168
8	e80	61	20	249	3620	2280	958	626	42	73	270	209
9	e60	21	24	193	3420	2980	600	348	31	76	191	325
10	e40	9.5	27	159	3490	2940	404	217	31	70	171	383
11	e30	5.7	31	133	3400	2700	391	131	29	86	e160	361
12	e70	4.8	35	120	3180	2140	338	82	27	252	e160	350
13	e350	4.4	38	105	2830	1230	214	63	21	481	e180	352
14	e700	3.8	41	99	2360	625	134	386	27	474	e190	343
15	e1100	3.3	46	97	3170	935	89	265	25	348	e200	310
16	e1500	e2.5	51	96	3910	1270	74	139	32	236	e210	281
17	2120	e2.5	57	348	3940	853	1970	187	56	144	e200	232
18	1660	e2.0	63	929	3870	384	3060	575	80	103	e190	199
19	796	e2.0	70	1890	3740	223	3120	322	81	89	e180	192
20	372	e2.0	77	3870	3570	260	3040	160	61	94	e170	182
21	197	e1.5	e80	4150	3350	240	3060	594	63	147	153	160
22	e140	e2.0	e80	4140	3220	162	2790	782	347	234	124	146
23	e80	e2.5	e80	4020	3110	111	1720	915	849	346	133	351
24	e55	3.6	e80	3800	2850	80	711	801	584	358	156	404
25	e40	4.9	e80	3450	2460	83	667	667	297	304	185	287
26	e30	3.4	e80	2830	2020	150	419	443	176	210	212	203
27	e20	3.1	79	1860	1660	195	199	519	121	144	203	144
28	e15	2.9	77	1100	1310	146	403	1650	81	139	180	101
29	e15	3.7	79	1600	---	162	1190	1740	81	127	177	77
30	e10	4.7	99	1900	---	1820	1320	1420	66	121	322	61
31	e9.0	---	365	1620	---	3110	---	990	---	129	287	---
TOTAL	9899.0	246.8	1831.1	41024	91190	33320	43801	28772	5304	5211	6499	7026
MEAN	319	8.23	59.1	1323	3257	1075	1460	928	177	168	210	234
MAX	2120	61	365	4150	4220	3110	3140	2780	849	481	482	404
MIN	9.0	1.5	5.8	96	1310	80	74	63	21	46	124	61
AC-FT	19630	490	3630	81370	180900	66090	86880	57070	10520	10340	12890	13940
CFSM	.46	.01	.08	1.89	4.65	1.53	2.08	1.32	.25	.24	.30	.33
IN.	.53	.01	.10	2.18	4.84	1.77	2.32	1.53	.28	.28	.34	.37

CAL YR 1989 TOTAL 391810.9 MEAN 1073 MAX 6000 MIN 1.5 AC-FT 777200 CFSM 1.53 IN. 20.79
WTR YR 1990 TOTAL 274123.9 MEAN 751 MAX 4220 MIN 1.5 AC-FT 543700 CFSM 1.07 IN. 14.55

e Estimated

07077500 CACHE RIVER AT PATTERSON, ARKANSAS

LOCATION.--Lat 35°16'10", long 91°14'15", in SE ¼ 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 upstream from Maple Slough, and at mile 77.2.

DRAINAGE AREA.--1,037 mi².

PERIOD OF RECORD.--October 1952 to May 1955, October 1975 to current year.

COOPERATION.--Additional records were furnished by Ouachita Baptist University, Arkadelphia, Arkansas.

REMARKS.--Discharge computed by U. S. Geological Survey.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: April 1987 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 606 mg/L May 7, 1987; minimum daily mean, 19 mg/L December 20, 1989.
SEDIMENT LOADS: Maximum daily, 3,240 tons, December 26, 1987; minimum daily, .23 tons, December 20, 1989.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 416 mg/L May 31; minimum daily mean, 9 mg/L December 20.
SEDIMENT LOADS: Maximum daily, 2,350 tons, May 22; minimum daily, .23 tons, December 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
16...	1430	80513	80513	3.06	25	20.0	42	2.8	94
NOV									
07...	0815	80513	80513	2.85	15	15.5	31	1.2	99
20...	1100	80513	80513	3.01	13	11.5	--	--	--
DEC									
13...	1045	80513	80513	3.00	7.3	4.0	13	0.26	91
20...	0915	80513	80513	3.04	10	3.0	11	0.30	--
JAN									
17...	0930	80513	80513	3.54	--	10.0	74	--	88
18...	0930	80513	80513	3.53	--	9.0	86	--	86
19...	1000	80513	80513	3.67	--	8.0	81	--	85
19...	1600	80513	80513	4.53	--	8.0	150	--	87
19...	2000	80513	80513	5.08	--	7.0	132	--	93
20...	0800	80513	80513	6.47	--	7.0	74	--	88
20...	1500	80513	80513	7.57	--	7.0	128	--	89
21...	0800	80513	80513	8.41	--	7.0	153	--	86
21...	1600	80513	80513	8.95	--	7.0	430	--	77
22...	1000	80513	80513	9.65	--	7.0	147	--	95
23...	1000	80513	80513	9.89	--	8.0	145	--	93
24...	1130	80513	80513	10.07	--	9.0	163	--	94
25...	0900	80513	80513	10.18	3230	7.0	114	994	--
25...	1500	80513	80513	10.18	--	7.0	121	--	91
26...	0900	80513	80513	10.24	--	6.0	117	--	94
27...	0900	80513	80513	10.26	--	7.0	122	--	93
28...	0800	80513	80513	10.30	--	6.0	136	--	93
29...	0930	80513	80513	10.38	--	6.0	100	--	92
30...	0915	80513	80513	10.41	3750	5.5	124	1260	94
30...	0930	80513	80513	10.41	--	6.0	105	--	87
31...	1000	80513	80513	10.23	--	6.0	106	--	93

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
FEB									
01...	0930	80513	80513	10.01	--	7.0	116	--	95
02...	1000	80513	80513	10.02	--	9.0	115	--	93
03...	0830	80513	80513	10.42	--	9.0	105	--	94
04...	0800	80513	80513	10.53	--	9.0	131	--	93
05...	1330	80513	80513	10.59	--	9.0	121	--	97
12...	1000	80513	80513	10.77	4720	10.0	83	1060	94
20...	1315	80513	80513	10.87	5020	10.0	112	1520	--
MAR									
21...	1115	80513	80513	--	--	13.0	165	--	--
APR									
18...	0810	80513	80020	--	1100	13.5	118	350	97
18...	1300	80513	80513	--	--	12.5	122	--	--
24...	1130	80513	80513	10.16	--	20.5	193	--	--
MAY									
22...	1230	80513	80513	--	--	19.0	276	--	--
JUN									
26...	0915	80513	80020	--	396	25.0	162	173	98
29...	1145	80513	80513	--	--	26.0	144	--	--
JUL									
26...	1630	80513	80513	5.87	--	26.5	73	--	--
AUG									
28...	0830	80513	80020	--	264	28.0	82	58	76
29...	0900	80513	80513	6.00	--	27.0	69	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT										
16.	1430	0.21	--	--	--	755	5.2	--	--	--
NOV										
07.	0815	--	265	7.1	2.2	754	3.6	36	K200	540
20.	1100	0.24	275	7.3	--	759	5.8	53	--	--
DEC										
13.	1045	--	280	7.6	<0.3	760	8.5	65	170	250
20.	0915	--	283	7.6	--	768	10.4	77	--	--
JAN										
25.	0900	0.09	99	6.6	--	757	9.4	78	--	--
30.	0915	0.09	102	6.9	--	754	10.1	81	--	--

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
NOV									
07.	0815	100	27	8.1	9.9	17	0.4	6.2	110
DEC									
13.	1045	120	34	9.1	11	16	0.4	3.4	129

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NOV									
07.	0815	10	9.7	0.10	137	5.45	0.19	0.010	<0.100
DEC									
13.	1045	6.0	6.5	0.10	148	2.91	0.20	<0.010	<0.100

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BORON, DISSOLVED (UG/L AS B) (01020)
NOV 07.	0815	0.080	0.070	0.52	0.60	0.170	0.050	0.060	<10
DEC 13.	1045	<0.010	0.010	--	0.40	0.130	0.030	0.030	10

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB 12...	1000	--	--	--	--	70	7.6	3.1	761	8.4
20...	1315	--	--	--	0.06	57	6.6	--	768	9.4
APR 18...	0810	--	--	--	--	71	6.9	2.8	766	7.3
24...	1130	94	95	100	--	--	--	--	--	--
JUN 26...	0915	--	--	--	--	134	7.1	1.7	760	4.8
AUG 28...	0830	--	--	--	--	382	7.5	1.9	775	4.9

DATE	TIME	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
FEB 12...	1000	74	220	3600	18	4.4	1.8	4.9	34	0.5
20...	1315	83	--	--	--	--	--	--	--	--
APR 18...	0810	70	1200	K8500	23	5.8	2.1	3.0	20	0.3
JUN 26...	0915	58	930	2200	69	17	6.5	9.7	22	0.5
AUG 28...	0830	62	K8200	460	160	42	14	19	20	0.6

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
FEB 12...	1000	1.7	10	7.0	3.5	0.10	30	376	0.04	--
APR 18...	0810	1.8	28	3.7	1.5	0.10	36	106	0.05	--
JUN 26...	0915	3.4	65	17	7.4	0.10	102	109	0.14	--
AUG 28...	0830	2.5	178	12	8.2	0.40	207	148	0.28	0.490

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
FEB 12...	1000	<0.010	<0.100	0.110	0.020	0.99	1.1	0.190	0.040
APR 18...	0810	<0.010	0.200	0.090	0.030	0.91	1.0	0.220	0.040
JUN 26...	0915	<0.010	0.500	0.050	0.020	0.85	0.90	0.140	0.060
AUG 28...	0830	0.010	0.500	0.080	0.030	0.52	0.60	0.200	0.090

DATE	TIME	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BORON, DISSOLVED (UG/L AS B) (01020)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
FEB 12...	1000	0.030	20	--	--	--	--	--	--
APR 18...	0810	0.040	<10	8700	2	<1	9	2	9
JUN 26...	0915	0.020	20	--	--	--	--	--	--
AUG 28...	0830	0.060	40	--	--	--	--	--	--

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
APR 18...	0810	7600	6	190	<1	0.10	6	<1	30

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	167	68	31	38	69	7.1	21	26	1.5
2	146	66	26	24	70	4.5	24	24	1.6
3	124	62	21	19	61	3.1	38	25	2.6
4	103	62	17	16	55	2.4	30	29	2.3
5	88	61	14	15	53	2.1	24	29	1.9
6	76	54	11	13	54	1.9	19	26	1.3
7	72	55	11	14	54	2.0	15	24	.97
8	70	54	10	16	52	2.2	13	23	.81
9	75	56	11	e17	42	1.9	12	22	.71
10	70	55	10	16	36	1.6	11	24	.71
11	58	52	8.1	15	35	1.4	9.3	21	.53
12	47	54	6.9	16	38	1.6	7.2	18	.35
13	38	47	4.8	18	34	1.7	7.3	19	.37
14	29	43	3.4	55	35	5.2	8.1	17	.37
15	24	44	2.9	60	28	4.5	11	15	.45
16	25	43	2.9	47	26	3.3	10	14	.38
17	31	49	4.1	36	28	2.7	8.4	15	.34
18	34	51	4.7	25	39	2.6	8.4	14	.32
19	93	53	13	16	39	1.7	8.7	12	.28
20	196	76	40	12	41	1.3	9.5	9	.23
21	469	93	118	11	43	1.3	9.5	10	.26
22	899	93	226	12	46	1.5	9.5	11	.28
23	1140	80	246	14	48	1.8	9.5	11	.28
24	1010	72	196	16	42	1.8	9.5	11	.28
25	758	71	145	18	39	1.9	9.5	10	.26
26	548	71	105	23	38	2.4	9.7	11	.29
27	384	78	81	27	41	3.0	10	13	.35
28	266	75	54	25	38	2.6	16	15	.65
29	171	69	32	22	31	1.8	17	18	.83
30	106	68	19	21	27	1.5	13	18	.63
31	65	70	12	---	---	---	16	19	.82
TOTAL	7382	---	1486.8	677	---	74.4	424.1	---	22.95

e Estimated

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	17	20	.92	2770	121	905	3440	129	1200
2	21	18	1.0	2960	123	983	3130	125	1060
3	87	24	5.6	3860	128	1330	2690	126	915
4	138	62	23	4270	136	1570	2270	122	748
5	165	77	34	4220	138	1570	2020	119	649
6	188	87	44	4140	136	1520	1880	120	609
7	196	94	50	4000	107	1160	1870	121	611
8	188	79	40	3850	91	946	2780	140	1050
9	178	58	28	3860	90	938	3990	143	1540
10	176	59	28	4230	105	1200	4040	140	1530
11	172	69	32	4620	113	1410	3710	139	1390
12	154	68	28	4620	122	1520	3400	151	1390
13	128	61	21	4370	126	1490	3160	154	1310
14	100	62	17	4100	133	1470	3040	144	1180
15	77	58	12	4340	122	1430	3020	131	1070
16	59	69	11	5370	121	1750	2840	126	966
17	46	81	10	6020	113	1840	2320	126	789
18	46	89	11	6080	125	2050	1880	139	706
19	70	94	18	5810	142	2230	1690	157	716
20	482	132	172	5040	136	1850	1580	165	704
21	1460	170	670	4560	133	1640	1410	165	628
22	2210	201	1200	4520	123	1500	1210	169	552
23	2590	204	1430	4480	114	1380	1000	185	499
24	3010	168	1370	4390	100	1190	860	179	416
25	3240	132	1150	4200	97	1100	741	164	328
26	3310	123	1100	4060	104	1140	632	151	258
27	3350	130	1180	3830	140	1450	534	134	193
28	3410	132	1220	3600	142	1380	443	131	157
29	3690	107	1070	---	---	---	411	129	143
30	3720	108	1080	---	---	---	663	128	229
31	3320	112	1000	---	---	---	1490	110	443
TOTAL	35998	---	13056.52	122170	---	39942	64144	---	23979

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	1970	105	558	1280	148	511	1170	395	1250
2	2190	87	514	1540	144	599	1470	346	1370
3	2440	94	619	2380	121	778	1510	337	1370
4	2580	91	634	2770	108	808	1360	313	1150
5	2650	77	551	2760	110	820	1170	304	960
6	2680	77	557	2610	132	930	987	317	845
7	2670	63	454	2580	133	926	834	353	795
8	2600	66	463	2580	133	926	669	353	638
9	2440	63	415	2550	134	923	525	390	553
10	2230	59	355	2350	131	831	392	395	418
11	1950	61	321	1920	135	700	287	388	301
12	1630	63	277	1510	128	522	194	372	195
13	1330	60	215	1200	131	424	125	341	115
14	1100	61	181	949	129	331	89	311	75
15	940	82	208	747	135	272	68	291	53
16	856	100	231	586	163	258	55	269	40
17	840	104	236	458	173	214	49	265	35
18	1120	118	357	414	203	227	43	223	26
19	1320	129	460	414	222	248	35	219	21
20	1380	135	503	595	248	398	32	226	20
21	1970	148	787	2060	247	1370	31	229	19
22	2780	163	1220	3230	269	2350	59	226	36
23	3060	172	1420	3040	284	2330	143	240	93
24	3110	157	1320	2370	313	2000	181	232	113
25	3110	148	1240	1840	367	1820	256	201	139
26	3030	139	1140	1520	379	1560	429	172	199
27	2650	134	959	1320	339	1210	627	172	291
28	2270	123	754	1160	293	918	676	138	252
29	1910	120	619	1000	392	1060	616	150	249
30	1590	132	567	893	404	974	499	165	222
31	---	---	---	916	416	1030	---	---	---
TOTAL	62396	---	18135	51542	---	28268	14581	---	11843

07077500 CACHE RIVER AT PATTERSON, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	388	165	173	297	65	52	330	70	62
2	297	164	132	274	68	50	344	70	65
3	212	164	94	254	64	44	377	69	70
4	144	153	59	246	63	42	424	65	74
5	112	135	41	243	67	44	447	63	76
6	98	110	29	242	66	43	429	63	73
7	80	101	22	240	63	41	392	67	71
8	66	97	17	284	69	53	378	70	71
9	63	94	16	318	63	54	413	76	85
10	64	92	16	380	58	60	457	68	84
11	68	93	17	422	55	63	457	64	79
12	96	92	24	424	58	66	466	64	81
13	133	90	32	411	65	72	516	60	84
14	154	95	40	396	63	67	552	65	97
15	159	94	40	389	62	65	563	75	114
16	185	93	46	427	60	69	558	74	111
17	267	72	52	492	57	76	546	71	105
18	352	72	68	485	57	75	522	71	100
19	387	82	86	482	60	78	491	72	95
20	374	83	84	495	69	92	456	74	91
21	324	84	73	537	69	100	423	70	80
22	267	80	58	581	62	97	411	71	79
23	226	81	49	578	69	108	404	72	79
24	202	80	44	549	75	111	375	75	76
25	203	68	37	485	79	103	332	72	65
26	239	70	45	398	76	82	289	67	52
27	296	65	52	342	74	68	275	73	54
28	344	59	55	304	75	62	300	85	69
29	361	58	57	267	71	51	326	101	89
30	350	62	59	278	70	53	320	91	79
31	322	64	56	302	71	58	---	---	---
TOTAL	6833	---	1673	11822	---	2099	12573	---	2410
YEAR	390542.1		142989.67						

07077555 CACHE RIVER NEAR COTTON PLANT, ARKANSAS

LOCATION.--Lat 35°02'07", long 91°19'19", in SE ¼ SW ¼ sec.21, T.5 N.,R.3 W., Woodruff County, Hydrologic Unit 08020302, on left bank on downstream side of bridge on county road, 1.4 mi upstream from Roaring Slough, and 4.2 mi northwest of Cotton Plant.

DRAINAGE AREA.--1,172 mi², of which an estimated 20 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1987 to current year.

REVISED RECORDS.--WRD ARKANSAS 1989: 1988(M).

GAGE.--Water-stage recorder. Datum of gage is 164.17 ft above National Geodetic Vertical Datum of 1929. Nonrecording gage Oct. 10, 1989 to Sept. 27, 1990 at same site and datum.

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,950 ft³/s Dec. 28, 1987, gage height, 20.22 ft, from flood-marks; minimum daily, 25 ft³/s Oct. 22-24, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,580 ft³/s Feb. 20, gage height, 19.32 ft; minimum daily, 37 ft³/s Dec. 26-28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	271	50	79	3350	4930	1720	3000	1800	547	324	264
2	367	164	46	72	3550	4830	1770	2940	1660	535	318	270
3	290	113	45	63	3980	4510	1900	2900	1570	489	306	281
4	227	90	42	78	4350	4290	2070	2940	1550	428	295	298
5	185	77	44	101	4460	3970	2260	3060	1560	341	278	308
6	158	72	45	129	4740	3670	2490	3140	1560	273	260	321
7	156	82	46	145	4780	3570	2690	3180	1540	219	247	e340
8	149	120	46	162	4620	3820	2810	3190	1480	196	242	e350
9	129	145	46	178	4550	4240	2880	3190	1350	182	240	e370
10	118	126	46	181	4600	4640	2940	3150	1190	172	247	e380
11	116	90	46	181	4640	4980	2960	3130	1040	169	262	384
12	110	79	46	178	4690	4930	2900	3140	883	e170	286	400
13	103	71	46	169	4810	4760	2800	3120	717	170	333	e430
14	93	63	46	159	4950	4620	2630	2920	573	180	381	e460
15	79	67	45	145	5330	4510	2450	2630	428	188	388	497
16	82	75	44	128	5870	4300	2280	2380	300	195	390	519
17	94	84	42	131	6040	4080	2130	2180	248	204	390	512
18	96	79	42	151	6300	3890	2040	1960	216	216	390	507
19	90	75	43	285	6420	3570	1920	1800	203	237	e390	506
20	91	69	44	582	6550	3330	1870	1730	192	268	404	495
21	103	67	43	864	6480	3130	1930	1690	184	300	414	495
22	142	71	43	930	6360	2960	2040	1690	198	321	440	481
23	204	68	43	977	6180	2740	2190	1750	218	321	448	448
24	340	63	43	1100	5920	2420	2430	1960	210	306	465	429
25	491	57	40	1360	5650	2260	2690	2270	229	282	468	e410
26	613	54	37	1660	5380	2130	2890	2430	246	255	460	385
27	675	54	37	1940	5280	2020	3000	2430	278	241	432	359
28	688	54	37	2240	5050	1910	3140	2340	336	238	390	333
29	648	53	45	2600	---	1830	3180	2220	425	255	332	307
30	562	51	54	2940	---	1760	3110	2080	507	285	290	296
31	426	---	71	3170	---	1740	---	1930	---	321	272	---
TOTAL	8071	2604	1393	23078	144880	110340	74110	78470	22891	8504	10782	11835
MEAN	260	86.8	44.9	744	5174	3559	2470	2531	763	274	348	394
MAX	688	271	71	3170	6550	4980	3180	3190	1800	547	468	519
MIN	79	51	37	63	3350	1740	1720	1690	184	169	240	264
AC-FT	16010	5170	2760	45780	287400	218900	147000	155600	45400	16870	21390	23470
CFSM	.22	.07	.04	.64	4.41	3.04	2.11	2.16	.65	.23	.30	.34
IN.	.26	.08	.04	.73	4.60	3.50	2.35	2.49	.73	.27	.34	.38

CAL YR 1989 TOTAL 630931 MEAN 1729 MAX 8180 MIN 37 AC-FT 1251000 CFSM 1.47 IN. 20.03
WTR YR 1990 TOTAL 496958 MEAN 1362 MAX 6550 MIN 37 AC-FT 985700 CFSM 1.16 IN. 15.77

e Estimated

07077555 CACHE RIVER NEAR COTTON PLANT, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--April 1987 to current year.

COOPERATION.--Additional records were furnished by Ouachita Baptist University, Arkadelphia, Arkansas.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 597 mg/L April 16, 1987; minimum daily mean, 12 mg/L Decenber 11, 1989.
SEDIMENT LOADS: Maximum daily, 1,960 tons, December 27, 1987; minimum daily, 1.5 tons, December 11 and 16, 1989.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 397 mg/L, June 15; minimum daily mean, 12 mg/L December 11.
SEDIMENT LOADS: Maximum daily, 1,400 tons, February 23; minimum daily, 1.5 tons, December 11 and 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GAGE HEIGHT (FEET) (00065)	TEMPERATURE WATER (DEG C) (00010)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT								
17...	1315	80513	80513	4.79	20.0	97	52	14
NOV								
21...	1030	80513	80513	4.43	12.0	--	41	7.0
DEC								
20...	1330	80513	80513	4.18	2.5	--	16	2.0
JAN								
17...	0900	80513	80513	5.14	11.5	88	78	--
18...	1100	80513	80513	5.22	12.0	94	71	--
19...	1300	80513	80513	5.50	10.0	85	66	--
20...	1000	80513	80513	8.22	11.0	95	148	--
21...	1400	80513	80513	10.30	9.0	94	61	--
22...	1100	80513	80513	10.46	11.0	77	62	--
23...	0800	80513	80513	10.62	8.5	71	56	--
24...	1130	80513	80513	11.44	9.0	86	71	--
25...	0730	80513	80513	12.38	8.0	49	271	--
25...	1230	80513	80513	12.57	8.0	--	93	341
26...	1000	80513	80513	13.72	8.5	18	1020	--
26...	1700	80513	80513	14.10	9.0	74	121	--
27...	1100	80513	80513	14.80	9.0	79	106	--
27...	1700	80513	80513	15.20	8.5	82	120	--
28...	1000	80513	80513	15.78	8.0	77	129	--
29...	1700	80513	80513	16.77	8.0	87	113	--
30...	0900	80513	80513	17.08	7.5	81	114	--
30...	1115	80513	80513	17.11	6.0	--	98	781
31...	0830	80513	80513	17.40	7.0	84	84	--
FEB								
01...	1000	80513	80513	17.66	9.0	82	84	--
02...	1100	80513	80513	17.90	10.0	89	93	--
03...	0900	80513	80513	18.20	10.0	92	86	--
04...	1100	80513	80513	18.46	9.0	88	77	--
05...	0800	80513	80513	18.50	9.0	80	63	--
21...	0830	80513	80513	19.30	8.0	98	79	1320
MAR								
21...	1445	80513	80513	--	14.5	--	81	--
APR								
19...	1315	80513	80513	--	14.5	--	53	--
27...	1015	80513	80513	--	22.0	--	91	--
MAY								
23...	1115	80513	80513	--	18.0	--	124	--
JUN								
29...	1530	80513	80513	--	27.0	--	161	--
JUL								
26...	1200	80513	80513	5.75	26.0	--	75	--
AUG								
29...	1200	80513	80513	6.41	27.0	--	89	--

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)
NOV									
21...	1030	--	--	--	4	26	92	99	100
APR									
27...	1015	86	88	100	--	--	--	--	--

07077555 CACHE RIVER NEAR COTTON PLANT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	PH (STAND-ARD UNITS) (00400)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
OCT								
17...	1315	98	300	0.21	7.3	761	5.9	65
NOV								
21...	1030	63	283	0.30	7.5	761	8.2	76
DEC								
20...	1330	46	272	0.49	7.8	765	11.4	83
JAN								
25...	1230	1360	122	0.09	6.7	759	8.8	75
30...	1115	2950	98	0.09	6.7	755	8.8	71
FEB								
21...	0830	6180	75	0.09	6.6	765	7.7	65

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	446	177	213	271	84	61	50	18	2.4
2	367	164	163	164	81	36	46	16	2.0
3	290	169	132	113	76	23	45	15	1.8
4	227	162	99	90	62	15	42	16	1.8
5	185	164	82	77	54	11	44	15	1.8
6	158	147	63	72	70	14	45	23	2.8
7	156	149	63	82	76	17	46	25	3.1
8	149	139	56	120	76	25	46	21	2.6
9	129	121	42	145	77	30	46	19	2.4
10	118	109	35	126	70	24	46	13	1.6
11	116	98	31	90	57	14	46	12	1.5
12	110	95	28	79	54	12	46	13	1.6
13	103	90	25	71	52	10	46	13	1.6
14	93	69	17	63	49	8.3	46	14	1.7
15	79	64	14	67	48	8.7	45	16	1.9
16	82	60	13	75	47	9.5	44	13	1.5
17	94	54	14	84	42	9.5	42	14	1.6
18	96	57	15	79	27	5.8	42	15	1.7
19	90	51	12	75	28	5.7	43	14	1.6
20	91	48	12	69	43	8.0	44	15	1.8
21	103	50	14	67	39	7.1	43	20	2.3
22	142	63	24	71	32	6.1	43	18	2.1
23	204	93	51	68	24	4.4	43	15	1.7
24	340	110	101	63	21	3.6	43	20	2.3
25	491	113	150	57	32	4.9	40	18	1.9
26	613	95	157	54	35	5.1	37	16	1.6
27	675	91	166	54	36	5.2	37	16	1.6
28	688	92	171	54	37	5.4	37	19	1.9
29	648	90	157	53	28	4.0	45	33	4.0
30	562	84	127	51	21	2.9	54	41	6.0
31	426	87	100	---	---	---	71	25	4.8
TOTAL	8071	---	2347	2604	---	396.2	1393	---	69.0

07077555 CACHE RIVER NEAR COTTON PLANT, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	79	24	5.1	3350	77	696	4930	67	892
2	72	21	4.1	3550	79	757	4830	64	835
3	63	23	3.9	3980	71	763	4510	61	743
4	78	33	6.9	4350	61	716	4290	56	649
5	101	26	7.1	4460	51	614	3970	55	590
6	129	24	8.4	4740	52	665	3670	63	624
7	145	23	9.0	4780	54	697	3570	66	636
8	162	25	11	4620	58	723	3820	54	557
9	178	49	24	4550	47	577	4240	62	710
10	181	60	29	4600	43	534	4640	59	739
11	181	62	30	4640	43	539	4980	59	793
12	178	57	27	4690	36	456	4930	54	719
13	169	52	24	4810	39	506	4760	54	694
14	159	49	21	4950	38	508	4620	49	611
15	145	54	21	5330	38	547	4510	48	584
16	128	67	23	5870	35	555	4300	45	522
17	131	80	28	6040	34	554	4080	44	485
18	151	77	31	6300	33	561	3890	42	441
19	285	82	63	6420	49	849	3570	43	414
20	582	161	253	6550	61	1080	3330	41	369
21	864	87	203	6480	72	1260	3130	62	524
22	930	73	183	6360	80	1370	2960	122	975
23	977	68	179	6180	84	1400	2740	109	806
24	1100	103	306	5920	80	1280	2420	100	653
25	1360	241	885	5650	65	992	2260	105	641
26	1660	148	663	5380	76	1100	2130	132	759
27	1940	116	608	5280	73	1040	2020	131	714
28	2240	125	756	5050	64	873	1910	128	660
29	2600	113	793	---	---	---	1830	114	563
30	2940	101	802	---	---	---	1760	85	404
31	3170	79	676	---	---	---	1740	78	366
TOTAL	23078	---	6683.5	144880	---	22212	110340	---	19672

07077555 CACHE RIVER NEAR COTTON PLANT, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	1720	64	297	3000	101	818	1800	183	889
2	1770	69	330	2940	84	667	1660	217	973
3	1900	78	400	2900	56	438	1570	225	954
4	2070	71	397	2940	51	405	1550	239	1000
5	2260	62	378	3060	41	339	1560	251	1060
6	2490	67	450	3140	40	339	1560	232	977
7	2690	67	487	3180	42	361	1540	201	836
8	2810	52	395	3190	40	345	1480	243	971
9	2880	41	319	3190	56	482	1350	289	1050
10	2940	42	333	3150	70	595	1190	290	932
11	2960	54	432	3130	61	516	1040	305	856
12	2900	58	454	3140	64	543	883	354	844
13	2800	48	363	3120	60	505	717	395	765
14	2630	48	341	2920	60	473	573	395	611
15	2450	47	311	2630	68	483	428	397	459
16	2280	48	295	2380	76	488	300	339	275
17	2130	49	282	2180	81	477	248	274	183
18	2040	45	248	1960	86	455	216	254	148
19	1920	59	306	1800	91	442	203	244	134
20	1870	80	404	1730	121	565	192	235	122
21	1930	128	667	1690	130	593	184	215	107
22	2040	114	628	1690	126	575	198	243	130
23	2190	93	550	1750	132	624	218	242	142
24	2430	86	564	1960	187	990	210	180	102
25	2690	88	639	2270	194	1190	229	193	119
26	2890	101	788	2430	157	1030	246	212	141
27	3000	114	923	2430	150	984	278	225	169
28	3140	106	899	2340	196	1240	336	224	203
29	3180	90	773	2220	253	1520	425	233	267
30	3110	85	714	2080	148	831	507	251	344
31	---	---	---	1930	168	875	---	---	---
TOTAL	74110	---	14367	78470	---	20188	22891	---	15763

07077555 CACHE RIVER NEAR COTTON PLANT, ARKANSAS--CONTINUED

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

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	547	242	357	324	94	82	264	171	122
2	535	246	355	318	94	81	270	129	94
3	489	233	308	306	92	76	281	118	90
4	428	203	235	295	84	67	298	109	88
5	341	202	186	278	83	62	308	102	85
6	273	175	129	260	90	63	321	103	89
7	219	152	90	247	93	62	e340	109	100
8	196	123	65	242	107	70	e350	111	105
9	182	112	55	240	90	58	e370	114	114
10	172	112	52	247	82	55	e380	119	122
11	169	123	56	262	88	62	384	123	128
12	e170	121	56	286	94	73	400	119	129
13	170	121	56	333	84	76	e430	117	136
14	180	105	51	381	95	98	e460	117	145
15	188	103	52	388	123	129	497	115	154
16	195	104	55	390	134	141	519	113	158
17	204	100	55	390	125	132	512	110	152
18	216	98	57	390	109	115	507	106	145
19	237	99	63	e390	110	116	506	101	138
20	268	99	72	404	114	124	495	102	136
21	300	91	74	414	117	131	495	96	128
22	321	94	81	440	112	133	481	97	126
23	321	86	75	448	103	125	448	104	126
24	306	84	69	465	90	113	429	103	119
25	282	77	59	468	100	126	e410	97	107
26	255	76	52	460	107	133	385	90	94
27	241	85	55	432	103	120	359	88	85
28	238	94	60	390	101	106	333	87	78
29	255	116	80	332	102	91	307	86	71
30	285	118	91	290	163	128	296	81	65
31	321	103	89	272	202	148	---	---	---
TOTAL	8504	---	3190	10782	---	3096	11835	---	3429
YEAR	496958		111412.7						

e Estimated

07077660 BAYOU DEVIEW NEAR GIBSON, ARKANSAS

LOCATION.--Lat 35°47'36", long 90°50'18", in SW ¼ SW ¼ sec.36, T.14 N., R.2 E., Craighead County, Hydrologic Unit 08020302, at bridge on State Highway 226, 1.8 mi northwest of Gibson.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1030	9827	9827	8.0	19.0	60	8.4	2.2	86
NOV									
14.	0830	9827	9827	7.6	17.0	30	7.4	3.3	80
DEC									
12.	0900	9827	9827	7.8	2.0	35	11.7	3.6	76
JAN									
09.	0900	9827	9827	7.7	7.0	60	10.5	3.9	78
FEB									
06.	0845	9827	9827	7.7	7.0	80	10.9	1.9	24
MAR									
13.	0845	9827	9827	7.5	17.0	60	9.6	2.5	24
APR									
17.	0932	9827	9827	7.3	10.0	1600	9.9	3.0	46
MAY									
08.	0930	9827	9827	7.6	20.0	50	8.2	1.6	20
JUN									
12.	0930	9827	9827	8.1	26.0	--	7.2	3.5	64
JUL									
17.	0900	9827	9827	7.5	26.0	--	7.5	2.5	40
AUG									
14.	0930	9827	9827	8.0	25.0	--	7.0	1.9	--
SEP									
11.	1045	9827	9827	7.8	25.0	--	6.5	2.4	130

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
10.	1030	29	40	288	33	2.50	<0.050	3.50
NOV								
14.	0830	23	--	227	17	1.80	<0.050	4.10
DEC								
12.	0900	23	20	202	18	2.10	<0.050	1.75
JAN								
09.	0900	28	24	334	37	2.60	0.530	2.20
FEB								
06.	0845	9.0	2.4	89	116	0.410	0.120	0.290
MAR								
13.	0845	8.0	5.1	69	35	0.430	<0.050	0.380
APR								
17.	0932	6.0	5.1	694	--	0.560	0.150	2.00
MAY								
08.	0930	9.0	5.2	109	37	0.500	0.060	0.470
JUN								
12.	0930	15	21	153	27	0.120	0.070	0.820
JUL								
17.	0900	10	7.7	--	44	0.290	0.090	0.410
AUG								
14.	0930	17	22	221	35	0.530	<0.050	0.790
SEP								
11.	1045	10	24	246	--	0.110	0.070	0.490

07077660 BAYOU DEVIEW NEAR GIBSON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1030	3.05	<1	--	16	<2	10	6.0
NOV								
14.	0830	3.28	<1	2	19	2	20	11
DEC								
12.	0900	1.62	<1	<1	<15	2	10	8.2
JAN								
09.	0900	2.08	--	--	--	--	--	12
FEB								
06.	0845	--	--	--	--	--	--	8.7
MAR								
13.	0845	0.230	--	--	--	--	--	8.7
APR								
17.	0932	0.350	--	--	--	--	--	43
MAY								
08.	0930	0.290	--	--	--	--	--	8.9
JUN								
12.	0930	0.660	--	--	--	--	--	8.2
JUL								
17.	0900	0.270	--	--	--	--	--	8.4
AUG								
14.	0930	0.620	--	--	--	--	--	7.9
SEP								
11.	1045	0.250	--	--	--	--	--	9.0

07077700 BAYOU DEVIEW AT MORTON, ARKANSAS

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 west of Morton, and at mile 39.6.

DRAINAGE AREA.--421 mi².

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV 07...	0930	80513	80513	24	200	7.1	14.0	3.4	33	4.4
DEC 13...	1015	80513	80513	16	218	7.5	4.0	9.4	72	1.4
FEB 12...	1100	80513	80513	2180	81	7.1	10.5	7.5	67	3.8
APR 18...	0700	80513	80020	988	78	6.8	13.5	8.2	78	4.4
JUN 26...	1010	80513	80020	359	134	6.9	24.5	3.1	37	3.5
AUG 28...	0800	80513	80020	51	465	7.7	28.0	5.3	68	3.6

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
NOV 07...	0930	754	380	590	65	16	6.1	9.3	22	0.5
DEC 13...	1015	760	10	22	71	18	6.3	11	22	0.6
FEB 12...	1100	761	420	K5800	24	6.2	2.0	5.4	31	0.5
APR 18...	0700	766	1500	K15000	23	5.8	2.0	4.4	27	0.4
JUN 26...	1010	760	330	710	63	16	5.5	8.8	22	0.5
AUG 28...	0800	758	K6300	K150	200	53	16	18	16	0.6

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
NOV 07...	0930	6.9	80	6.0	11	0.10	104	6.74	0.14	--
DEC 13...	1015	9.6	63	14	14	0.20	111	4.80	0.15	--
FEB 12...	1100	1.8	22	8.0	3.7	0.10	41	243	0.06	0.100
APR 18...	0700	2.2	23	5.7	3.3	0.20	39	103	0.05	--
JUN 26...	1010	3.4	55	23	8.4	0.20	101	97.9	0.14	0.430
AUG 28...	0800	2.5	201	29	13	0.70	254	35.0	0.35	0.180

07077700 BAYOU DEVIEW AT MORTON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
NOV 07...	0930	0.010	<0.100	<0.010	<0.010	--	0.60	0.100	0.170	0.170
DEC 13...	1015	0.020	<0.100	0.040	0.020	1.2	1.2	0.190	0.040	0.030
FEB 12...	1100	0.010	0.110	0.100	0.030	0.50	0.60	0.270	0.110	0.100
APR 18...	0700	<0.010	0.200	0.180	0.040	1.1	1.3	0.260	0.060	0.050
JUN 26...	1010	0.070	0.500	0.420	0.340	1.2	1.6	0.120	0.050	0.030
AUG 28...	0800	0.020	0.200	0.040	0.020	0.86	0.90	0.170	0.080	0.050

DATE	TIME	BORON, DISSOLVED (UG/L AS B) (01020)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)
NOV 07...	0930	20	--	--	--	--	--	--	--	--
DEC 13...	1015	40	--	--	--	--	--	--	--	--
FEB 12...	1100	30	--	--	--	--	--	--	--	--
APR 18...	0700	20	14000	2	<1	13	3	8	10000	8
JUN 26...	1010	20	--	--	--	--	--	--	--	--
AUG 28...	0800	40	--	--	--	--	--	--	--	--

DATE	TIME	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 07...	0930	--	--	--	--	--	--	37	2.4	90
DEC 13...	1015	--	--	--	--	--	--	33	1.4	87
FEB 12...	1100	--	--	--	--	--	--	126	742	93
APR 18...	0700	240	<1	0.10	7	<1	40	243	648	99
JUN 26...	1010	--	--	--	--	--	--	264	256	37
AUG 28...	0800	--	--	--	--	--	--	58	8.0	93

07077820 WHITE RIVER AT ST. CHARLES, ARKANSAS

LOCATION.--Lat 34°22'35", long 91°07'30", in SW ¼ NE ¼ 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 east of St. Charles.

DRAINAGE AREA.--25,809 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
02.	1345	9827	9827	8.3	22.0	--	8.9	1.8	160
31.	1345	9827	9827	8.5	20.0	5.8	9.3	1.2	140
DEC									
05.	1300	9827	9827	8.4	10.0	5.3	12.2	2.2	180
JAN									
16.	1245	9827	9827	8.3	9.0	15	13.0	3.6	160
FEB									
27.	1335	9827	9827	7.1	11.0	--	9.5	1.1	82
MAR									
13.	1200	9827	9827	7.4	19.0	--	6.5	2.0	32
APR									
10.	0945	9827	9827	7.8	15.0	20	8.6	1.4	90
MAY									
15.	1017	9827	9827	7.6	20.0	--	6.8	1.2	88
JUN									
05.	1210	9827	9827	7.6	23.0	--	6.5	0.7	100
JUL									
10.	0725	9827	9827	7.9	24.0	--	7.9	0.7	120
AUG									
07.	1045	9827	9827	8.3	22.0	--	8.9	0.8	130
SEP									
04.	1320	9827	9827	8.3	26.0	--	8.6	0.8	130

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
02.	1345	8.0	7.4	182	--	0.030	<0.050	0.110
31.	1345	--	--	339	9	--	<0.050	0.070
DEC								
05.	1300	10	6.4	187	20	<0.020	<0.050	0.080
JAN								
16.	1245	8.0	6.1	--	32	<0.020	<0.050	0.050
FEB								
27.	1335	7.0	3.9	125	44	--	<0.050	0.130
MAR								
13.	1200	7.0	5.3	101	34	0.200	0.160	0.230
APR								
10.	0945	5.0	3.6	99	14	0.030	<0.050	0.080
MAY								
15.	1017	5.0	2.7	0	--	--	0.260	0.130
JUN								
05.	1210	7.0	2.8	127	34	0.210	<0.050	0.120
JUL								
10.	0725	6.0	3.4	91	44	0.240	<0.050	0.080
AUG								
07.	1045	8.0	13	150	58	0.250	--	0.080
SEP								
04.	1320	8.0	5.9	151	49	0.270	--	0.060

07077820 WHITE RIVER AT ST. CHARLES, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1345	<0.030	--	<1	15	2	<10	--
31.	1345	0.030	<1	<1	<15	<2	<10	4.0
DEC								
05.	1300	<0.030	<1	<1	16	<2	<10	2.6
JAN								
16.	1245	<0.030	--	--	--	--	--	2.7
FEB								
27.	1335	0.040	--	--	--	--	--	4.1
MAR								
13.	1200	0.140	--	--	--	--	--	9.5
APR								
10.	0945	<0.030	--	--	--	--	--	5.8
MAY								
15.	1017	0.050	--	--	--	--	--	6.7
JUN								
05.	1210	0.060	--	--	--	--	--	4.9
JUL								
10.	0725	<0.030	--	--	--	--	--	2.6
AUG								
07.	1045	<0.030	--	--	--	--	--	4.0
SEP								
04.	1320	0.060	--	--	--	--	--	3.7

07077862 BOAT GUNWALE SLASH NEAR HOLLY GROVE, ARKANSAS

LOCATION.--Lat 36°34'29", long 91°08'45", in SE ¼ sec.30, T.1 S., R.1 W., Monroe County, Hydrologic Unit 08020303, at bridge on State Highway 146, 3.6 mi southeast of Holly Grove.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
02.	1500	9827	9827	7.2	24.0	--	4.9	1.4	66
31.	1500	9827	9827	7.9	16.0	30	8.3	1.2	150
DEC									
05.	1410	9827	9827	7.0	8.0	6.9	5.2	--	62
JAN									
16.	1345	9827	9827	7.2	12.0	7.5	5.7	2.9	24
FEB									
27.	1415	9827	9827	7.5	15.0	--	8.6	1.4	24
MAR									
13.	1310	9827	9827	7.2	20.0	--	6.2	1.7	38
APR									
10.	0900	9827	9827	7.5	16.0	25	6.7	2.0	16
MAY									
15.	0930	9827	9827	7.1	23.0	--	2.1	2.2	32
JUN									
05.	1230	9827	9827	7.1	22.0	--	2.1	1.5	36
JUL									
10.	0706	9827	9827	7.2	26.0	--	<0.1	4.6	80
AUG									
07.	1103	9827	9827	7.0	22.0	--	0	2.7	78
SEP									
04.	1255	9827	9827	7.2	27.0	--	0.5	3.4	90

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
02.	1500	5.0	8.0	112	--	<0.020	<0.050	0.120
31.	1500	--	--	374	40	--	<0.050	0.140
DEC								
05.	1410	16	5.7	120	7	<0.020	<0.050	0.530
JAN								
16.	1345	8.0	6.7	--	6	<0.020	<0.050	0.130
FEB								
27.	1415	4.0	3.6	61	6	--	<0.050	0.140
MAR								
13.	1310	6.0	4.9	91	33	0.190	0.110	0.230
APR								
10.	0900	4.0	2.7	61	12	0.020	<0.050	0.170
MAY								
15.	0930	3.0	2.2	--	--	0.040	0.070	0.300
JUN								
05.	1230	5.0	2.2	69	5	0.240	0.050	0.440
JUL								
10.	0706	2.0	2.6	63	13	<0.020	0.180	0.360
AUG								
07.	1103	1.0	14	125	12	0.020	--	0.250
SEP								
04.	1255	3.0	5.6	146	18	<0.020	--	0.240

07077862 BOAT GUNWALE SLASH NEAR HOLLY GROVE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1500	0.030	--	<1	<15	<2	<10	--
31.	1500	0.050	<1	<1	<15	<2	<10	4.8
DEC								
05.	1410	0.330	1	<1	21	2	<10	21
JAN								
16.	1345	0.030	--	--	--	--	--	10
FEB								
27.	1415	0.110	--	--	--	--	--	7.3
MAR								
13.	1310	0.120	--	--	--	--	--	6.0
APR								
10.	0900	0.070	--	--	--	--	--	7.3
MAY								
15.	0930	0.130	--	--	--	--	--	11
JUN								
05.	1230	0.310	--	--	--	--	--	13
JUL								
10.	0706	0.060	--	--	--	--	--	14
AUG								
07.	1103	<0.030	--	--	--	--	--	11
SEP								
04.	1255	0.100	--	--	--	--	--	9.6

07077950 BIG CREEK AT POPLAR GROVE, ARKANSAS

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 upstream from Crooked Creek, and 3.9 mi east of Marvel.

DRAINAGE AREA.--448 mi^2, includes that of Crooked Creek. Area at site used prior to September 30, 1972, 459 mi^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 since August 1954 at same site are contained in reports of U.S. Army Corps of Engineers.

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

GAGE.--Water-stage recorder. Datum of gage is 143.00 ft above National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 7.0 mi downstream at same datum. Prior to Feb. 6, 1978, auxiliary water-stage recorder at site 8.7 mi downstream at same datum. October 1970 to September 1972, the downstream site was used as the base gage. The auxiliary gage was removed Dec. 28, 1981.

REMARKS.--Records good, except for estimated daily discharges, Oct. 31 to Nov. 26, which are fair, and June 13 to July 16 and July 18-26, which are poor.

AVERAGE DISCHARGE.--20 years, 636 ft^3/s, 460,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft^3/s Apr. 23, 1973, gage height, 31.74 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1954, 31.74 ft Apr. 23, 1973, discharge, 5,910 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,420 ft^3/s Feb. 5, 10, gage height, 30.79 ft; minimum, 2.3 ft^3/s Dec. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	e32	2.4	82	1520	1120	1240	1250	1660	e95	69	42
2	518	e30	2.5	33	2570	1180	1120	1390	1440	e70	71	42
3	459	e28	3.3	22	3660	1060	1020	1670	1510	e65	85	43
4	403	e27	3.3	185	4320	921	963	1690	1470	e60	88	45
5	388	e26	3.2	265	4410	816	929	1590	1160	e60	87	44
6	388	e24	3.7	247	4380	727	1110	1430	920	e70	84	41
7	393	e23	5.0	246	4260	716	1320	1300	738	e80	76	39
8	391	e22	4.6	252	4120	1480	1340	1180	579	e90	65	39
9	383	e21	4.5	249	3980	2130	1290	1090	486	e85	53	43
10	370	e20	4.4	242	4350	2430	1240	1010	666	e75	44	42
11	349	e19	4.6	229	4130	2560	1200	940	393	e70	38	40
12	319	e18	4.6	204	3880	2630	1130	886	143	e65	38	48
13	277	e17	4.6	170	3650	2640	1070	863	e95	e90	47	123
14	224	e16	4.8	134	3440	2590	1010	808	e75	e120	78	246
15	163	e15	4.8	104	3260	3250	954	729	e85	e120	92	298
16	127	e14	4.6	83	3050	3280	880	635	e105	e115	93	326
17	247	e14	4.1	78	2840	3070	832	530	e110	105	100	341
18	232	e13	4.3	164	2630	2850	864	414	e100	e85	122	347
19	161	e12	5.1	184	2410	2660	786	282	e85	e70	146	351
20	106	e11	5.2	211	2170	2450	690	687	e70	e60	163	357
21	70	e10	5.0	218	1940	2230	722	1360	e60	e65	166	376
22	50	e9.5	5.0	212	2110	2000	769	1710	e45	e70	158	406
23	46	e9.0	5.0	260	2090	1790	758	1950	e45	e70	139	424
24	44	e8.5	5.0	340	1860	1600	761	2210	e55	e60	119	435
25	42	e7.5	5.0	427	1620	1400	773	2430	e70	e45	101	442
26	40	e6.0	4.8	492	1400	1240	789	2510	e90	e40	85	437
27	39	5.7	5.1	550	1220	1090	832	2470	e120	35	73	423
28	37	4.1	5.3	608	1080	995	1170	2340	e150	36	59	399
29	36	3.1	6.3	1040	---	1060	1420	2150	e140	41	47	362
30	35	2.6	13	1370	---	1210	1350	1950	e130	43	41	307
31	e33	---	92	1450	---	1320	---	1840	---	46	40	---
TOTAL	6731	468.0	235.1	10351	82350	56495	30332	43294	12795	2201	2667	6908
MEAN	217	15.6	7.58	334	2941	1822	1011	1397	426	71.0	86.0	230
MAX	518	32	92	1450	4410	3280	1420	2510	1660	120	166	442
MIN	33	2.6	2.4	22	1080	716	690	282	45	35	38	39
AC-FT	13350	928	466	20530	163300	112100	60160	85870	25380	4370	5290	13700

CAL YR 1989 TOTAL 311973.1 MEAN 855 MAX 4680 MIN 2.4 AC-FT 618800
WTR YR 1990 TOTAL 254827.1 MEAN 698 MAX 4410 MIN 2.4 AC-FT 505400

e Estimated

07077980 PRAIRIE CYPRESS CREEK NEAR CROSS ROADS, ARKANSAS

LOCATION.--Lat 34°26'00", long 91°03'11", in SW ¼ NW ¼ sec.18, T.3 S., R.1 E., Monroe County, Hydrologic Unit 08020303, at bridge on State Highway 1, 1.0 mi northeast of Cross Roads.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
02.	1420	9827	9827	7.3	24.0	--	4.9	1.4	68
31.	1420	9827	9827	7.9	16.0	30	8.2	1.1	150
DEC									
05.	1335	9827	9827	7.1	7.0	6.8	5.3	4.2	60
JAN									
16.	1309	9827	9827	7.4	12.0	75	5.8	2.9	24
FEB									
27.	1355	9827	9827	7.5	15.0	--	5.7	1.3	22
MAR									
13.	1220	9827	9827	7.2	20.0	--	6.7	2.2	32
APR									
10.	0930	9827	9827	7.5	15.0	6.8	5.8	1.3	20
MAY									
15.	1000	9827	9827	7.1	20.0	--	0.2	3.1	40
JUN									
05.	1250	9827	9827	7.4	23.0	--	3.3	1.4	28
JUL									
10.	0640	9827	9827	7.4	26.0	--	2.2	1.7	98
AUG									
07.	1128	9827	9827	7.4	23.0	--	2.0	1.5	70
SEP									
04.	1232	9827	9827	7.6	27.0	--	3.1	1.3	150

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
02.	1420	5.0	7.7	111	--	<0.020	<0.050	0.110
31.	1420	--	--	376	39	--	<0.050	0.130
DEC								
05.	1335	15	5.2	126	6	<0.020	<0.050	0.520
JAN								
16.	1309	8.0	5.9	--	5	<0.020	<0.050	0.120
FEB								
27.	1355	3.0	2.7	51	2	--	<0.050	0.120
MAR								
13.	1220	6.0	5.2	88	36	0.210	0.170	0.240
APR								
10.	0930	4.0	2.5	53	5	<0.020	<0.050	0.210
MAY								
15.	1000	3.0	2.5	--	--	0.040	0.090	0.300
JUN								
05.	1250	5.0	2.1	70	10	0.070	0.050	0.220
JUL								
10.	0640	4.0	4.0	63	7	0.070	0.130	0.250
AUG								
07.	1128	4.0	14	150	4	0.020	--	0.100
SEP								
04.	1232	5.0	9.2	197	6	<0.020	--	0.140

07077980 PRAIRIE CYPRESS CREEK NEAR CROSS ROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1420	0.030	--	<1	<15	<2	<10	--
31.	1420	0.050	<1	<1	<15	<2	<10	4.5
DEC								
05.	1335	0.320	1	<1	16	<2	<10	21
JAN								
16.	1309	0.030	--	--	--	--	--	9.9
FEB								
27.	1355	0.050	--	--	--	--	--	9.2
MAR								
13.	1220	0.140	--	--	--	--	--	9.2
APR								
10.	0930	0.090	--	--	--	--	--	11
MAY								
15.	1000	0.140	--	--	--	--	--	15
JUN								
05.	1250	0.120	--	--	--	--	--	11
JUL								
10.	0640	0.090	--	--	--	--	--	7.8
AUG								
07.	1128	<0.030	--	--	--	--	--	8.5
SEP								
04.	1232	0.100	--	--	--	--	--	6.8

07188800 MCKISIC CREEK TRIBUTARY NEAR BENTONVILLE, ARKANSAS

LOCATION.--Lat 36°24'26", long 94°12'46", in NW ¼ SE ¼ sec.18, T.20 N., R.30 W., Benton County, Hydrologic Unit 11070208, on unimproved road off U.S. Highway 71, 0.4 mi north of Bentonville city limits, and 2.0 mi downstream from Bella Vista Lake.

PERIOD OF RECORD.--November 1983 to current year. Previously published as "0718813 Little Sugar Creek Tributary near Bentonville, Ark."

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
24.	0930	9827	9827	7.5	18.0	3.0	6.2	0.1	150
DEC									
05.	1012	9827	9827	7.4	12.0	1.9	8.1	0.6	150
19.	1030	9827	9827	7.5	<5.0	5.0	9.0	1.3	140
JAN									
23.	0937	9827	9827	7.5	10.0	2.5	8.7	0.7	140
FEB									
27.	1257	9827	9827	7.7	12.0	3.5	8.2	0.8	130
MAR									
27.	0923	9827	9827	7.6	10.0	2.0	9.4	0.9	140
APR									
24.	0950	9827	9827	7.7	16.0	3.2	8.4	0.2	130
MAY									
08.	1006	9827	9827	7.4	15.0	2.4	8.6	0.4	130
JUN									
26.	0955	9827	9827	7.6	19.0	--	7.0	--	140
JUL									
31.	0910	9827	9827	7.5	21.0	--	7.0	1.8	--
AUG									
28.	0913	9827	9827	7.5	23.0	--	6.7	0.5	160
SEP									
25.	0950	9827	9827	7.6	19.0	--	5.7	0.1	130

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
24.	0930	59	66	124	10	13.0	<0.050	0.84	--
DEC									
05.	1012	65	--	--	16	15.1	--	1.0	8.30
19.	1030	60	59	408	19	15.3	<0.050	2.7	9.10
JAN									
23.	0937	44	27	278	6	8.90	<0.050	0.90	4.30
FEB									
27.	1257	38	30	--	7	9.80	<0.050	1.5	6.20
MAR									
27.	0923	28	25	254	4	5.70	<0.050	--	3.45
APR									
24.	0950	18	15	201	9	--	<0.050	0.82	1.95
MAY									
08.	1006	16	13	207	7	3.84	0.300	1.0	2.15
JUN									
26.	0955	25	19	240	--	6.75	<0.050	0.64	3.40
JUL									
31.	0910	57	44	351	12	11.3	--	0.66	--
AUG									
28.	0913	64	51	391	4	16.0	<0.050	1.0	5.30
SEP									
25.	0950	49	42	341	6	11.7	<0.050	--	6.25

07188800 MCKISIC CREEK TRIBUTARY NEAR BENTONVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	0930	6.50	<1	<1	23	<2	40	4.8
DEC								
05.	1012	--	--	<1	23	8	40	4.5
19.	1030	7.70	1	1	<15	--	50	4.9
JAN								
23.	0937	--	--	--	--	--	--	5.3
FEB								
27.	1257	--	--	--	--	--	--	3.7
MAR								
27.	0923	3.05	--	--	--	--	--	6.0
APR								
24.	0950	1.88	--	--	--	--	--	4.5
MAY								
08.	1006	1.91	--	--	--	--	--	2.0
JUN								
26.	0955	2.95	--	--	--	--	--	6.4
JUL								
31.	0910	3.80	--	--	--	--	--	5.2
AUG								
28.	0913	4.85	--	--	--	--	--	3.8
SEP								
25.	0950	5.55	--	--	--	--	--	5.2

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, ARKANSAS

LOCATION.--Lat 36°30'44", long 94°28'54", in NW ¼ NW ¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., Hydrologic Unit 11070208, at bridge on county road about 500 ft west of State Highway 59, 0.9 mi north of State line along Highway 59, 2.0 mi northwest of Sulphur Springs.

DRAINAGE AREA.--34.9 mi², at State line.

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
24.	1123	9827	9827	14	8.1	17.0	1.0	8.3	0.3
DEC									
05.	1057	9827	9827	--	8.3	7.5	1.5	12.7	0.4
19.	1127	9827	9827	--	8.2	1.0	3.5	14.2	0.9
JAN									
23.	1025	9827	9827	--	8.0	10.0	3.5	10.5	<0.1
FEB									
27.	1341	9827	9827	33	8.2	11.0	2.0	11.0	0.1
MAR									
27.	1006	9827	9827	78	8.2	10.0	2.0	11.3	0.1
APR									
24.	1035	9827	9827	124	8.2	16.0	2.5	10.1	0.3
MAY									
08.	1050	9827	9827	127	8.0	--	2.9	9.6	0.7
JUN									
26.	1050	9827	9827	55	7.9	19.0	--	8.1	--
JUL									
31.	1000	9827	9827	8.0	8.1	22.5	--	7.4	0.7
AUG									
28.	1014	9827	9827	1.5	8.1	26.0	--	5.8	--
SEP									
25.	1048	9827	9827	2.3	8.1	17.0	--	8.4	0.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
24.	1123	170	7.0	8.2	204	2	0.750	<0.050	--
DEC									
05.	1057	170	10	--	--	3	1.00	--	0.100
19.	1127	160	8.0	9.1	196	9	1.30	<0.050	0.060
JAN									
23.	1025	130	11	4.8	150	6	2.00	<0.050	0.060
FEB									
27.	1341	140	9.0	4.3	171	2	1.60	<0.050	0.090
MAR									
27.	1006	130	10	4.3	163	3	1.70	<0.050	0.050
APR									
24.	1035	130	9.0	3.2	148	5	--	<0.050	0.050
MAY									
08.	1050	120	6.0	4.4	161	5	1.40	0.080	0.050
JUN									
26.	1050	140	9.0	4.5	168	--	1.20	<0.050	0.110
JUL									
31.	1000	--	5.0	7.5	192	3	1.40	--	0.080
AUG									
28.	1014	150	6.0	8.6	177	2	1.20	<0.050	0.060
SEP									
25.	1048	160	8.0	9.2	202	2	1.50	<0.050	0.100

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1123	0.050	1	--	<15	11	<10	6.1
DEC								
05.	1057	--	--	2	<15	9	60	1.6
19.	1127	0.050	<1	1	16	--	<10	3.5
JAN								
23.	1025	--	--	--	--	--	--	1.5
FEB								
27.	1341	--	--	--	--	--	--	1.9
MAR								
27.	1006	0.060	--	--	--	--	--	3.8
APR								
24.	1035	<0.030	--	--	--	--	--	3.6
MAY								
08.	1050	0.030	--	--	--	--	--	3.2
JUN								
26.	1050	0.030	--	--	--	--	--	4.0
JUL								
31.	1000	0.030	--	--	--	--	--	5.6
AUG								
28.	1014	0.030	--	--	--	--	--	1.7
SEP								
25.	1048	0.040	--	--	--	--	--	5.2

07191179 SPAVINAW CREEK NEAR CHEROKEE CITY, ARKANSAS

LOCATION.--Lat 36°20'31", long 94°35'15", in SW ¼ NE ¼ sec.10, T.19 N., R.34 W., Benton County, Hydrologic Unit 11070209, at bridge on State Highway 99, 3.0 mi north of Cherokee City.

DRAINAGE AREA.--104 mi², at State line.

PERIOD OF RECORD.--October 1968 to January 1972, October 1978 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
24.	1200	9827	9827	14	8.1	18.0	1.0	9.2	--
DEC									
05.	1139	9827	9827	14	8.2	10.0	1.2	11.2	0.3
19.	1213	9827	9827	14	8.2	4.0	2.5	--	0.9
JAN									
23.	1103	9827	9827	144	8.0	11.0	2.0	10.4	<0.1
FEB									
27.	1419	9827	9827	104	8.2	11.0	1.8	10.9	0.1
MAR									
27.	1045	9827	9827	144	8.0	11.0	1.8	10.3	0.7
APR									
24.	1115	9827	9827	405	8.1	16.0	2.6	9.9	0.1
MAY									
08.	1132	9827	9827	378	7.9	16.0	4.1	8.9	0.2
JUN									
26.	1140	9827	9827	153	7.9	19.0	--	8.8	--
JUL									
31.	1037	9827	9827	47	8.0	21.0	--	9.6	1.6
AUG									
28.	1053	9827	9827	28	8.1	24.0	--	8.1	0.1
SEP									
25.	1127	9827	9827	55	8.1	18.0	--	9.0	0.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
24.	1200	140	5.0	14	199	2	1.70	<0.050	--
DEC									
05.	1139	150	8.0	--	--	1	1.80	--	0.170
19.	1213	140	7.0	14	183	9	2.40	<0.050	0.150
JAN									
23.	1103	110	9.0	7.1	150	3	4.40	<0.050	0.120
FEB									
27.	1419	110	6.0	7.8	153	2	3.60	<0.050	0.160
MAR									
27.	1045	110	6.0	7.3	153	4	3.60	<0.050	0.110
APR									
24.	1115	98	6.0	5.4	126	4	--	<0.050	0.070
MAY									
08.	1132	90	5.0	5.8	128	6	2.80	<0.050	0.090
JUN									
26.	1140	110	6.0	7.8	145	--	2.20	0.070	0.090
JUL									
31.	1037	--	5.0	8.3	165	4	2.20	--	0.100
AUG									
28.	1053	130	5.0	11	164	2	2.30	<0.050	0.090
SEP									
25.	1127	130	5.0	11	180	3	2.70	<0.050	0.160

07191179 SPAVINAW CREEK NEAR CHEROKEE CITY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1200	0.110	<1	--	<15	12	<10	0.9
DEC								
05.	1139	--	--	<1	<15	7	40	1.2
19.	1213	0.110	<1	3	16	--	30	1.2
JAN								
23.	1103	--	--	--	--	--	--	1.4
FEB								
27.	1419	--	--	--	--	--	--	1.3
MAR								
27.	1045	0.080	--	--	--	--	--	3.9
APR								
24.	1115	<0.030	--	--	--	--	--	2.8
MAY								
08.	1132	0.060	--	--	--	--	--	2.7
JUN								
26.	1140	0.070	--	--	--	--	--	2.0
JUL								
31.	1037	0.040	--	--	--	--	--	1.8
AUG								
28.	1053	0.050	--	--	--	--	--	2.2
SEP								
25.	1127	0.080	--	--	--	--	--	1.5

07194800 ILLINOIS RIVER AT SAVOY, ARKANSAS

LOCATION.--Lat 36°06'39", long 94°20'39", in NW / SE / sec.36, T.17 n., R.32 W., Washington County, Hydrologic Unit 11110103, on left bank at downstream side of bridge on State Highway 16 at Savoy.

DRAINAGE AREA.--167 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
24.	1350	9827	9827	25	8.0	18.0	4.0	9.5	1.1
DEC									
05.	1316	9827	9827	--	8.1	8.0	3.4	13.6	0.7
19.	1400	9827	9827	--	8.0	1.0	4.5	14.6	2.5
JAN									
23.	1305	9827	9827	--	8.0	10.0	8.0	10.1	0.7
FEB									
27.	1555	9827	9827	103	8.1	11.0	8.0	10.3	--
MAR									
27.	1250	9827	9827	135	8.1	11.0	4.2	11.5	1.1
APR									
24.	1314	9827	9827	420	7.8	19.0	8.0	8.6	1.4
MAY									
08.	1323	9827	9827	630	7.8	18.0	20	9.0	1.0
JUN									
26.	1320	9827	9827	90	7.8	22.0	--	7.9	--
JUL									
31.	1235	9827	9827	37	8.0	25.0	--	8.7	4.3
AUG									
28.	1235	9827	9827	18	8.1	29.0	--	8.0	1.5
SEP									
25.	1315	9827	9827	27	8.0	20.0	--	9.0	0.9

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
24.	1350	150	6.0	9.5	191	9	1.00	<0.050	--
DEC									
05.	1316	150	7.0	--	--	4	1.00	--	0.090
19.	1400	160	7.0	11	185	8	1.60	<0.050	0.060
JAN									
23.	1305	86	14	5.5	123	10	2.80	0.050	0.100
FEB									
27.	1555	100	10	6.1	135	11	2.70	<0.050	0.120
MAR									
27.	1250	98	10	6.1	137	6	2.50	<0.050	0.080
APR									
24.	1314	84	9.0	4.5	103	23	--	<0.050	0.110
MAY									
08.	1323	66	6.0	4.2	103	25	1.90	<0.050	0.130
JUN									
26.	1320	110	8.0	5.4	150	--	2.30	<0.050	0.070
JUL									
31.	1235	--	6.0	5.6	125	20	0.980	--	0.170
AUG									
28.	1235	130	5.0	8.4	170	10	1.50	<0.050	0.080
SEP									
25.	1315	110	6.0	6.8	139	14	2.10	<0.050	0.180

07194800 ILLINOIS RIVER AT SAVOY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1350	0.040	<1	<1	<15	6	<10	3.4
DEC								
05.	1316	--	--	<1	28	10	<10	2.3
19.	1400	0.040	<1	1	<15	--	10	2.8
JAN								
23.	1305	--	--	--	--	--	--	4.2
FEB								
27.	1555	--	--	--	--	--	--	2.6
MAR								
27.	1250	0.030	--	--	--	--	--	4.1
APR								
24.	1314	<0.030	--	--	--	--	--	4.0
MAY								
08.	1323	<0.030	--	--	--	--	--	5.1
JUN								
26.	1320	0.030	--	--	--	--	--	2.9
JUL								
31.	1235	0.060	--	--	--	--	--	7.3
AUG								
28.	1235	<0.030	--	--	--	--	--	3.4
SEP								
25.	1315	0.090	--	--	--	--	--	4.5

07194810 CLEAR CREEK AT JOHNSON, ARKANSAS

LOCATION.--Lat 36°07'41", long 94°09'56", in NW ¼ SE ¼ sec.22, T.17N, R.30 W., Washington County, Hydrologic Unit 11110103, at bridge on county road 0.2 mi south of Johnson, just downstream from confluence with Mud Creek.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 24.	0910	9827	9827	7.8	15.0	4.5	--	3.8	150
NOV 28.	0905	9827	9827	8.1	6.0	1.9	10.4	2.4	140
DEC 19.	0855	9827	9827	8.1	0.0	2.0	13.3	0.7	150
JAN 23.	0730	9827	9827	7.8	9.0	4.0	10.1	2.0	130
FEB 27.	0825	9827	9827	8.0	11.0	5.4	10.6	1.8	120
MAR 27.	0825	9827	9827	8.2	18.0	2.9	11.8	2.1	120
APR 24.	0930	9827	9827	7.7	19.0	7.6	9.2	--	96
MAY 22.	0730	9827	9827	7.7	16.0	4.8	8.4	4.1	100
JUN 12.	0910	9827	9827	7.8	22.0	--	9.5	4.7	110
JUL 31.	0820	9827	9827	7.8	21.0	--	7.6	4.2	140
AUG 28.	0810	9827	9827	8.0	24.0	--	7.2	4.2	140
SEP 25.	0835	9827	9827	8.0	15.0	--	8.6	0.7	140

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 24.	0910	24	--	240	10	1.90	<0.050	0.80	0.130
NOV 28.	0905	--	26	246	5	--	<0.050	0.72	0.160
DEC 19.	0855	17	130	--	3	2.60	0.080	0.46	0.060
JAN 23.	0730	31	7.5	170	6	2.60	0.050	0.54	0.100
FEB 27.	0825	14	7.0	160	6	2.10	<0.050	0.70	0.130
MAR 27.	0825	32	--	156	4	2.80	--	0.50	0.150
APR 24.	0930	14	6.2	130	12	1.70	<0.050	1.1	0.190
MAY 22.	0730	13	5.4	150	7	1.50	<0.050	0.59	0.130
JUN 12.	0910	10	6.4	148	3	1.90	<0.050	0.83	0.070
JUL 31.	0820	13	13	200	5	3.10	--	0.81	0.090
AUG 28.	0810	20	16	--	5	2.90	0.060	0.68	0.100
SEP 25.	0835	14	9.1	186	5	2.20	<0.050	0.54	0.140

07194810 CLEAR CREEK AT JOHNSON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	0910	--	<1	<1	<15	<2	20	5.4
NOV								
28.	0905	0.080	<1	1	<15	<2	<10	3.3
DEC								
19.	0855	0.040	<1	<1	<15	<2	<10	2.4
JAN								
23.	0730	--	--	--	--	--	--	3.0
FEB								
27.	0825	--	--	--	--	--	--	3.1
MAR								
27.	0825	0.130	--	--	--	--	--	4.6
APR								
24.	0930	0.040	--	--	--	--	--	--
MAY								
22.	0730	0.040	--	--	--	--	--	4.1
JUN								
12.	0910	0.060	--	--	--	--	--	4.0
JUL								
31.	0820	0.060	--	--	--	--	--	--
AUG								
28.	0810	0.070	--	--	--	--	--	4.8
SEP								
25.	0835	<0.030	--	--	--	--	--	--

07195000 OSAGE CREEK NEAR ELM SPRINGS, ARKANSAS

LOCATION.--Lat 36°13'19", long 94°17'18", in SW ¼ NE ¼ sec.21, T.18 N., R.31 W., Benton County, Hydrologic Unit 11110103, on left bank 0.7 mi downstream from Little Osage Creek, and 3.2 mi northwest of Elm Springs.

DRAINAGE AREA.--130 mi^2.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
24.	0808	9827	9827	--	7.9	15.0	3.0	7.6	2.4
DEC									
05.	0921	9827	9827	--	8.0	5.0	1.5	11.5	1.4
19.	0918	9827	9827	--	8.0	1.0	2.5	13.3	4.0
JAN									
23.	0835	9827	9827	93	7.8	9.5	6.5	9.8	5.2
FEB									
27.	1105	9827	9827	72	8.0	12.0	5.1	10.1	--
MAR									
27.	0830	9827	9827	195	8.0	10.0	2.6	10.5	1.9
APR									
24.	0850	9827	9827	275	7.7	16.0	5.6	8.6	1.0
MAY									
08.	0913	9827	9827	390	7.6	15.0	5.1	9.0	1.9
JUN									
26.	0912	9827	9827	172	7.7	18.0	--	8.0	--
JUL									
31.	0824	9827	9827	95	7.9	22.0	--	7.7	3.0
AUG									
28.	0812	9827	9827	78	8.0	23.5	--	6.7	0.3
SEP									
25.	0854	9827	9827	--	8.0	16.0	--	8.4	0.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
24.	0808	140	24	29	248	7	2.30	<0.050	--
DEC									
05.	0921	140	31	--	--	4	2.20	--	1.38
19.	0918	130	22	24	232	4	2.90	0.650	0.920
JAN									
23.	0835	120	18	8.0	168	16	4.40	0.090	0.560
FEB									
27.	1105	120	15	13	181	9	3.90	<0.050	0.590
MAR									
27.	0830	110	11	11	172	4	4.10	<0.050	0.370
APR									
24.	0850	100	9.0	7.3	145	16	--	<0.050	0.360
MAY									
08.	0913	98	6.0	7.2	154	10	4.40	0.080	0.240
JUN									
26.	0912	110	8.0	8.6	164	--	3.10	<0.050	0.280
JUL									
31.	0824	--	16	16	203	4	3.20	--	0.400
AUG									
28.	0812	140	21	15	209	6	2.90	<0.050	0.400
SEP									
25.	0854	120	10	12	182	6	3.00	<0.050	0.630

07195000 OSAGE CREEK NEAR ELM SPRINGS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	0808	1.32	<1	<1	<15	<2	<10	3.9
DEC								
05.	0921	--	--	<1	<15	<2	10	2.6
19.	0918	0.830	<1	1	<15	--	<10	4.9
JAN								
23.	0835	--	--	--	--	--	--	2.8
FEB								
27.	1105	--	--	--	--	--	--	1.7
MAR								
27.	0830	0.260	--	--	--	--	--	3.6
APR								
24.	0850	0.220	--	--	--	--	--	4.9
MAY								
08.	0913	0.140	--	--	--	--	--	3.4
JUN								
26.	0912	0.240	--	--	--	--	--	4.0
JUL								
31.	0824	0.330	--	--	--	--	--	3.5
AUG								
28.	0812	0.320	--	--	--	--	--	3.1
SEP								
25.	0854	0.500	--	--	--	--	--	3.0

07195400 ILLINOIS RIVER NEAR SILOAM SPRINGS, ARKANSAS

LOCATION.--Lat 36°08'41", long 94°29'41", in SW ¼ SW ¼ sec.15, T.17 N., R.33 W., Benton County, Hydrologic Unit 11110103, on right bank at downstream side of bridge on State Highway 16, 8.2 mi downstream from Osage Creek, and 4.6 mi southeast of Siloam Springs.

DRAINAGE AREA.--509 mi².

PERIOD OF RECORD.--October 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)
OCT									
24.	1330	9827	9827	168	8.4	18.0	3.5	11.8	--
DEC									
05.	1155	9827	9827	--	8.3	11.0	1.6	13.5	0.5
19.	1137	9827	9827	--	8.2	2.0	3.0	14.7	0.9
JAN									
23.	1245	9827	9827	--	7.9	10.0	8.0	9.9	0.9
FEB									
27.	1535	9827	9827	540	8.1	11.0	9.6	9.8	--
MAR									
27.	1226	9827	9827	530	7.9	12.0	4.5	10.1	0.9
APR									
24.	1251	9827	9827	1650	7.8	18.5	20	8.0	0.6
MAY									
08.	1250	9827	9827	2000	7.7	--	20	8.3	0.5
JUN									
26.	1306	9827	9827	820	7.7	22.0	--	7.5	--
JUL									
31.	1213	9827	9827	310	8.0	25.0	--	7.9	1.4
AUG									
28.	1211	9827	9827	--	8.1	28.0	--	7.6	0.4
SEP									
25.	1253	9827	9827	360	7.9	20.0	--	8.2	0.2

DATE	TIME	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT									
24.	1330	130	13	19	207	7	1.20	<0.050	--
DEC									
05.	1155	130	18	--	--	2	1.60	--	0.480
19.	1137	130	15	19	195	6	2.00	<0.050	0.420
JAN									
23.	1245	96	14	6.6	138	11	3.50	0.050	0.160
FEB									
27.	1535	100	9.0	7.6	145	21	2.80	<0.050	0.230
MAR									
27.	1226	98	8.0	7.8	150	10	3.10	<0.050	0.170
APR									
24.	1251	88	11	5.4	119	36	--	0.760	0.200
MAY									
08.	1250	76	5.0	5.4	113	39	2.50	<0.050	0.170
JUN									
26.	1306	100	7.0	6.2	--	--	2.30	<0.050	0.140
JUL									
31.	1213	--	7.0	11	167	12	2.10	--	0.210
AUG									
28.	1211	120	11	12	176	10	1.80	<0.050	0.220
SEP									
25.	1253	110	7.0	9.7	166	12	2.40	<0.050	0.300

07195400 ILLINOIS RIVER NEAR SILOAM SPRINGS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
24.	1330	0.380	<1	<1	17	8	<10	3.3
DEC								
05.	1155	--	--	<1	20	17	<10	1.8
19.	1137	0.370	<1	1	<15	--	<10	3.9
JAN								
23.	1245	--	--	--	--	--	--	3.5
FEB								
27.	1535	--	--	--	--	--	--	1.7
MAR								
27.	1226	0.130	--	--	--	--	--	2.9
APR								
24.	1251	0.090	--	--	--	--	--	5.0
MAY								
08.	1250	0.080	--	--	--	--	--	3.7
JUN								
26.	1306	0.100	--	--	--	--	--	2.2
JUL								
31.	1213	0.130	--	--	--	--	--	5.3
AUG								
28.	1211	0.180	--	--	--	--	--	2.2
SEP								
25.	1253	0.200	--	--	--	--	--	4.3

07195800 FLINT CREEK AT SPRINGTOWN, ARKANSAS

LOCATION.--Lat 36 15'20", long 94 25'50", in NW ¼ sec.7, T.18 N., R.32 W., Benton County, Hydrologic Unit 11110103, on right bank 20 ft downstream from State Highway 12, 0.8 mi southwest of Springtown.

DRAINAGE AREA.--14.2 mi².

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 above National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--29 years, 14.6 ft³/s, 13.96 in/yr, 10,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft³/s June 8, 1974, gage height, 17.51 ft, from floodmarks, from rating curve extended above 260 ft³/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, Sept. 16, 1980, result of pumpage for irrigation upstream from gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 260 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 14	1830	971	8.17	June 21	1115	270	6.71
May 03	0300	*4,040	*a12.99				

a from floodmarks

Minimum discharge, 2.7 ft³/s Oct. 1, 2, 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	6.1	5.0	4.8	49	15	21	28	33	14	8.5	4.7
2	2.9	5.8	4.8	4.6	45	14	19	32	31	13	7.9	4.9
3	4.0	6.3	4.7	5.4	36	12	17	1010	27	12	7.8	5.1
4	4.7	6.6	4.2	7.1	29	9.0	15	436	24	11	9.7	5.2
5	3.8	6.4	4.6	5.1	24	7.1	15	322	21	9.1	8.5	5.4
6	4.9	5.6	4.1	4.7	21	8.5	14	221	19	8.9	7.6	5.3
7	5.6	6.2	4.3	4.4	18	30	13	147	17	8.8	7.3	5.1
8	4.0	5.1	4.7	4.1	16	29	12	114	16	9.5	7.4	5.6
9	4.5	5.4	4.7	3.9	15	22	12	93	15	8.7	6.6	6.2
10	4.6	5.6	4.7	4.4	13	17	16	73	15	8.4	6.4	6.5
11	4.3	5.4	4.5	4.0	11	26	15	59	16	8.4	8.2	8.2
12	4.0	5.1	4.3	3.5	9.1	50	14	54	15	8.4	8.6	8.1
13	4.9	5.1	4.2	3.4	7.8	43	13	39	14	8.5	12	8.2
14	4.0	5.8	4.3	3.5	7.2	334	14	27	13	8.2	7.3	8.2
15	4.9	5.5	4.1	3.6	29	198	14	21	13	7.7	6.7	7.5
16	5.3	5.1	3.7	5.8	29	95	14	23	13	7.0	6.7	7.3
17	5.3	5.1	4.6	24	24	75	21	22	12	7.5	6.2	7.5
18	5.4	5.2	4.6	9.7	19	62	21	22	11	8.5	5.8	8.7
19	5.2	5.4	4.7	61	15	54	22	22	11	8.4	5.8	10
20	5.0	5.4	4.5	40	12	48	45	22	11	8.6	7.8	19
21	5.6	5.2	4.4	25	10	42	61	32	59	9.4	6.9	32
22	6.1	6.5	4.2	18	11	37	49	30	84	11	6.2	12
23	5.7	5.4	4.2	15	9.9	33	42	28	42	10	6.3	7.5
24	6.0	5.1	4.2	14	8.1	31	36	25	32	9.7	6.3	6.2
25	6.0	5.2	4.8	12	6.7	27	32	23	27	9.3	6.1	5.7
26	6.9	5.1	5.7	10	5.5	24	42	91	24	8.6	5.7	5.3
27	6.4	5.5	5.3	8.2	4.4	22	41	121	21	7.5	5.4	4.7
28	6.3	5.1	5.0	7.0	8.5	28	41	61	19	7.4	5.2	4.6
29	5.9	5.1	6.0	6.2	---	27	35	44	18	7.4	5.0	4.6
30	12	5.1	5.7	5.5	---	26	30	43	16	8.1	5.1	9.5
31	8.4	---	5.3	5.0	---	23	---	38	---	7.8	4.7	---
TOTAL	165.7	165.5	144.1	332.9	493.2	1468.6	756	3323	689	280.8	215.7	238.8
MEAN	5.35	5.52	4.65	10.7	17.6	47.4	25.2	107	23.0	9.06	6.96	7.96
MAX	12	6.6	6.0	61	49	334	61	1010	84	14	12	32
MIN	2.9	5.1	3.7	3.4	4.4	7.1	12	21	11	7.0	4.7	4.6
AC-FT	329	328	286	660	978	2910	1500	6590	1370	557	428	474
CFSM	.38	.39	.33	.76	1.24	3.34	1.77	7.55	1.62	.64	.49	.56
IN.	.43	.43	.38	.87	1.29	3.85	1.98	8.71	1.80	.74	.57	.63

CAL YR 1989 TOTAL 4519.9 MEAN 12.4 MAX 197 MIN 2.9 AC-FT 8970 CFSM .87 IN. 11.84
WTR YR 1990 TOTAL 8273.3 MEAN 22.7 MAX 1010 MIN 2.9 AC-FT 16410 CFSM 1.60 IN. 21.67

07195855 FLINT CREEK NEAR WEST SILOAM SPRINGS, OKLAHOMA

LOCATION.--Lat 36°12'58", long 94°36'15", in NE ¼ NE ¼ sec.14, T.20 N., R.25 E., Delaware County, Hydrologic Unit 11110103, on left bank 180 ft downstream from county bridge, 2.5 mi from Arkansas-Oklahoma State line, northwest of West Siloam Springs, Okla.

DRAINAGE AREA.--59.8 mi^2.

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 958.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow is partially regulated by Lake Siloam Spring, 4.5 mi upstream, and sewage discharge into Flint Creek from city of Gentry.

AVERAGE DISCHARGE.--11 years, 46.2 ft^3/s, 33,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,650 ft^3/s May 3, 1990, gage height, 12.67 ft, from rating curve extended above 3,300 ft^3/s; minimum daily, 0.40 ft^3/s Aug. 7, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,650 ft^3/s May 3, gage height, 12.67 ft, from rating curve extended above 3,300 ft^3/s; minimum, 8.1 ft^3/s Oct. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	19	9.8	15	76	65	72	97	161	53	21	9.5
2	9.6	19	10	14	140	70	68	105	152	50	21	9.7
3	8.6	18	10	15	99	68	65	2370	141	47	21	9.9
4	8.5	18	11	17	81	61	58	486	131	44	23	9.6
5	8.5	18	11	17	67	55	55	307	121	42	23	9.6
6	10	17	11	17	59	53	53	242	111	41	21	9.6
7	15	17	12	17	51	92	49	205	101	38	18	9.8
8	12	16	13	17	46	109	48	181	97	38	18	9.5
9	17	16	14	17	43	99	47	162	92	36	17	9.6
10	19	16	14	17	42	85	59	148	87	33	15	9.6
11	20	16	14	17	39	93	56	142	83	33	18	9.6
12	20	16	14	17	35	217	54	152	81	33	20	9.6
13	20	16	14	17	31	181	52	138	73	33	23	9.6
14	20	16	14	17	33	1100	51	126	68	33	20	9.6
15	20	12	14	17	90	796	50	115	87	33	18	9.5
16	20	10	14	15	115	330	56	109	68	31	17	9.3
17	20	10	14	43	89	237	64	116	64	29	15	9.3
18	20	15	14	35	75	187	70	107	61	29	14	9.5
19	19	12	14	127	63	157	70	112	58	28	14	9.6
20	19	11	14	169	54	136	148	110	55	27	16	13
21	19	11	14	87	49	113	226	202	95	26	14	61
22	19	11	13	58	53	100	170	164	216	43	14	36
23	19	10	12	46	50	91	139	143	131	43	13	23
24	19	10	13	39	48	88	119	125	102	39	12	19
25	19	10	13	34	46	83	105	113	85	26	12	17
26	18	10	14	29	43	74	134	298	76	25	12	15
27	16	9.8	14	27	42	70	128	386	69	24	12	14
28	16	9.8	14	25	45	81	130	251	63	22	19	12
29	17	9.9	15	22	---	82	119	194	59	21	11	14
30	20	10	15	21	---	81	105	186	55	21	9.4	26
31	20	---	16	20	---	77	---	175	---	21	9.6	---
TOTAL	517.1	409.5	408.8	1045	1704	5131	2620	7767	2843	1042	511.0	432.0
MEAN	16.7	13.6	13.2	33.7	60.9	166	87.3	251	94.8	33.6	16.5	14.4
MAX	20	19	16	169	140	1100	226	2370	216	53	23	61
MIN	8.5	9.8	9.8	14	31	53	47	97	55	21	9.4	9.3
AC-FT	1030	812	811	2070	3380	10180	5200	15410	5640	2070	1010	857

CAL YR 1989 TOTAL 13875.9 MEAN 38.0 MAX 473 MIN 8.5 AC-FT 27520
WTR YR 1990 TOTAL 24430.4 MEAN 66.9 MAX 2370 MIN 8.5 AC-FT 48460

07196900 BARON FORK AT DUTCH MILLS, ARKANSAS

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 downstream from Fly Creek, and 2.9 mi upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--40.6 mi² (corrected.)

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Water-discharge records good.

AVERAGE DISCHARGE.--32 years, 42.5 ft³/s, 14.22 in/yr, 30,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft³/s Nov. 18, 1985, gage height, 14.81 ft, from rating curve extended above 2,900 ft³/s on basis of contracted-opening measurement at 12,900 ft³/s; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 01	1500	2,560	6.46	Apr. 20	0700	2,450	6.36
Feb. 14	2330	2,090	5.99	Apr. 25	2330	2,080	5.98
Feb. 15	0900	3,990	7.73	May 02	0315	2,980	6.88
Mar. 11	2100	4,890	8.42	May 03	0215	12,900	12.36
Mar. 14	1015	3,200	7.09	May 03	2300	2,590	6.49
Mar. 14	1800	5,090	8.56	May 30	1230	2,290	6.20
Apr. 16	2345	*14,000	*12.79				

Minimum discharge, 0.45 ft³/s Oct. 28, 29, Nov. 12, 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.1	5.2	2.7	625	157	56	166	108	8.3	3.8	1.7
2	1.3	1.0	5.3	2.1	229	90	50	1730	87	7.4	3.6	1.7
3	1.5	1.2	5.7	3.0	113	68	44	3360	71	6.7	2.6	1.7
4	1.5	1.0	5.5	4.3	91	55	40	736	57	6.0	2.3	1.6
5	1.4	1.0	5.7	2.9	67	49	37	308	49	5.7	2.3	1.7
6	2.6	1.1	5.1	2.0	56	47	34	211	43	6.0	1.9	1.6
7	3.7	1.4	5.5	1.6	45	176	32	151	37	5.7	2.0	1.6
8	3.2	1.2	5.3	1.3	38	142	30	122	33	5.0	1.9	2.1
9	2.8	.93	5.1	.97	56	94	29	103	30	4.4	1.8	2.5
10	2.3	.75	4.0	.84	85	76	665	87	28	4.3	1.7	2.4
11	1.9	.62	3.0	.85	57	694	163	92	28	3.9	1.9	2.9
12	1.7	.50	2.6	.82	44	646	104	147	23	3.7	3.3	2.9
13	1.5	1.3	2.9	.78	37	217	83	94	20	4.2	13	3.7
14	1.4	1.3	3.5	.87	158	1710	112	73	18	5.2	5.5	3.6
15	1.3	1.6	2.5	3.0	1350	531	85	62	31	4.4	3.7	2.5
16	1.0	1.6	2.3	8.2	242	219	894	66	20	3.7	3.3	1.9
17	.90	1.6	2.0	74	125	145	2640	68	17	3.2	2.8	1.6
18	.80	2.4	2.0	38	91	113	327	58	15	3.1	2.4	1.6
19	.72	2.5	2.6	437	72	97	409	69	14	3.1	2.1	1.7
20	.69	3.5	3.2	142	58	81	1190	202	12	2.7	1.9	15
21	.67	4.4	3.4	59	53	71	382	135	103	2.5	2.0	190
22	.63	3.9	3.1	37	110	62	208	89	61	4.1	2.3	42
23	.59	4.5	3.1	27	80	53	145	68	31	4.7	2.1	17
24	.58	2.9	3.1	20	61	57	113	56	22	3.6	2.1	10
25	.60	3.5	2.9	15	49	60	222	49	17	3.1	2.0	7.1
26	.59	4.6	2.7	12	43	53	555	51	15	3.3	2.2	5.3
27	.54	5.4	2.8	10	39	48	264	265	14	3.2	2.3	4.2
28	.48	5.4	2.8	9.2	94	97	182	98	12	2.7	2.0	3.5
29	.77	6.6	2.4	8.2	---	97	121	68	10	2.3	2.2	3.1
30	.99	6.8	2.3	7.7	---	77	90	547	9.1	2.1	2.1	3.9
31	1.4	---	2.8	6.7	---	65	---	180	---	1.9	1.9	---
TOTAL	41.35	75.60	110.4	939.03	4168	6147	9306	9511	1035.1	130.2	87.0	342.1
MEAN	1.33	2.52	3.56	30.3	149	198	310	307	34.5	4.20	2.81	11.4
MAX	3.7	6.8	5.7	437	1350	1710	2640	3360	108	8.3	13	190
MIN	.48	.50	2.0	.78	37	47	29	49	9.1	1.9	1.7	1.6
AC-FT	82	150	219	1860	8270	12190	18460	18870	2050	258	173	679
CFSM	.03	.06	.09	.75	3.67	4.88	7.64	7.56	.85	.10	.07	.28
IN.	.04	.07	.10	.86	3.82	5.63	8.53	8.71	.95	.12	.08	.31

CAL YR 1989 TOTAL 18323.96 MEAN 50.2 MAX 1090 MIN .36 AC-FT 36350 CFSM 1.24 IN. 16.79
WTR YR 1990 TOTAL 31892.78 MEAN 87.4 MAX 3360 MIN .48 AC-FT 63260 CFSM 2.15 IN. 29.22

07196900 BARON FORK AT DUTCH MILLS, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1961, October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 24...	1430	9827	9827	0.58	7.9	18.0	3.0	10.4	--
DEC 05...	1357	9827	9827	5.3	8.3	11.5	2.8	14.9	0.5
JAN 23...	1353	9827	9827	27	7.8	11.0	4.0	10.9	0.2
FEB 27...	1636	9827	9827	38	8.3	12.0	4.4	12.8	--
MAR 27...	1332	9827	9827	48	8.8	11.0	2.3	14.8	0.9
APR 24...	1355	9827	9827	112	8.0	20.0	4.6	9.6	0.3
MAY 08...	1400	9827	9827	122	7.8	19.0	3.6	9.9	0.4
JUN 26...	1406	9827	9827	16	7.9	24.0	--	7.7	--
JUL 31...	1318	9827	9827	1.9	7.9	26.0	--	7.2	2.4
AUG 28...	1318	9827	9827	2.3	8.1	29.0	--	8.6	1.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 24...	1430	170	11	8.6	212	4	0.190	<0.050	--
DEC 05...	1357	170	15	--	--	2	0.160	--	--
JAN 23...	1353	140	24	6.2	177	3	5.00	<0.050	--
FEB 27...	1636	120	11	5.8	160	6	3.70	<0.050	--
MAR 27...	1332	120	12	5.7	157	3	2.90	<0.050	0.82
APR 24...	1355	110	11	4.2	145	7	--	<0.050	--
MAY 08...	1400	110	8.0	4.8	151	6	3.30	<0.050	--
JUN 26...	1406	150	11	5.7	183	--	2.10	<0.050	--
JUL 31...	1318	--	8.0	6.6	179	8	0.540	--	--
AUG 28...	1318	130	10	6.5	166	10	0.030	<0.050	--

07196900 BARON FORK AT DUTCH MILLS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
24...	1430	--	0.060	<1	<1	<15	<2	<10	3.9
DEC									
05...	1357	0.160	--	--	--	--	--	--	1.9
JAN									
23...	1353	0.070	--	--	--	--	--	--	3.0
FEB									
27...	1636	0.130	--	--	--	--	--	--	2.2
MAR									
27...	1332	0.080	0.050	--	--	--	--	--	3.8
APR									
24...	1355	0.090	0.030	--	--	--	--	--	3.5
MAY									
08...	1400	0.090	<0.030	--	--	--	--	--	2.1
JUN									
26...	1406	0.110	0.070	--	--	--	--	--	3.1
JUL									
31...	1318	0.080	0.030	--	--	--	--	--	4.1
AUG									
28...	1318	0.070	<0.030	--	--	--	--	--	3.2

07246940 POTEAU RIVER AT WALDRON, ARKANSAS

LOCATION.--Lat 34°53'46", long 94°03'57", in SW ¼ SE ¼ sec.22, T.3 N., R.29 W., Scott County, Hydrologic Unit 11110105, at downstream side of bridge on State Highway 80 in Waldron, 1.8 mi east of Waldron High School.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10...	1000	9827	9827	20	7.7	16.0	8.4	--	1.2
NOV 07...	1515	9827	9827	19	7.7	21.0	15	7.0	3.2
DEC 12...	1220	9827	9827	29	7.3	2.0	340	9.7	5.1
JAN 09...	1030	9827	9827	31	7.6	6.0	85	8.7	3.0
FEB 13...	1246	9827	9827	29	7.6	12.0	20	--	0.7
MAR 13...	1140	9827	9827	70	7.5	18.0	20	9.4	1.6
APR 10...	1129	9827	9827	--	7.7	15.0	70	9.1	4.8
MAY 22...	0900	9827	9827	57	7.3	18.0	30	8.7	0.9
JUN 12...	0913	9827	9827	20	7.4	26.0	--	7.3	1.3
JUL 17...	1120	9827	9827	50	7.4	24.0	--	6.0	2.5
SEP 11...	0941	9827	9827	--	7.1	25.0	--	6.1	5.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 10...	1000	58	15	11	--	18	<0.020	<0.050	0.62
NOV 07...	1515	66	--	--	132	14	<0.020	<0.050	0.90
DEC 12...	1220	62	35	30	285	111	0.550	0.350	1.4
JAN 09...	1030	52	--	18	161	16	0.500	0.060	0.86
FEB 13...	1246	16	9.0	--	--	7	0.140	<0.050	0.46
MAR 13...	1140	24	7.0	5.5	34	6	0.110	<0.050	0.80
APR 10...	1129	22	11	7.0	85	46	0.140	0.050	1.3
MAY 22...	0900	16	7.0	3.3	56	12	0.090	<0.050	0.42
JUN 12...	0913	20	7.0	3.6	54	11	0.040	0.050	0.98
JUL 17...	1120	--	12	6.8	87	5	0.040	0.050	1.6
SEP 11...	0941	28	15	7.6	116	270	0.560	0.180	--

07246940 POTEAU RIVER AT WALDRON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
10...	1000	0.070	--	<1	<1	--	<2	<10	4.2
NOV									
07...	1515	0.090	<0.030	<1	1	<15	2	10	11
DEC									
12...	1220	0.740	0.570	--	5	20	13	40	10
JAN									
09...	1030	0.160	0.160	--	--	--	--	--	--
FEB									
13...	1246	0.060	<0.030	--	--	--	--	--	3.8
MAR									
13...	1140	0.110	0.030	--	--	--	--	--	7.2
APR									
10...	1129	0.270	0.070	--	--	--	--	--	14
MAY									
22...	0900	0.070	<0.030	--	--	--	--	--	5.9
JUN									
12...	0913	0.060	<0.030	--	--	--	--	--	7.3
JUL									
17...	1120	0.080	<0.030	--	--	--	--	--	9.0
SEP									
11...	0941	--	0.090	--	--	--	--	--	--

07246950 POTEAU RIVER NORTHWEST OF WALDRON, ARKANSAS

LOCATION.--Lat 34°54'47", long 94°06'28", in SE ¼ SW ¼ sec.17, T.3 N., R.29 W., Scott County, Hydrologic Unit 11110105, at bridge on U.S. Highway 71, 0.9 mi north of Waldron city limits and Kansas City Southern Railroad crossing.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10...	0950	9827	9827	20	7.1	19.0	7.2	--	3.1
NOV 07...	1545	9827	9827	19	6.9	20.0	10	2.4	--
DEC 12...	1245	9827	9827	29	7.3	8.0	45	6.1	30
JAN 09...	1015	9827	9827	31	7.2	11.0	7.5	6.2	11
FEB 13...	1217	9827	9827	30	7.1	12.0	30	--	1.4
MAR 13...	1125	9827	9827	73	7.3	17.0	25	8.3	1.7
APR 10...	1115	9827	9827	--	7.6	15.0	75	8.6	4.2
MAY 22...	0835	9827	9827	60	7.3	20.0	25	8.0	2.9
JUN 12...	0850	9827	9827	22	7.0	26.0	--	6.7	2.1
JUL 17...	1100	9827	9827	50	6.8	26.0	--	4.0	8.3
AUG 21...	1245	9827	9827	--	7.0	30.0	--	6.7	5.7
SEP 11...	0916	9827	9827	--	7.0	25.0	--	3.4	4.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 10...	0950	48	52	76	--	14	3.00	2.10	3.0
NOV 07...	1545	36	--	--	299	17	2.60	2.91	5.5
DEC 12...	1245	40	52	68	279	107	4.00	13.0	21
JAN 09...	1015	48	--	61	277	12	2.80	10.8	9.4
FEB 13...	1217	18	11	--	--	16	0.650	0.130	0.82
MAR 13...	1125	16	6.0	5.0	37	17	0.170	<0.050	0.71
APR 10...	1115	22	9.0	5.0	71	59	0.160	<0.050	1.2
MAY 22...	0835	16	6.0	2.9	47	17	0.090	<0.050	0.67
JUN 12...	0850	24	10	9.5	79	21	0.430	0.220	0.98
JUL 17...	1100	--	53	78	368	6	6.70	5.75	--
AUG 21...	1245	--	48	62	289	16	5.80	0.090	1.4
SEP 11...	0916	50	41	58	272	42	2.80	1.64	--

07246950 POTEAU RIVER NORTHWEST OF WALDRON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
10...	0950	11.2	--	<1	<1	--	<2	<10	9.9
NOV									
07...	1545	11.2	9.35	<1	1	20	2	40	17
DEC									
12...	1245	11.8	10.9	<1	<1	31	<2	40	15
JAN									
09...	1015	8.80	8.28	--	--	--	--	--	--
FEB									
13...	1217	0.850	0.660	--	--	--	--	--	5.6
MAR									
13...	1125	0.120	<0.050	--	--	--	--	--	7.4
APR									
10...	1115	0.280	0.030	--	--	--	--	--	12
MAY									
22...	0835	0.090	<0.030	--	--	--	--	--	7.0
JUN									
12...	0850	0.770	0.570	--	--	--	--	--	6.9
JUL									
17...	1100	28.5	27.6	--	--	--	--	--	12
AUG									
21...	1245	9.10	8.25	--	--	--	--	--	9.0
SEP									
11...	0916	--	8.90	--	--	--	--	--	--

07247000 POTEAU RIVER AT CAUTHRON, ARKANSAS

LOCATION.--Lat 34°55'08", long 94°17'55", in NW ¼ SW ¼ 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 downstream from Cross Creek, 7.8 mi downstream from Jones Creek, and at mile 109.0.

DRAINAGE AREA.--203 mi².

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 above National Geodetic Vertical Datum of 1929. Prior to May 2, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. As of September 1974, flow from 92.2 mi² upstream from this station is controlled by 16-floodwater detention reservoirs that have a total combined capacity of 39,082 acre-ft below the flood spillway crests, of which 33,524 acre-ft is flood detention capacity, 2,100 acre-ft is water-supply storage, and 3,458 acre-ft is sediment storage capacity.

AVERAGE DISCHARGE.--51 years, 224 ft³/s, 162,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,200 ft³/s May 20, 1960, gage height, 23.76 ft; no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1935 reached a stage of 27.4 ft, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,000 ft³/s May 3, gage height, 22.17 ft; minimum, 0.45 ft³/s July 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.3	2.7	6.0	4370	469	455	881	608	2.5	91	67
2	12	7.1	2.7	4.7	3190	371	340	11000	749	2.2	86	63
3	10	4.3	2.2	4.3	1440	255	261	16900	1050	1.4	85	65
4	11	2.9	1.6	4.3	1160	195	212	5610	576	1.1	87	64
5	7.8	3.3	2.0	3.8	748	162	179	2430	369	.84	92	48
6	5.0	3.4	2.5	3.9	572	144	601	2070	272	.82	81	11
7	4.9	3.8	3.9	4.5	443	934	427	1930	210	.81	78	2.3
8	4.8	5.9	5.2	4.4	351	4260	297	1780	164	.77	79	1.0
9	5.5	8.8	5.8	4.4	1300	1410	242	1590	124	.61	83	.86
10	4.8	9.1	3.0	4.1	1930	887	517	1280	98	.69	82	.61
11	3.9	8.2	1.8	3.7	827	672	502	1100	80	62	78	2.4
12	3.4	6.0	1.3	3.1	603	1630	322	1020	74	80	121	9.4
13	3.2	1.1	.97	2.7	459	858	254	919	59	73	122	13
14	3.2	2.3	.80	2.8	368	923	252	756	48	78	96	4.1
15	2.3	3.7	.68	3.1	669	2560	221	678	39	74	94	1.8
16	1.7	4.3	.66	4.4	444	967	692	586	30	74	87	.98
17	2.4	4.7	.82	83	311	711	832	532	25	74	130	.74
18	1.8	4.8	.87	104	253	581	691	358	22	78	87	.88
19	1.3	4.2	.89	3290	215	477	1650	1120	19	79	74	1.0
20	1.2	4.5	.91	2240	178	375	3650	3440	17	82	72	1.2
21	1.1	3.4	1.0	831	155	296	4790	1540	13	110	70	e90
22	1.0	2.2	1.0	583	322	241	1840	1020	12	90	70	e310
23	1.0	2.0	.96	416	262	196	1730	747	10	84	75	e120
24	1.2	2.2	1.0	342	192	162	1070	579	8.9	81	71	e70
25	1.5	2.9	1.1	272	152	157	826	428	6.7	91	73	e40
26	1.8	3.1	1.3	212	129	164	731	326	5.1	104	72	e30
27	2.0	3.5	1.5	170	116	188	1000	591	7.1	88	68	e12
28	2.9	3.1	1.6	139	107	1030	1040	1020	7.2	84	68	e10
29	2.9	3.4	2.3	153	---	1150	696	653	5.6	82	69	e7.0
30	3.2	3.0	3.5	143	---	752	506	675	4.0	81	69	e4.0
31	3.6	---	6.2	112	---	584	---	927	---	100	67	---
TOTAL	123.4	129.5	62.76	9154.2	21266	23761	26826	64486	4712.6	1760.74	2577	1051.27
MEAN	3.98	4.32	2.02	295	759	766	894	2080	157	56.8	83.1	35.0
MAX	12	9.1	6.2	3290	4370	4260	4790	16900	1050	110	130	310
MIN	1.0	1.1	.66	2.7	107	144	179	326	4.0	.61	67	.61
AC-FT	245	257	124	18160	42180	47130	53210	127900	9350	3490	5110	2090

CAL YR 1989 TOTAL 117460.16 MEAN 322 MAX 7610 MIN .66 AC-FT 233000
WTR YR 1990 TOTAL 155910.47 MEAN 427 MAX 16900 MIN .61 AC-FT 309200

e Estimated

07249400 JAMES FORK NEAR HACKETT, ARKANSAS

LOCATION.--Lat 35°09'45", long 94°24'25", in NW ¼ NW ¼ 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 south of Hackett, 2.0 mi downstream from Elder Branch, 2.0 mi upstream from small tributary, and 3.6 mi upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi².

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Water-discharge records good.

AVERAGE DISCHARGE.--32 years, 140 ft³/s, 12.93 in/yr, 101,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft³/s May 14, 1968, gage height, 23.00 ft, from rating curve extended above 20,000 ft³/s; no flow at times.

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

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Jan. 19	1600	3,480	17.13	Apr. 17	1300	3,370	16.90
Feb. 01	2400	7,340	20.73	Apr. 21	0400	7,620	20.83
Mar. 12	0900	3,840	17.87	May 03	0300	*14,300	*21.92
Mar. 15	0600	5,990	20.18	May 20	1100	3,150	15.99

Minimum daily discharge, 0.75 ft³/s Oct. 23, Nov. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.9	2.0	3.7	3370	903	193	311	272	13	10	3.4
2	2.8	2.1	1.9	3.3	3160	340	175	8230	283	13	17	3.3
3	3.6	2.6	1.9	2.6	712	226	134	12200	284	12	13	3.2
4	3.8	2.9	1.8	2.0	595	169	114	4370	170	12	12	3.2
5	2.8	2.9	1.7	1.9	353	142	209	1090	125	11	11	3.2
6	3.5	2.7	1.8	1.9	288	130	432	669	93	11	11	3.7
7	5.2	3.3	2.0	1.9	238	1460	201	431	73	10	9.9	4.0
8	7.9	2.8	2.4	1.9	199	1940	139	320	59	9.9	9.2	4.7
9	8.4	3.4	3.0	2.3	242	578	116	277	50	9.4	8.6	5.1
10	7.4	3.1	3.5	2.4	731	354	524	221	46	9.0	7.9	5.8
11	6.7	2.9	3.6	2.4	326	365	275	194	200	8.5	7.1	7.5
12	5.8	2.2	3.5	2.5	244	2320	170	258	82	8.2	6.5	7.0
13	4.7	2.2	3.3	2.6	201	599	144	177	52	7.7	33	6.5
14	3.6	2.2	3.4	2.6	183	1030	157	133	41	7.4	21	6.6
15	2.7	2.2	3.2	2.5	1460	3460	499	111	35	7.2	13	6.0
16	2.2	2.9	3.2	4.4	588	651	1540	107	32	6.7	18	5.5
17	1.8	3.0	3.5	240	288	378	2170	148	27	6.4	12	5.1
18	1.5	2.6	3.5	62	218	279	761	119	24	6.2	9.6	4.7
19	1.3	2.7	3.6	2320	177	238	1750	142	23	5.9	7.9	24
20	.90	2.0	3.5	1230	146	191	3020	2040	21	5.7	6.5	142
21	.85	1.7	3.2	262	131	159	4600	1320	19	5.2	5.1	262
22	.80	2.0	3.2	157	294	140	1180	468	22	4.8	4.0	253
23	.75	2.2	3.0	120	215	120	914	260	24	4.7	3.6	53
24	.85	.95	3.2	94	147	118	441	184	20	4.4	5.0	22
25	.95	.75	3.3	76	117	161	314	141	19	4.2	5.0	13
26	1.7	1.6	3.4	68	99	171	319	163	17	4.1	4.2	10
27	1.7	2.7	3.2	61	89	162	319	634	16	4.2	4.2	8.9
28	1.3	2.4	3.0	54	146	730	266	1320	16	3.6	3.9	10
29	1.3	2.2	3.3	58	---	733	190	343	15	3.3	3.6	10
30	1.6	2.0	3.6	56	---	360	145	408	14	3.0	3.5	9.9
31	1.9	---	3.9	50	---	251	---	514	---	2.7	3.4	---
TOTAL	92.30	71.10	92.6	4948.9	14957	18858	21411	37303	2174	224.4	289.7	906.3
MEAN	2.98	2.37	2.99	160	534	608	714	1203	72.5	7.24	9.35	30.2
MAX	8.4	3.4	3.9	2320	3370	3460	4600	12200	284	13	33	262
MIN	.75	.75	1.7	1.9	89	118	114	107	14	2.7	3.4	3.2
AC-FT	183	141	184	9820	29670	37400	42470	73990	4310	445	575	1800
CFSM	.02	.02	.02	1.09	3.63	4.14	4.86	8.19	.49	.05	.06	.21
IN.	.02	.02	.02	1.25	3.79	4.77	5.42	9.44	.55	.06	.07	.23

CAL YR 1989 TOTAL 73346.30 MEAN 201 MAX 5340 MIN .75 AC-FT 145500 CFSM 1.37 IN. 18.56
WTR YR 1990 TOTAL 101328.30 MEAN 278 MAX 12200 MIN .75 AC-FT 201000 CFSM 1.89 IN. 25.64

07249400 JAMES FORK NEAR HACKETT, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1958 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	0901	9827	9827	7.2	7.8	17.0	6.0	--	0.9
NOV 07.	1700	9827	9827	3.2	7.7	16.0	4.0	2.4	2.5
DEC 12.	0845	9827	9827	3.6	7.8	0.0	5.0	10.0	1.8
JAN 09.	0920	9827	9827	2.2	7.7	5.0	4.5	10.2	1.5
FEB 13.	1103	9827	9827	202	7.2	12.0	25	--	0.6
MAR 13.	1030	9827	9827	592	7.1	18.0	40	8.1	1.6
APR 10.	0950	9827	9827	621	7.3	15.0	85	8.7	3.1
MAY 22.	0738	9827	9827	497	7.0	20.0	55	7.1	2.0
JUN 12.	0755	9827	9827	88	7.4	24.0	--	5.7	0.7
JUL 17.	1000	9827	9827	6.5	7.6	25.0	--	5.9	3.0
AUG 21.	1147	9827	9827	5.1	7.7	29.0	--	5.4	0.2
SEP 11.	0818	9827	9827	7.1	7.6	25.0	--	3.1	0.8

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	0901	170	99	6.3	--	7	<0.020	<0.050	0.030
NOV 07.	1700	180	--	--	329	9	<0.020	<0.050	0.070
DEC 12.	0845	200	90	7.3	338	8	<0.020	<0.050	0.060
JAN 09.	0920	210	--	6.4	311	6	<0.020	0.080	0.050
FEB 13.	1103	56	50	--	--	14	0.250	<0.050	0.070
MAR 13.	1030	42	28	3.7	53	22	0.170	<0.050	0.130
APR 10.	0950	40	20	4.1	90	83	0.140	0.110	0.200
MAY 22.	0738	30	19	3.5	87	97	0.140	0.060	0.150
JUN 12.	0755	86	55	3.3	149	44	0.280	0.120	0.080
JUL 17.	1000	--	150	4.8	317	6	0.030	<0.050	<0.030
AUG 21.	1147	170	130	4.4	264	10	0.020	<0.050	0.030
SEP 11.	0818	140	100	6.3	280	14	<0.020	0.070	--

07249400 JAMES FORK NEAR HACKETT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	0901	--	1	<1	--	<2	<10	4.2
NOV								
07.	1700	<0.030	<1	2	<15	<2	<10	9.7
DEC								
12.	0845	<0.030	<1	<1	15	2	<10	4.0
JAN								
09.	0920	<0.030	--	--	--	--	--	--
FEB								
13.	1103	<0.030	--	--	--	--	--	4.3
MAR								
13.	1030	<0.030	--	--	--	--	--	7.0
APR								
10.	0950	0.040	--	--	--	--	--	8.8
MAY								
22.	0738	0.030	--	--	--	--	--	7.6
JUN								
12.	0755	0.040	--	--	--	--	--	6.6
JUL								
17.	1000	<0.030	--	--	--	--	--	4.8
AUG								
21.	1147	<0.030	--	--	--	--	--	3.2
SEP								
11.	0818	<0.030	--	--	--	--	--	--

07250000 LEE CREEK NEAR VAN BUREN, ARKANSAS

LOCATION.--Lat 35°29'40", long 94°26'58", in SE ¼ sec.21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., Hydrologic Unit 11110104, on right bank 300 ft west of Arkansas-Oklahoma State line, 3.2 mi downstream from Webbers Creek, 6.8 mi northwest of Van Buren, and at mile 7.8.

DRAINAGE AREA.--426 mi².

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 above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). September 1930 to June 1937, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--46 years (1930-36, 1950-90), 522 ft³/s, 16.64 in/yr, 378,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,600 ft³/s May 6, 1960, gage height, 30.30 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 15, 1945, reached a stage of about 35.0 ft, from floodmarks, discharge about 112,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 15	1800	17,200	16.56	Apr. 17	1300	26,200	21.14
Mar. 12	0815	18,100	17.06	Apr. 20	1700	19,600	17.90
Mar. 15	0400	18,400	17.25	May 03	1200	*41,800	*27.16

Minimum discharge, 0.38 ft³/s Sept. 19, gage height, 0.42 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	2.8	4.5	4.9	4580	2510	961	1650	1390	39	5.6	.94
2	6.8	2.5	4.2	4.6	5720	1730	837	13600	1060	33	6.2	.82
3	6.5	1.9	4.0	5.1	2180	1190	732	31000	951	29	5.2	.76
4	5.9	1.7	3.6	5.9	1470	923	661	9740	734	25	4.5	.62
5	5.8	1.6	3.8	5.6	1060	777	607	4370	573	24	4.5	.53
6	5.6	1.6	3.8	5.6	853	702	569	2800	468	20	3.8	.54
7	5.2	1.4	3.7	5.6	711	1960	509	1950	385	18	3.0	.54
8	4.4	1.1	3.8	5.4	611	3240	463	1460	322	17	2.5	.54
9	3.7	1.4	3.8	5.2	568	1890	430	1120	276	14	2.2	.52
10	5.4	1.8	3.8	4.8	844	1330	934	863	237	11	2.0	.50
11	3.9	1.9	3.9	4.3	839	1660	1280	742	409	9.8	1.9	.59
12	2.6	1.9	3.8	3.9	695	12200	918	794	266	7.5	5.1	.60
13	1.7	2.0	3.8	3.8	610	4230	782	789	202	6.5	10	.46
14	1.4	2.1	3.8	3.5	561	5650	811	642	160	6.0	12	.48
15	1.6	2.1	3.8	3.8	11300	10700	905	545	127	5.6	14	.41
16	2.0	2.1	3.5	5.1	5250	3660	1580	474	106	5.3	10	.40
17	1.8	1.8	3.7	36	2300	2280	15800	470	92	4.8	8.5	.46
18	1.2	2.1	3.8	431	1460	1620	5260	466	88	4.5	6.9	.46
19	1.4	4.3	3.9	3190	1060	1280	4830	802	72	4.1	6.4	.40
20	1.4	4.3	5.0	3940	833	1060	12300	2200	57	3.7	5.8	.43
21	1.9	3.3	3.6	1160	706	906	7410	1890	46	3.2	6.8	.92
22	1.8	4.5	3.2	664	944	800	3420	1290	51	4.4	6.3	1.2
23	1.6	5.3	3.2	481	951	705	2270	919	121	5.6	4.5	1.0
24	1.6	5.0	3.2	379	777	655	1650	724	173	6.8	4.1	.88
25	1.6	5.2	3.2	309	655	764	1270	595	128	10	3.3	.73
26	1.5	5.4	3.2	256	575	721	4000	510	102	10	2.6	.60
27	1.5	5.4	3.2	219	522	662	2960	1850	85	8.6	2.4	.59
28	1.5	5.2	3.2	189	624	948	2570	1790	70	7.7	2.1	.53
29	1.6	4.5	3.5	166	---	1620	1750	1040	59	7.0	1.8	.50
30	2.7	4.4	4.0	146	---	1350	1290	1480	47	6.4	1.5	.55
31	3.1	---	4.4	130	---	1120	---	2320	---	5.5	1.1	---
TOTAL	96.0	90.6	115.9	11773.1	49259	70843	79759	90885	8857	363.0	156.6	18.50
MEAN	3.10	3.02	3.74	380	1759	2285	2659	2932	295	11.7	5.05	.62
MAX	7.3	5.4	5.0	3940	11300	12200	15800	31000	1390	39	14	1.2
MIN	1.2	1.1	3.2	3.5	522	655	430	466	46	3.2	1.1	.40
AC-FT	190	180	230	23350	97710	140500	158200	180300	17570	720	311	37
CFSM	.01	.01	.01	.89	4.13	5.36	6.24	6.88	.69	.03	.01	.00
IN.	.01	.01	.01	1.03	4.30	6.19	6.96	7.94	.77	.03	.01	.00

CAL YR 1989 TOTAL 262574.1 MEAN 719 MAX 12400 MIN 1.1 AC-FT 520800 CFSM 1.69 IN. 22.93
WTR YR 1990 TOTAL 312216.70 MEAN 855 MAX 31000 MIN .40 AC-FT 619300 CFSM 2.01 IN. 27.26

07250500 ARKANSAS RIVER AT VAN BUREN, ARKANSAS

LOCATION.--Lat 35°25'42", long 94°21'37", in SE ¼ SW ¼ 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 downstream from Lee Creek, 8.7 mi downstream from Poteau River, and at mile 316.5.

DRAINAGE AREA.--150,482 mi², of which 22,241 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1945 to September 1970, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1945 to September 1970.
SEDIMENT RECORDS: October 1967 to September 1970.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	0745	9827	9827	8.3	19.0	20	--	1.2	140
NOV 07.	1800	9827	9827	8.4	15.0	20	10.5	1.6	170
DEC 12.	1620	9827	9827	8.5	5.0	7.5	13.4	1.8	160
JAN 09.	0810	9827	9827	8.2	2.0	6.0	13.8	1.8	170
FEB 13.	0942	9827	9827	7.4	12.0	50	--	4.6	84
MAR 13.	0850	9827	9827	7.7	15.0	60	9.4	6.0	120
APR 10.	0830	9827	9827	7.6	--	55	9.8	1.5	110
JUN 12.	0655	9827	9827	7.6	25.0	--	7.7	1.8	88
JUL 17.	0900	9827	9827	8.3	27.0	--	8.6	8.1	--
AUG 21.	1038	9827	9827	8.6	30.0	--	9.8	2.4	160
SEP 11.	0712	9827	9827	8.3	28.0	--	7.2	2.1	150

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	0745	53	96	--	16	0.360	<0.050	0.140
NOV 07.	1800	--	--	470	24	0.250	<0.050	0.140
DEC 12.	1620	61	120	421	11	0.210	<0.050	0.100
JAN 09.	0810	--	120	470	12	0.190	0.050	0.090
FEB 13.	0942	41	--	--	44	0.340	<0.050	0.130
MAR 13.	0850	46	72	263	60	0.320	<0.050	0.180
APR 10.	0830	37	49	244	41	0.440	0.090	0.150
JUN 12.	0655	24	20	167	41	0.400	0.100	0.120
JUL 17.	0900	49	74	275	11	0.030	0.060	0.070
AUG 21.	1038	65	120	419	12	<0.020	<0.050	<0.030
SEP 11.	0712	52	99	380	11	<0.020	0.080	--

07250500 ARKANSAS RIVER AT VAN BUREN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	0745	--	<1	<1	--	<2	<10	4.9
NOV								
07.	1800	0.030	<1	2	<15	2	10	5.9
DEC								
12.	1620	0.030	<1	<1	20	<2	<10	4.5
JAN								
09.	0810	<0.030	--	--	--	--	--	--
FEB								
13.	0942	<0.030	--	--	--	--	--	7.1
MAR								
13.	0850	0.030	--	--	--	--	--	9.0
APR								
10.	0830	0.050	--	--	--	--	--	6.3
JUN								
12.	0655	0.040	--	--	--	--	--	6.9
JUL								
17.	0900	<0.030	--	--	--	--	--	7.2
AUG								
21.	1038	<0.030	--	--	--	--	--	5.0
SEP								
11.	0712	<0.030	--	--	--	--	--	--

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM, NEAR VAN BUREN, ARKANSAS
(National tritium station)
(National stream-quality accounting network station)

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.

DRAINAGE AREA.--150,547 mi², of which 22,241 mi² 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", and October 1969 to September 1988, published as "at Dam No. 13", near Van Buren. Gage-height records collected from 1879 to December 1955 at Fort Smith, 16.3 mi upstream, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: 1934-36. WSP 1561: 1554. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage and gate position recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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 upstream at datum 372.36 ft higher.

REMARKS.--Water-discharge records good, except for estimated daily discharges, which are fair. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated upstream by many locks, dams, and reservoirs. On Oct. 19, 1988, the Arkansas Electric Cooperative Corporation hydroplant began operation, and discharges at the hydroplant are added to flows from the lock and dam. Satellite telemeter at station.

AVERAGE DISCHARGE.--63 years, 32,820 ft³/s, 23,780,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 850,000 ft³/s May 12, 1943, gage height, 38.0 ft, from floodmark, site and datum then in use; maximum gage height, 38.10 ft, former site and datum, Apr. 16, 1945; no flow Nov. 2, 1975, Feb. 1, 1981, Oct. 17, 1987, Dec. 9, 1989.

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 on Fort Smith gage, from records collected by National Weather Service. Flood of Apr. 16, 1927, reached a stage of 35.0 ft, former site and datum, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 401,000 ft³/s May 5, tailwater elevation, 401.75 ft; no flow Dec. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36300	27300	8440	3870	65900	93200	149000	162000	139000	39100	7250	5470
2	37500	30000	11800	6990	87800	106000	152000	188000	142000	39800	8810	5580
3	38200	26300	10300	4000	63600	97200	152000	276000	144000	40300	13600	7430
4	35200	18800	6320	11200	44300	82000	153000	352000	143000	40600	5670	7700
5	36300	20700	2190	15100	33500	78000	153000	397000	139000	37400	2600	15000
6	31500	23000	4300	2590	36700	75800	153000	359000	136000	32100	5480	8650
7	28700	27800	5710	3530	34700	90000	154000	298000	134000	30700	9320	4890
8	e25000	27600	2730	5180	36100	121000	154000	248000	130000	27700	7920	407
9	e17000	22900	.00	2100	34800	116000	154000	222000	129000	31200	11200	282
10	29400	5260	3310	4710	34500	110000	154000	214000	e120000	30900	7700	4650
11	28600	169	12100	13900	30500	111000	156000	210000	e91000	27200	362	5000
12	26600	218	1270	14800	33400	160000	156000	191000	e84000	27200	11200	2800
13	25200	4010	5150	5620	32900	178000	152000	169000	78200	26400	e7000	2630
14	27200	7110	5820	1540	31300	161000	136000	155000	59800	885	e10000	1510
15	24500	18300	4610	2170	71900	191000	99200	143000	64500	653	e7900	368
16	17400	6020	2760	4910	74300	198000	98700	145000	60800	3960	e21000	319
17	5400	5270	36	27900	67600	174000	136000	151000	68600	6440	e17000	4260
18	9880	3250	2750	20300	44200	157000	162000	153000	67600	6130	e7800	7720
19	5520	3520	2390	36200	37300	150000	144000	128000	65100	12400	e5600	4790
20	4520	6380	2990	78000	38500	150000	160000	130000	62900	9780	e11000	8700
21	1680	487	7710	56700	43000	152000	191000	137000	63400	2140	e17000	27400
22	3460	8730	8610	39000	54700	152000	174000	144000	63200	695	14400	36900
23	5040	115	5480	39600	65800	152000	152000	140000	63300	6010	12900	19200
24	6890	2410	145	39200	69300	153000	135000	134000	62800	6980	13500	18800
25	2330	2150	917	39000	60400	155000	124000	132000	61900	18900	644	26600
26	1660	2860	1030	39400	57900	154000	137000	135000	58800	9590	300	15700
27	46	13200	1700	38600	65300	153000	171000	139000	46500	11700	12500	20900
28	1040	9180	2700	41200	62700	155000	182000	141000	44200	3100	11300	11200
29	1770	9660	2710	39500	---	163000	165000	139000	39800	5970	14800	5740
30	13200	93	1570	37500	---	157000	160000	139000	40100	9870	10500	8990
31	19400	---	2170	37000	---	149000	---	142000	---	6280	14900	---
TOTAL	546436	332792	129718.00	711310	1412900	4294200	4518900	5813000	2602500	552083	301156	289586
MEAN	17630	11090	4184	22950	50460	138500	150600	187500	86750	17810	9715	9653
MAX	38200	30000	12100	78000	87800	198000	191000	397000	144000	40600	21000	36900
MIN	46	93	.00	1540	30500	75800	98700	128000	39800	653	300	282
AC-FT	1084000	660100	257300	1411000	2802000	8518000	8963000	11530000	5162000	1095000	597300	574400

CAL YR 1989 TOTAL 12933463.00 MEAN 35430 MAX 138000 MIN .00 AC-FT 25650000
WTR YR 1990 TOTAL 21504581.00 MEAN 58920 MAX 397000 MIN .00 AC-FT 42650000

e Estimated

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to September 1981.
WATER TEMPERATURES: October 1969 to September 1972, March 1974 to September 1981.

INSTRUMENTATION.--Water-quality monitor December 1969 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT											
31...	1230	80513	80020	28400	822	8.2	17.0	7.9	9.4	98	757
JAN											
17...	0850	80513	80020	21900	870	8.4	6.0	3.2	13.0	106	752
MAR											
27...	0830	80513	80020	154000	480	8.0	10.0	36	12.8	114	762
JUN											
06...	0745	80513	80020	136000	290	7.5	23.0	50	9.1	108	749
AUG											
13...	1200	80513	80020	10500	575	7.8	27.5	5.5	7.2	92	757
SEP											
05...	0845	80513	80020	8570	775	8.1	30.0	4.0	7.9	106	757

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
31...	1230	500	460	160	48	45	11	94	56	3	4.3
JAN											
17...	0850	60	800	160	49	47	11	98	56	3	3.4
MAR											
27...	0830	100	150	130	40	38	9.0	39	38	1	3.6
JUN											
06...	0745	K28	K580	100	16	32	5.8	16	25	0.7	2.5
AUG											
13...	1200	150	190	130	27	39	9.1	58	48	2	3.0
SEP											
05...	0845	4	28	150	33	43	11	83	53	3	3.8

DATE	TIME	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
31...	1230	109	0	134	110	58	150	0.20	5.4	425
JAN										
17...	0850	114	2	134	114	62	140	0.30	3.6	460
MAR										
27...	0830	92	0	112	92	42	56	0.20	6.0	273
JUN										
06...	0745	86	0	107	88	27	20	<0.10	7.1	169
AUG										
13...	1200	107	0	132	108	45	90	0.50	4.1	302
SEP										
05...	0845	115	0	146	120	57	130	0.10	3.3	401

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
31...	1230	436	32600	0.58	--	<0.010	0.320	0.090	0.080	0.41
JAN										
17...	0850	433	27200	0.63	--	<0.010	<0.100	0.040	0.040	0.66
MAR										
27...	0830	252	114000	0.37	0.480	0.020	0.500	0.150	0.060	0.95
JUN										
06...	0745	166	62100	0.23	--	<0.010	0.600	0.080	<0.010	0.72
AUG										
13...	1200	314	8560	0.41	--	<0.010	<0.100	0.070	0.090	0.63
SEP										
05...	0845	404	9280	0.55	--	<0.010	<0.100	0.060	0.060	0.54

DATE	TIME	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
OCT										
31...	1230	0.50	0.110	0.080	0.080	93	<10	2	<0.5	<1.0
JAN										
17...	0850	0.70	0.080	0.020	0.020	--	--	--	--	--
MAR										
27...	0830	1.1	0.110	0.040	0.040	76	50	1	<0.5	<1.0
JUN										
06...	0745	0.80	0.100	0.040	0.040	58	60	1	<0.5	1.0
AUG										
13...	1200	0.70	0.070	0.050	0.040	--	--	--	--	--
SEP										
05...	0845	0.60	0.090	0.070	0.050	90	20	2	<0.5	<1.0

DATE	TIME	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT										
31...	1230	<1	<3	1	11	<1	7	2	0.1	<10
MAR										
27...	0830	<5	<3	10	46	<10	4	4	<0.1	<10
JUN										
06...	0745	<1	<3	9	72	1	<4	3	<0.1	<10
SEP										
05...	0845	2	<3	3	6	<1	8	1	<0.1	<10

DATE	TIME	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
31...	1230	1	<1	<1.0	370	<6	6	16	1230	62
JAN										
17...	0850	--	--	--	--	--	--	8	473	96
MAR										
27...	0830	<10	<1	<1.0	280	<6	18	86	35800	64
JUN										
06...	0745	1	<1	<1.0	180	<6	9	70	25700	76
AUG										
13...	1200	--	--	--	--	--	--	16	454	74
SEP										
05...	0845	1	<1	<1.0	360	<6	4	9	208	65

07252000 MULBERRY RIVER NEAR MULBERRY, ARKANSAS

LOCATION.--Lat 35°34'37", long 94°00'55", in SE ¼ SW ¼ sec.31, T.11 N., R.29 W., Franklin County, Hydrologic Unit 11110201, on left bank 0.6 mi upstream from Mill Creek, 5.7 mi north of Mulberry, and at mile 11.3.

DRAINAGE AREA.--373 mi².

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 above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Apr. 19, 1940, nonrecording gage at site 500 ft downstream at present datum.

REMARKS.--Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--52 years, 547 ft³/s, 19.91 in/yr, 396,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,200 ft³/s Dec. 3, 1982, gage height, 23.66 ft, from rating curve extended above 38,000 ft³/s; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1927 reached a stage of 22.0 ft, discharge, about 59,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 01	2400	12,500	10.57	May 03	1300	*57,300	*21.48
Mar. 15	0600	17,000	12.31	May 19	2300	17,000	12.35

Minimum discharge, 0.40 ft³/s Oct. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	.83	1.9	2.3	2320	945	1230	1680	1900	99	17	1.1
2	5.9	.91	2.0	2.3	6110	1180	1070	11000	1580	82	15	1.1
3	5.7	.88	2.1	2.2	2700	1120	906	40900	1320	67	14	.91
4	5.8	.81	2.1	2.1	2030	975	797	12200	1030	57	14	.67
5	5.7	.73	2.3	2.1	1570	853	714	5410	809	48	14	.54
6	5.3	.67	2.3	2.1	1230	760	638	3510	638	48	14	.50
7	5.0	.59	2.3	2.1	966	1270	538	2610	504	49	14	.55
8	4.6	.56	2.3	2.1	799	3660	462	2150	429	50	14	.58
9	3.9	.59	2.4	2.3	687	3120	411	1830	378	45	14	.62
10	3.6	.62	2.5	2.2	782	2360	799	1490	318	38	13	.68
11	3.0	.62	2.5	2.1	777	2020	1540	1190	410	35	13	.72
12	2.6	.62	2.5	2.2	640	5620	1230	1140	307	36	13	.77
13	2.1	.63	2.5	2.3	549	3760	1040	1010	261	35	13	.83
14	1.8	.72	2.7	2.3	486	4650	962	832	235	31	13	.89
15	1.5	.75	2.7	e4.0	1770	11100	897	706	225	25	13	.94
16	1.3	.75	2.7	e20	2620	4510	867	601	206	11	12	1.0
17	1.2	.75	2.7	e150	2020	3010	4130	710	186	11	12	1.1
18	1.1	.83	2.8	e240	1650	2300	4270	733	163	9.2	10	1.1
19	.89	.83	2.7	e1300	1350	1960	3140	4710	133	8.7	9.4	1.2
20	.79	.83	2.6	e3300	1090	1630	5010	10400	128	8.4	8.4	1.3
21	.67	.83	2.5	e1900	900	1330	6680	5220	111	8.4	7.5	2.2
22	.55	.93	2.5	e1300	974	1110	3990	3390	287	8.6	6.0	2.6
23	.50	1.0	2.5	887	1130	903	3240	2510	350	10	5.0	2.4
24	.45	1.1	2.4	622	979	764	2430	2070	278	11	4.4	2.4
25	.43	1.2	2.5	478	845	714	1990	1700	222	11	4.0	2.4
26	.48	1.3	2.5	369	751	621	2080	1430	170	13	3.1	2.5
27	.61	1.6	2.5	284	670	532	2580	2070	154	14	2.6	2.5
28	.77	1.7	2.5	220	608	534	2640	2330	152	15	2.1	2.5
29	.82	1.7	2.5	172	---	969	2210	1870	133	16	1.6	2.4
30	.94	1.7	2.5	157	---	1160	1830	1620	115	22	1.4	2.3
31	.88	---	2.3	140	---	1300	---	2190	---	20	1.3	---
TOTAL	75.28	27.58	75.8	11573.7	39003	66740	60321	131212	13132	942.3	298.8	41.30
MEAN	2.43	.92	2.45	373	1393	2153	2011	4233	438	30.4	9.64	1.38
MAX	6.4	1.7	2.8	3300	6110	11100	6680	40900	1900	99	17	2.6
MIN	.43	.56	1.9	2.1	486	532	411	601	111	8.4	1.3	.50
AC-FT	149	55	150	22960	77360	132400	119600	260300	26050	1870	593	82
CFSM	.01	.00	.01	1.00	3.73	5.77	5.39	11.3	1.17	.08	.03	.00
IN.	.01	.00	.01	1.15	3.89	6.66	6.02	13.09	1.31	.09	.03	.00

CAL YR 1989 TOTAL 194463.36 MEAN 533 MAX 10800 MIN .43 AC-FT 385700 CFSM 1.43 IN. 19.39
WTR YR 1990 TOTAL 323442.76 MEAN 886 MAX 40900 MIN .43 AC-FT 641500 CFSM 2.38 IN. 32.26

e Estimated

07252030 MULBERRY RIVER AT I-40 NEAR MULBERRY, ARKANSAS--CONTINUED

LOCATION.--Lat 35°32'06", long 94°02'12", in NE ¼ NW ¼ sec.24, T.10 N., R.28 W., Franklin County, Hydrologic Unit 11110201, at bridge on Interstate 40 near Mulberry.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
10.	1345	9827	9827	3.4	7.7	24.0	2.6	--	0.9
NOV									
07.	0845	9827	9827	0.63	7.3	15.0	1.8	8.5	0.8
DEC									
12.	1530	9827	9827	2.7	7.6	5.0	2.0	--	0.9
JAN									
09.	1630	9827	9827	5.8	7.9	8.0	2.0	11.5	1.2
FEB									
14.	0804	9827	9827	567	7.6	11.0	10	--	0.4
MAR									
13.	1700	9827	9827	4020	7.4	15.0	15	9.9	1.4
APR									
10.	0750	9827	9827	888	7.9	13.0	6.8	9.9	0.8
MAY									
22.	1445	9827	9827	3630	7.4	20.0	20	9.1	0.5
JUL									
17.	1705	9827	9827	11	7.3	28.0	--	8.1	2.7
AUG									
21.	0957	9827	9827	6.0	7.5	30.0	--	8.0	1.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
10.	1345	20	4.0	2.8	--	3	0.050	<0.050	0.040
NOV									
07.	0845	20	--	--	31	2	<0.020	<0.050	<0.030
DEC									
12.	1530	24	4.0	4.1	44	1	<0.020	<0.050	<0.030
JAN									
09.	1630	20	--	3.6	32	<1	<0.020	<0.050	0.040
FEB									
14.	0804	12	3.0	--	--	15	0.160	<0.050	0.050
MAR									
13.	1700	14	2.0	2.4	--	4	0.080	<0.050	0.080
APR									
10.	0750	14	4.0	2.2	25	2	0.050	<0.050	0.090
MAY									
22.	1445	8	4.0	2.3	28	15	0.080	0.050	0.050
JUL									
17.	1705	--	2.0	2.2	37	1	0.050	<0.050	<0.030
AUG									
21.	0957	16	4.0	2.9	33	3	0.050	0.130	0.070

07252030 MULBERRY RIVER AT I-40 NEAR MULBERRY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1345	--	<1	<1	--	<2	<10	1.6
NOV								
07.	0845	<0.030	<1	<1	<15	<2	<10	2.1
DEC								
12.	1530	<0.030	<1	<1	20	<2	<10	1.6
JAN								
09.	1630	<0.030	--	--	--	--	--	--
FEB								
14.	0804	<0.030	--	--	--	--	--	1.1
MAR								
13.	1700	<0.030	--	--	--	--	--	2.0
APR								
10.	0750	<0.030	--	--	--	--	--	1.0
MAY								
22.	1445	<0.030	--	--	--	--	--	1.9
JUL								
17.	1705	<0.030	--	--	--	--	--	3.2
AUG								
21.	0957	<0.030	--	--	--	--	--	1.2

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, ARKANSAS

LOCATION.--Lat 35°28'21", long 93°48'46", in SW ¼ sec.6, T.9 N., R.26 W., Franklin County, Hydrologic Unit 11110201, at Ozark Dam 1.0 mi southeast of Ozark, and at mile 272.9.

DRAINAGE AREA.--151,801 mi², of which 22,241 mi² 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.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1315	9827	9827	8.5	22.0	20	--	1.6	140
NOV									
07.	0945	9827	9827	8.4	15.0	10	9.9	1.2	160
DEC									
12.	1450	9827	9827	8.5	2.0	5.0	12.0	1.9	160
JAN									
09.	1545	9827	9827	8.6	6.0	3.0	15.1	2.5	160
FEB									
14.	0736	9827	9827	7.5	11.0	45	--	1.3	110
MAR									
13.	1635	9827	9827	7.8	15.0	80	9.6	2.2	130
APR									
10.	0715	9827	9827	7.9	14.0	50	10.0	1.0	130
MAY									
22.	1413	9827	9827	7.6	23.0	85	7.6	1.1	84
JUN									
12.	1410	9827	9827	7.9	28.0	--	7.9	0.4	100
JUL									
17.	1625	9827	9827	8.1	29.0	--	7.9	2.1	--
AUG									
21.	0923	9827	9827	8.6	30.0	--	8.9	1.1	160
SEP									
11.	1439	9827	9827	8.5	24.0	--	7.2	1.1	170

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
10.	1315	55	94	--	18	0.340	<0.050	0.110
NOV								
07.	0945	--	--	437	12	0.200	<0.050	0.100
DEC								
12.	1450	64	120	434	8	0.240	<0.050	0.100
JAN								
09.	1545	--	100	426	6	0.120	<0.030	0.120
FEB								
14.	0736	58	--	--	53	0.310	<0.050	0.130
MAR								
13.	1635	48	82	298	77	0.340	0.060	0.220
APR								
10.	0715	48	62	282	41	0.490	0.160	0.150
MAY								
22.	1413	27	29	191	76	0.530	0.100	0.180
JUN								
12.	1410	31	23	197	58	0.480	0.050	0.140
JUL								
17.	1625	50	66	282	9	0.160	<0.050	0.050
AUG								
21.	0923	61	110	380	10	<0.020	<0.050	0.060
SEP								
11.	1439	63	--	441	15	<0.020	<0.050	--

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1315	--	<1	<1	--	<2	<10	5.9
NOV								
07.	0945	0.030	<1	1	<15	<2	<10	4.0
DEC								
12.	1450	<0.030	<1	<1	20	<2	<10	8.1
JAN								
09.	1545	<0.030	--	--	--	--	--	--
FEB								
14.	0736	<0.030	--	--	--	--	--	5.7
MAR								
13.	1635	0.060	--	--	--	--	--	7.3
APR								
10.	0715	0.060	--	--	--	--	--	7.4
MAY								
22.	1413	0.060	--	--	--	--	--	7.6
JUN								
12.	1410	0.080	--	--	--	--	--	6.7
JUL								
17.	1625	<0.030	--	--	--	--	--	6.3
AUG								
21.	0923	<0.030	--	--	--	--	--	4.7
SEP								
11.	1439	<0.030	--	--	--	--	--	--

07256040 SHORT MOUNTAIN CREEK WEST OF PARIS, ARKANSAS

LOCATION.--Lat 35°17'32", long 93°44'16", in SW ¼ NW ¼ sec.11, T.7 N., R.26 W., Logan County, Hydrologic Unit 11110202, at bridge on State Highway 22, 0.5 mi east of Paris.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	1415	9827	9827	7.6	20.0	2.2	--	0.5	32
NOV 07.	1045	9827	9827	7.4	15.0	1.6	8.2	1.4	22
DEC 12.	1410	9827	9827	7.6	3.0	3.0	12.2	0.7	24
JAN 09.	1500	9827	9827	7.4	9.0	2.5	11.1	0.6	20
FEB 13.	1747	9827	9827	7.8	13.0	15	--	0.7	12
MAR 13.	1555	9827	9827	7.2	17.0	25	9.4	1.7	12
APR 10.	1530	9827	9827	7.7	15.0	7.1	9.8	0.8	12
MAY 22.	1325	9827	9827	7.6	23.0	30	8.5	1.8	10
JUN 12.	1331	9827	9827	7.4	30.0	--	7.8	0.2	12
JUL 17.	1545	9827	9827	7.1	27.0	--	8.3	1.5	--
AUG 21.	0830	9827	9827	7.6	27.0	--	7.4	1.2	24
SEP 11.	1348	9827	9827	7.6	25.0	--	7.1	0.8	24

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1415	5.0	2.9	--	1	0.050	<0.050	0.35	<0.030
NOV 07.	1045	--	--	40	2	<0.020	<0.050	0.48	<0.030
DEC 12.	1410	6.0	4.0	43	2	<0.020	<0.050	0.38	<0.030
JAN 09.	1500	--	4.6	28	<1	0.030	<0.050	0.40	0.040
FEB 13.	1747	4.0	--	--	10	0.240	<0.050	0.43	0.070
MAR 13.	1555	3.0	3.1	--	11	0.140	<0.050	0.76	0.070
APR 10.	1530	3.0	2.5	27	5	0.030	<0.050	0.37	0.070
MAY 22.	1325	5.0	2.6	114	16	0.040	<0.050	0.72	0.110
JUN 12.	1331	3.0	2.2	41	5	0.060	0.100	0.42	<0.030
JUL 17.	1545	2.0	2.3	45	3	0.040	0.050	1.2	<0.030
AUG 21.	0830	6.0	3.3	40	2	0.070	0.120	0.30	0.030
SEP 11.	1348	1.0	3.2	47	7	0.050	<0.050	--	--

07256040 SHORT MOUNTAIN CREEK WEST OF PARIS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1415	--	--	<1	--	<2	<10	2.6
NOV								
07.	1045	<0.030	<1	1	<15	<2	<10	3.1
DEC								
12.	1410	<0.030	<1	<1	17	<2	<10	2.3
JAN								
09.	1500	0.030	--	--	--	--	--	--
FEB								
13.	1747	<0.030	--	--	--	--	--	2.8
MAR								
13.	1555	<0.030	--	--	--	--	--	4.5
APR								
10.	1530	<0.030	--	--	--	--	--	2.3
MAY								
22.	1325	<0.030	--	--	--	--	--	3.6
JUN								
12.	1331	0.040	--	--	--	--	--	3.2
JUL								
17.	1545	<0.030	--	--	--	--	--	4.2
AUG								
21.	0830	<0.030	--	--	--	--	--	2.5
SEP								
11.	1348	<0.030	--	--	--	--	--	--

07256046 SHORT MOUNTAIN CREEK NORTH OF PARIS, ARKANSAS

LOCATION.--Lat 35°13'43", long 93°44'37", in NW ¼ NE ¼ sec.3, T.7N, R.26 W., Logan County, Hydrologic Unit 11110202, at bridge on county road, 0.5 mi west of State Highway 109, 1.0 mi north of Paris.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	1445	9827	9827	7.8	19.0	35	--	--	52
NOV 07.	1020	9827	9827	7.4	16.0	3.8	1.1	2.1	70
DEC 12.	1430	9827	9827	7.4	3.0	7.0	7.3	1.3	56
JAN 09.	1520	9827	9827	7.8	7.0	10	11.9	7.9	50
FEB 13.	1801	9827	9827	7.6	14.0	15	--	1.0	16
MAR 13.	1610	9827	9827	7.2	17.0	25	9.4	1.7	12
APR 10.	1544	9827	9827	7.6	15.0	15	9.7	1.4	12
MAY 22.	1341	9827	9827	7.4	22.0	30	8.4	1.8	14
JUN 12.	1339	9827	9827	7.4	28.0	--	7.5	3.2	30
JUL 17.	1600	9827	9827	7.2	25.0	--	3.7	6.2	--
AUG 21.	0854	9827	9827	7.4	27.0	--	1.4	0.4	62
SEP 11.	1407	9827	9827	7.4	24.0	--	1.2	1.5	56

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1445	31	22	--	38	0.210	<0.050	2.8	3.50
NOV 07.	1020	--	--	222	5	<0.020	<0.050	0.82	0.680
DEC 12.	1430	44	9.9	190	13	0.200	0.060	0.54	0.290
JAN 09.	1520	--	14	173	15	0.500	<0.050	1.5	1.45
FEB 13.	1801	9.0	--	--	14	0.360	<0.050	0.52	0.140
MAR 13.	1610	7.0	3.5	--	11	0.250	<0.050	0.59	0.120
APR 10.	1544	5.0	3.0	37	13	0.120	0.140	0.56	0.090
MAY 22.	1341	7.0	2.8	48	41	0.060	0.050	0.56	0.080
JUN 12.	1339	19	4.8	95	28	0.120	0.070	1.1	0.280
JUL 17.	1600	52	13	221	25	0.370	0.540	1.8	0.630
AUG 21.	0854	43	11	218	13	0.170	<0.050	0.60	0.640
SEP 11.	1407	43	12	235	16	1.10	0.250	--	--

07256046 SHORT MOUNTAIN CREEK NORTH OF PARIS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1445	--	<1	<1	--	<2	<10	14
NOV								
07.	1020	0.500	<1	1	<15	<2	<10	9.2
DEC								
12.	1430	0.160	<1	<1	17	2	<10	3.5
JAN								
09.	1520	1.12	--	--	--	--	--	--
FEB								
13.	1801	0.060	--	--	--	--	--	3.3
MAR								
13.	1610	0.040	--	--	--	--	--	4.5
APR								
10.	1544	0.030	--	--	--	--	--	2.4
MAY								
22.	1341	<0.030	--	--	--	--	--	4.9
JUN								
12.	1339	0.170	--	--	--	--	--	6.2
JUL								
17.	1600	0.220	--	--	--	--	--	10
AUG								
21.	0854	0.290	--	--	--	--	--	10
SEP								
11.	1407	0.360	--	--	--	--	--	--

07257000 BIG PINEY CREEK NEAR DOVER, ARKANSAS

LOCATION.--Lat 35°32'58", long 93°09'30", in SW ¼ NE ¼ sec.6, T.10 N., R.20 W., Pope County, Hydrologic Unit 11110202, on left bank 7.2 mi downstream from Indian Creek, 10.4 mi north of Dover, and at mile 28.0.

DRAINAGE AREA.--274 mi².

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--40 years, 407 ft³/s, 20.17 in/yr, 294,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111,000 ft³/s Dec. 3, 1982, gage height, 33.87 ft, from rating curve extended above 45,000 ft³/s on basis of contracted-opening measurement of peak flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 24, 1949, reached a stage of 25.6 ft, from floodmarks, discharge about 55,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 01	2000	15,300	13.92	May 03	1015	*59,300	*26.12
Mar. 08	0400	8,650	10.61	May 19	2130	11,400	12.09
Mar. 15	0400	12,000	12.40				

Minimum discharge, 0.71 ft³/s Sept. 10, gage height, 0.91 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	1.4	5.1	12	6560	898	1100	957	1140	26	37	1.3
2	4.5	1.7	5.5	14	4720	906	913	6080	959	21	34	1.5
3	4.6	1.6	5.5	17	2120	808	777	26700	810	18	28	1.0
4	5.2	1.6	5.5	29	1460	707	688	6030	640	14	25	.87
5	4.2	1.6	5.5	42	1080	628	623	2900	513	12	26	.81
6	3.3	1.6	5.5	38	895	561	565	1880	423	10	24	.76
7	2.9	2.4	5.7	28	740	1860	477	1350	341	8.7	18	.75
8	2.7	2.5	5.9	23	617	5680	428	1060	273	7.1	15	.73
9	2.7	2.1	5.6	20	555	2520	389	878	216	6.9	13	.73
10	2.3	1.7	5.7	18	633	1720	1130	729	173	5.5	11	.73
11	2.1	1.6	5.8	14	583	1330	1320	614	144	5.0	10	.75
12	1.6	1.7	5.8	13	510	4320	1010	628	123	6.2	13	.75
13	1.5	1.6	5.8	12	460	2410	865	561	100	4.5	14	.75
14	1.4	2.0	5.8	11	423	3230	803	464	83	3.5	13	.75
15	1.2	1.9	5.3	11	533	6830	714	400	71	2.9	12	.75
16	1.2	1.6	5.2	11	752	2710	795	338	61	2.8	14	.76
17	1.3	1.4	5.5	63	617	1840	3060	571	53	2.7	15	.74
18	1.2	1.2	4.8	380	549	1380	2520	490	45	2.4	13	.73
19	1.2	1.4	5.5	2230	502	1180	1830	2390	39	1.9	12	.74
20	.94	1.5	5.5	3230	443	915	3140	6480	33	1.7	11	.92
21	1.0	1.5	5.5	762	397	740	4110	3450	32	1.5	10	1.6
22	1.2	2.2	5.5	502	667	661	2650	2180	41	8.3	8.6	1.8
23	.85	2.5	5.5	499	793	571	3290	1440	149	61	7.5	1.1
24	.76	2.5	5.5	391	683	501	1800	1060	81	36	7.5	1.0
25	.76	3.4	5.5	307	593	481	1300	822	56	25	9.0	5.4
26	.81	3.9	5.5	233	532	428	1070	792	46	198	6.5	7.8
27	.96	4.3	5.3	194	497	390	1170	1900	42	324	3.6	6.5
28	1.0	4.5	5.3	166	475	459	1410	1580	40	131	2.8	5.8
29	.99	4.5	7.6	180	---	763	1150	1090	34	75	2.0	4.9
30	1.1	4.6	10	182	---	1120	949	1100	29	58	1.6	8.7
31	1.2	---	10	162	---	1310	---	1440	---	44	1.4	---
TOTAL	61.67	68.0	181.7	9794	29389	49857	42046	78354	6790	1124.6	418.5	61.42
MEAN	1.99	2.27	5.86	316	1050	1608	1402	2528	226	36.3	13.5	2.05
MAX	5.2	4.6	10	3230	6560	6830	4110	26700	1140	324	37	8.7
MIN	.76	1.2	4.8	11	397	390	389	338	29	1.5	1.4	.73
AC-FT	122	135	360	19430	58290	98890	83400	155400	13470	2230	830	122
CFSM	.01	.01	.02	1.15	3.83	5.87	5.12	9.22	.83	.13	.05	.01
IN.	.01	.01	.02	1.33	3.99	6.77	5.71	10.64	.92	.15	.06	.01

CAL YR 1989 TOTAL 140413.51 MEAN 385 MAX 10700 MIN .65 AC-FT 278500 CFSM 1.40 IN. 19.06
WTR YR 1990 TOTAL 218145.89 MEAN 598 MAX 26700 MIN .73 AC-FT 432700 CFSM 2.18 IN. 29.62

07257006 BIG PINEY CREEK AT HIGHWAY 164 NEAR DOVER, ARKANSAS

LOCATION.--Lat 35°30'48", long 93°10'24", in SE ¼ NW ¼ sec.25, T.9 N., R.20 W., Pope County, Hydrologic Unit 11110202, at bridge on State Highway 164 near Dover.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1100	9827	9827	2.5	7.6	19.0	1.5	8.5	1.1
NOV 07.	0915	9827	9827	2.6	7.6	17.0	1.0	8.5	0.9
DEC 12.	0950	9827	9827	6.3	7.6	1.0	2.0	12.9	0.6
JAN 09.	1031	9827	9827	22	7.8	6.0	2.5	12.1	0.7
FEB 13.	1007	9827	9827	497	7.6	11.0	6.8	10.8	0.3
MAR 06.	1000	9827	9827	606	--	11.0	5.5	11.3	0.3
APR 03.	0954	9827	9827	839	7.5	13.0	6.1	10.7	0.4
MAY 01.	1155	9827	9827	1030	7.4	15.0	6.6	9.5	0.4
JUN 26.	1143	9827	9827	50	7.5	25.0	--	8.5	1.6
JUL 17.	1152	9827	9827	2.9	7.5	28.0	--	9.9	2.0
AUG 14.	1208	9827	9827	14	8.0	29.0	--	10.0	1.7
SEP 18.	1237	9827	9827	0.79	7.4	25.0	--	8.2	0.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1100	28	3.0	2.3	28	<1	<0.020	<0.050	<0.030
NOV 07.	0915	24	2.0	3.2	37	<1	<0.020	<0.050	<0.030
DEC 12.	0950	20	4.0	3.1	34	2	<0.020	<0.050	<0.030
JAN 09.	1031	22	4.0	2.7	32	<1	<0.020	<0.050	<0.030
FEB 13.	1007	12	1.0	3.1	--	5	0.100	<0.050	0.030
MAR 06.	1000	12	6.0	2.5	43	1	0.050	<0.050	0.070
APR 03.	0954	12	1.0	2.3	34	<1	0.070	0.050	<0.030
MAY 01.	1155	12	2.0	<1.4	34	2	0.040	<0.050	0.030
JUN 26.	1143	28	2.0	1.4	38	2	<0.020	<0.050	0.030
JUL 17.	1152	38	1.0	2.0	36	2	0.030	--	<0.030
AUG 14.	1208	24	2.0	3.0	31	1	0.030	0.070	<0.030
SEP 18.	1237	24	4.0	3.8	41	--	<0.020	<0.050	<0.030

07257006 BIG PINEY CREEK AT HIGHWAY 164 NEAR DOVER, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1100	<0.030	<1	<1	<15	<2	<10	1.7
NOV								
07.	0915	<0.030	<1	--	<15	<2	--	2.3
DEC								
12.	0950	<0.030	<1	<1	<15	<2	--	1.5
JAN								
09.	1031	<0.030	--	--	--	--	--	1.3
FEB								
13.	1007	<0.050	--	--	--	--	--	1.4
MAR								
06.	1000	<0.030	--	--	--	--	--	0.5
APR								
03.	0954	0.030	--	--	--	--	--	1.1
MAY								
01.	1155	<0.030	--	--	--	--	--	1.0
JUN								
26.	1143	<0.030	--	--	--	--	--	2.0
JUL								
17.	1152	0.040	--	--	--	--	--	2.3
AUG								
14.	1208	<0.030	--	--	--	--	--	1.8
SEP								
18.	1237	--	--	--	--	--	--	1.9

07257690 ILLINOIS BAYOU NEAR DOVER, ARKANSAS

LOCATION.--Lat 35°24'36", long 93°06'00", in SW ¼ SW ¼ sec.21, T.8 N., R.20 W., Pope County, Hydrologic Unit 11110202, at bridge on State Highway 7, 2.0 mi northwest of Dover.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1015	9827	9827	7.2	19.0	2.3	8.1	0.9	16
NOV									
07.	0850	9827	9827	7.2	17.0	1.8	7.6	0.9	16
DEC									
12.	0917	9827	9827	7.4	1.0	3.5	12.4	0.7	22
JAN									
09.	1000	9827	9827	7.5	5.0	4.0	11.9	1.3	16
FEB									
13.	0940	9827	9827	7.3	11.0	7.2	10.7	0.2	12
MAR									
06.	0930	9827	9827	--	11.0	5.5	11.0	0.3	10
APR									
03.	0927	9827	9827	7.6	12.0	6.6	10.4	0.5	12
MAY									
01.	1126	9827	9827	7.3	16.0	7.0	9.3	0.4	12
JUN									
26.	1120	9827	9827	7.3	25.0	--	7.8	1.2	4
JUL									
17.	1130	9827	9827	7.2	27.0	--	8.8	1.7	50
AUG									
14.	1150	9827	9827	7.5	28.0	--	8.8	1.4	14
SEP									
18.	1210	9827	9827	7.1	26.0	--	7.5	0.9	10

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
10.	1015	3.0	3.3	24	7	<0.020	<0.050	<0.030
NOV								
07.	0850	1.0	4.2	26	2	<0.020	<0.050	<0.030
DEC								
12.	0917	2.0	4.2	31	2	<0.020	<0.050	<0.030
JAN								
09.	1000	4.0	4.7	23	4	<0.020	<0.050	0.030
FEB								
13.	0940	1.0	3.0	--	4	0.140	<0.050	<0.030
MAR								
06.	0930	7.0	2.4	37	3	0.090	<0.050	0.070
APR								
03.	0927	1.0	2.3	33	2	0.100	0.060	<0.030
MAY								
01.	1126	1.0	<1.4	27	4	0.070	<0.050	0.030
JUN								
26.	1120	2.0	2.1	123	2	<0.020	<0.050	0.030
JUL								
17.	1130	<1.0	2.6	6	2	0.030	--	<0.030
AUG								
14.	1150	1.0	3.2	33	1	0.020	0.100	<0.030
SEP								
18.	1210	4.0	4.5	32	--	<0.020	<0.050	0.030

07257690 ILLINOIS BAYOU NEAR DOVER, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 10.	1015	<0.030	<1	<1	<15	<2	<10	1.4
NOV 07.	0850	<0.030	<1	--	<15	<2	--	1.8
DEC 12.	0917	<0.030	<1	<1	<15	<2	--	1.3
JAN 09.	1000	<0.030	--	--	--	--	--	1.8
FEB 13.	0940	<0.030	--	--	--	--	--	0.9
MAR 06.	0930	<0.030	--	--	--	--	--	0.5
APR 03.	0927	<0.030	--	--	--	--	--	1.5
MAY 01.	1126	<0.030	--	--	--	--	--	1.0
JUN 26.	1120	<0.030	--	--	--	--	--	2.2
JUL 17.	1130	0.040	--	--	--	--	--	2.2
AUG 14.	1150	<0.030	--	--	--	--	--	1.7
SEP 18.	1210	--	--	--	--	--	--	3.0

07258000 ARKANSAS RIVER AT DARDANELLE, ARKANSAS

LOCATION.--Lat 35°13'34", long 93°08'58", in SW ¼ 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 upstream from Whig Creek, 2.0 mi downstream from Dardanelle Dam, 4.7 mi downstream from Illinois Bayou, and at mile 219.5.

DRAINAGE AREA.--153,670 mi², of which 22,241 mi² 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. Datum of gage is 280.16 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 11, 1939, nonrecording gage at same site at datum 10.0 ft higher. Jan. 11, 1939, to Dec. 10, 1970, water-stage recorder at same site at datum 10.0 ft higher. Feb. 13, 1969, to May 16, 1985, totalizing flow meters on each turbine in Dardanelle Dam, 2.0 mi upstream.

REMARKS.--No estimated daily discharges. Water-discharge records good except for those below 45,000 ft³/s, which are fair. Flow regulated upstream by many locks, dams, and reservoirs. Satellite telemeter at station.

AVERAGE DISCHARGE.--53 years, 37,080 ft³/s, 26,860,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 683,000 ft³/s May 13, 14, 1943; maximum gage height, 43.60 ft, in gage well, 44.1 ft from outside gage, May 25, 1943, present datum; minimum daily discharge, 40 ft³/s Sept. 18, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 43.0 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 433,000 ft³/s May 4, gage height, 42.14 ft, from floodmarks; minimum daily, 50 ft³/s at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33400	24300	8540	4220	69800	77700	148000	158000	145000	41400	3770	2090
2	35900	28700	8240	1870	149000	102000	149000	200000	139000	40200	14200	1960
3	33600	25700	8330	7170	114000	106000	147000	343000	143000	36600	5880	5440
4	29500	19400	6440	14600	67800	95500	147000	419000	143000	36200	16800	8430
5	28900	14800	1950	7380	51600	83300	147000	410000	142000	35500	1090	9750
6	33400	22000	2630	9190	41100	77000	147000	410000	138000	34900	944	9640
7	37400	24000	50	4330	33300	91800	146000	391000	137000	29100	50	1390
8	20900	25300	4200	5540	40800	156000	150000	333000	128000	20900	8780	50
9	17700	25000	50	1990	42100	142000	147000	278000	127000	26000	9500	1600
10	19200	11400	1320	5700	37900	126000	149000	249000	123000	23800	6000	2710
11	26600	50	9350	9380	36100	114000	158000	230000	105000	26500	2240	3100
12	30200	50	10600	18200	41800	142000	151000	221000	90500	23100	3960	2650
13	29400	5460	4010	9690	37800	165000	145000	209000	82400	25400	19800	2600
14	20300	3350	4060	50	33700	185000	152000	175000	73300	12700	7020	2550
15	21700	11200	6010	627	46400	200000	131000	157000	58900	50	7020	288
16	29900	13000	573	1420	84900	174000	79200	148000	61500	1150	18800	50
17	12800	7980	1060	25300	81200	216000	124000	142000	55300	50	18900	369
18	50	50	2020	33400	71100	179000	156000	140000	61300	4370	1970	369
19	1170	110	2160	37900	50400	158000	169000	154000	62000	14000	3230	6430
20	850	5050	1310	102000	41700	149000	170000	172000	57700	1380	10400	7800
21	50	3250	5020	85600	42600	145000	214000	162000	59600	4640	14900	21500
22	1610	2580	7930	53500	42600	149000	223000	157000	59100	1380	15000	36700
23	914	1030	7010	41400	60200	150000	199000	146000	53700	2550	12700	26500
24	5710	1260	1060	41400	68500	150000	166000	140000	58200	8730	13000	4300
25	3820	50	50	41400	68800	150000	139000	142000	60300	5800	317	21900
26	4020	3790	171	41400	62400	150000	129000	135000	60100	7980	50	29800
27	4680	11700	2350	41400	59300	150000	140000	138000	53700	11800	9000	13600
28	50	14000	2970	41400	67500	156000	165000	145000	43200	5030	9300	15400
29	1380	7460	598	41400	---	162000	179000	145000	42100	3680	9700	4120
30	4230	3930	1560	40900	---	164000	170000	148000	30800	3290	7810	2260
31	16200	---	365	33600	---	164000	---	146000	---	10800	8980	---
TOTAL	505534	315950	111987	803357	1644400	4429300	4636200	6543000	2593700	498980	261111	245346
MEAN	16310	10530	3612	25910	58730	142900	154500	211100	86460	16100	8423	8178
MAX	37400	28700	10600	102000	149000	216000	223000	419000	145000	41400	19800	36700
MIN	50	50	50	50	33300	77000	79200	135000	30800	50	50	50
AC-FT	1003000	626700	222100	1593000	3262000	8786000	9196000	12980000	5145000	989700	517900	486600

CAL YR 1989 TOTAL 13457711 MEAN 36870 MAX 191000 MIN 50 AC-FT 26690000
WTR YR 1990 TOTAL 22588865 MEAN 61890 MAX 419000 MIN 50 AC-FT 44810000

07258000 ARKANSAS RIVER AT DARDANELLE, ARKANSAS--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 September 1989.
SUSPENDED SEDIMENT DISCHARGE: October 1967 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum daily, 34.0°C Aug. 17, 1952, July 17, 1980; minimum daily, 0.0°C on several days during winter months.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1159	9827	9827	19200	8.4	21.0	15	8.5	1.3
NOV 07.	1030	9827	9827	29200	8.5	17.0	10	9.3	1.5
DEC 12.	1052	9827	9827	13900	8.7	6.0	6.0	11.1	2.0
JAN 09.	1138	9827	9827	8930	8.5	6.0	3.0	12.9	1.6
FEB 13.	1104	9827	9827	42100	7.5	11.0	35	8.8	--
MAR 06.	1110	9827	9827	47600	--	11.0	40	13.5	1.1
APR 03.	1052	9827	9827	42500	7.8	14.0	60	12.4	0.7
MAY 01.	1310	9827	9827	43200	7.7	17.0	75	10.2	1.3
JUN 26.	1257	9827	9827	47300	8.1	28.0	--	9.4	1.7
JUL 17.	1303	9827	9827	30400	8.5	29.0	--	10.5	4.8
AUG 14.	1322	9827	9827	14800	8.3	29.0	--	6.9	1.0
SEP 18.	1352	9827	9827	50	8.7	29.0	--	10.3	2.0

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1159	130	53	92	330	17	0.380	<0.050	0.100
NOV 07.	1030	160	79	130	473	15	0.120	<0.050	0.100
DEC 12.	1052	160	71	140	460	12	<0.020	<0.050	0.080
JAN 09.	1138	170	78	120	456	5	<0.020	<0.050	0.080
FEB 13.	1104	110	47	85	--	26	0.430	<0.050	0.110
MAR 06.	1110	120	52	93	347	34	0.270	<0.050	0.170
APR 03.	1052	110	40	46	270	49	0.510	0.090	0.130
MAY 01.	1310	92	32	44	224	70	0.420	<0.050	0.200
JUN 26.	1257	110	43	44	221	30	0.270	<0.050	0.120
JUL 17.	1303	130	49	64	257	17	0.020	--	0.110
AUG 14.	1322	130	43	61	271	10	0.100	<0.050	0.070
SEP 18.	1352	150	59	98	349	--	<0.020	0.050	0.090

07258000 ARKANSAS RIVER AT DARDANELLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1159	0.050	<1	<1	<15	<2	<10	5.5
NOV								
07.	1030	0.030	<1	--	<15	<2	--	5.7
DEC								
12.	1052	<0.030	<1	<1	<15	2	--	5.2
JAN								
09.	1138	<0.030	--	--	--	--	--	7.3
FEB								
13.	1104	<0.030	--	--	--	--	--	5.2
MAR								
06.	1110	0.050	--	--	--	--	--	5.7
APR								
03.	1052	0.110	--	--	--	--	--	7.0
MAY								
01.	1310	0.080	--	--	--	--	--	7.8
JUN								
26.	1257	0.030	--	--	--	--	--	6.7
JUL								
17.	1303	0.040	--	--	--	--	--	8.1
AUG								
14.	1322	<0.030	--	--	--	--	--	5.5
SEP								
18.	1352	--	--	--	--	--	--	4.6

07258015 WHIG CREEK NEAR DARDANELLE, ARKANSAS

LOCATION.--Lat 35°13'43", long 93°08'37", in SE ¼ Ne ¼ sec.29, T.7 N., R.20 W., Pope County, Hydrologic Unit 11110203, at bridge on State Highway 7, and 0.7 mi northeast of Dardanelle.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	1145	9827	9827	7.4	18.0	5.8	6.2	1.5	72
NOV 07.	1020	9827	9827	7.1	19.0	6.4	3.1	2.8	80
DEC 12.	1043	9827	9827	6.6	5.0	10	8.1	1.7	86
JAN 09.	1126	9827	9827	6.8	8.0	9.0	7.4	5.0	74
FEB 13.	1055	9827	9827	6.8	14.0	15	7.2	3.2	66
MAR 06.	1055	9827	9827	--	13.0	15	7.7	--	72
APR 03.	1045	9827	9827	6.9	14.0	15	8.6	1.5	70
MAY 01.	1306	9827	9827	7.2	17.0	75	--	4.2	82
JUN 26.	1246	9827	9827	7.3	24.0	--	3.5	8.1	82
JUL 17.	1250	9827	9827	7.6	24.0	--	5.6	1.3	110
AUG 14.	1312	9827	9827	7.4	25.0	--	4.6	1.1	62
SEP 18.	1341	9827	9827	7.3	24.0	--	4.2	1.2	76

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1145	71	69	365	7	8.90	0.070	1.5	6.30
NOV 07.	1020	96	78	417	8	14.0	1.36	1.5	6.70
DEC 12.	1043	79	82	419	12	23.0	1.43	2.7	6.50
JAN 09.	1126	78	74	377	13	14.0	1.96	3.8	6.20
FEB 13.	1055	49	18	--	15	7.10	0.760	1.2	1.90
MAR 06.	1055	52	20	189	12	5.00	0.070	1.3	2.10
APR 03.	1045	48	16	178	17	4.40	0.340	1.0	1.32
MAY 01.	1306	42	18	201	104	3.70	0.370	0.96	1.44
JUN 26.	1246	66	66	348	18	1.60	4.50	--	6.20
JUL 17.	1250	56	66	416	17	12.0	--	--	6.90
AUG 14.	1312	28	64	383	15	16.0	<0.050	1.3	7.60
SEP 18.	1341	55	62	380	--	11.0	0.100	1.7	0.400

07258015 WHIG CREEK NEAR DARDANELLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 10.	1145	6.10	<1	<1	<15	<2	30	7.5
NOV 07.	1020	7.00	<1	--	21	<2	--	8.1
DEC 12.	1043	6.60	<1	1	<15	<2	--	9.1
JAN 09.	1126	5.50	--	--	--	--	--	15
FEB 13.	1055	1.44	--	--	--	--	--	6.4
MAR 06.	1055	1.66	--	--	--	--	--	5.1
APR 03.	1045	1.12	--	--	--	--	--	6.6
MAY 01.	1306	1.10	--	--	--	--	--	10
JUN 26.	1246	5.05	--	--	--	--	--	19
JUL 17.	1250	5.80	--	--	--	--	--	8.5
AUG 14.	1312	7.55	--	--	--	--	--	9.0
SEP 18.	1341	--	--	--	--	--	--	9.5

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, ARKANSAS

LOCATION.--Lat 35°06'25", long 93°55'25", in NW ¼ NW ¼ sec.18, T.5 N., R.27 W., Logan County, Hydrologic Unit 11110204, on right bank at downstream side of bridge on Sate Highway 23, 0.5 mi downstream from Fletcher Creek, 2.3 mi south of Booneville, and at mile 102.3.

DRAINAGE AREA.--241 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
10...	1348	9827	9827	0.30	7.4	20.0	8.5	--	2.0
NOV									
07...	1130	9827	9827	0.0	7.3	17.0	4.0	1.2	6.3
DEC									
12...	1330	9827	9827	0.40	7.5	4.0	5.0	6.9	4.2
JAN									
09...	1420	9827	9827	0.40	7.6	9.0	5.5	7.8	2.5
FEB									
13...	1704	9827	9827	305	7.6	13.0	30	--	0.6
MAR									
13...	1505	9827	9827	850	7.3	22.0	40	8.9	2.0
APR									
10...	1448	9827	9827	490	7.7	15.0	40	9.2	1.6
MAY									
22...	1244	9827	9827	600	7.4	21.5	40	7.7	1.3
JUN									
12...	1231	9827	9827	170	7.1	27.0	--	6.7	1.0
JUL									
17...	1500	9827	9827	0.70	7.3	26.0	--	6.0	3.4
AUG									
21...	1631	9827	9827	0.50	7.5	32.0	--	4.9	2.7
SEP									
11...	1259	9827	9827	0.40	7.5	24.0	--	4.1	1.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
10...	1348	34	8.0	4.5	--	16	<0.020	<0.050	--
NOV									
07...	1130	52	--	--	86	8	<0.020	<0.050	1.2
DEC									
12...	1330	60	7.0	6.6	94	7	<0.020	0.050	0.82
JAN									
09...	1420	36	--	5.3	64	5	<0.020	<0.050	0.52
FEB									
13...	1704	14	9.0	--	--	14	0.230	<0.050	--
MAR									
13...	1505	16	6.0	3.9	--	26	0.190	<0.050	0.71
APR									
10...	1448	22	8.0	4.0	64	23	0.070	0.050	0.62
MAY									
22...	1244	14	9.0	3.3	58	35	0.120	<0.050	0.56
JUN									
12...	1231	16	8.0	3.0	60	25	0.140	0.050	0.70
JUL									
17...	1500	--	7.0	4.9	72	5	0.020	<0.050	1.1
AUG									
21...	1631	36	7.0	6.6	75	6	0.050	0.120	0.41
SEP									
11...	1259	38	7.0	5.8	81	17	<0.020	<0.050	--

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
10...	1348	0.060	--	<1	<1	--	<2	<10	4.1
NOV									
07...	1130	0.090	<0.030	<1	1	<15	2	10	9.0
DEC									
12...	1330	0.090	<0.030	<1	<1	15	2	<10	8.5
JAN									
09...	1420	0.050	<0.030	--	--	--	--	--	--
FEB									
13...	1704	0.070	<0.030	--	--	--	--	--	3.7
MAR									
13...	1505	0.120	0.030	--	--	--	--	--	6.3
APR									
10...	1448	0.090	<0.030	--	--	--	--	--	4.8
MAY									
22...	1244	0.120	<0.030	--	--	--	--	--	6.1
JUN									
12...	1231	0.110	0.040	--	--	--	--	--	7.2
JUL									
17...	1500	<0.030	<0.030	--	--	--	--	--	5.4
AUG									
21...	1631	--	0.160	--	--	--	--	--	4.0
SEP									
11...	1259	--	<0.030	--	--	--	--	--	--

07260020 DUTCH CREEK AT SHARK, ARKANSAS

LOCATION.--Lat 34°59'58", long 93°30'52", in SE ¼ NE ¼ sec.14, T.4 N., R.24 W., Yell County, Hydrologic Unit 11110204, on paved road 0.9 mi north of Highway 80 at Shark, and 2.0 mi west of Macedonia.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1300	9827	9827	6.6	7.0	19.0	7.6	4.0	1.9
NOV 07.	1136	9827	9827	7.5	7.0	15.0	3.2	0.2	3.9
DEC 12.	1156	9827	9827	9.2	7.3	4.0	8.0	6.2	1.2
JAN 09.	1239	9827	9827	12	7.5	9.0	8.0	8.6	2.9
FEB 13.	1204	9827	9827	123	7.4	13.0	20	9.6	1.4
MAR 06.	1211	9827	9827	100	--	12.0	15	10.0	0.7
APR 03.	1202	9827	9827	115	7.4	15.0	15	9.6	0.9
MAY 01.	1411	9827	9827	164	6.9	17.0	40	9.1	1.9
JUN 26.	1404	9827	9827	20	6.9	25.0	--	4.2	1.2
JUL 17.	1405	9827	9827	16	7.0	24.0	--	3.8	1.9
AUG 14.	0950	9827	9827	12	7.2	26.0	--	2.2	2.3
SEP 18.	1455	9827	9827	3.3	7.4	24.0	--	3.8	1.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1300	24	6.0	4.8	44	5	0.130	<0.050	0.050
NOV 07.	1136	38	4.0	5.9	64	6	<0.020	<0.050	0.050
DEC 12.	1156	40	6.0	7.2	67	2	<0.020	0.050	0.070
JAN 09.	1239	32	5.0	7.3	52	8	<0.020	<0.050	0.070
FEB 13.	1204	18	5.0	3.9	--	10	0.590	<0.050	0.060
MAR 06.	1211	14	10	3.8	51	6	0.360	<0.050	0.100
APR 03.	1202	12	5.0	3.3	30	5	0.380	0.060	0.050
MAY 01.	1411	12	5.0	2.6	50	44	0.390	<0.050	0.130
JUN 26.	1404	20	6.0	5.0	86	6	0.130	0.100	0.070
JUL 17.	1405	48	3.0	5.8	65	5	0.070	--	0.050
AUG 14.	0950	24	3.0	4.7	53	4	0.080	0.100	0.050
SEP 18.	1455	34	6.0	6.1	83	--	0.060	<0.050	0.130

07260020 DUTCH CREEK AT SHARK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1300	<0.030	<1	<1	<15	<2	<10	3.5
NOV								
07.	1136	<0.030	<1	--	<15	<2	--	5.9
DEC								
12.	1156	<0.030	<1	<1	<15	2	--	4.9
JAN								
09.	1239	0.040	--	--	--	--	--	4.5
FEB								
13.	1204	<0.030	--	--	--	--	--	2.4
MAR								
06.	1211	<0.030	--	--	--	--	--	2.1
APR								
03.	1202	0.050	--	--	--	--	--	2.8
MAY								
01.	1411	0.040	--	--	--	--	--	5.0
JUN								
26.	1404	0.030	--	--	--	--	--	5.0
JUL								
17.	1405	0.080	--	--	--	--	--	5.5
AUG								
14.	0950	<0.030	--	--	--	--	--	4.9
SEP								
18.	1455	--	--	--	--	--	--	7.6

07260500 PETIT JEAN RIVER AT DANVILLE, ARKANSAS

LOCATION.--Lat 35°03'33", long 93°23'44", in NW ¼ SE ¼ sec.25, T.5 N., R.23 W., Yell County, Hydrologic Unit 11110204, on right bank 125 ft upstream of bridge on State Highway 10 at Danville, 0.3 mi upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 0.5 mi upstream from Spring Creek, 0.6 mi downstream from Dutch Creek, and at mile 48.8.

DRAINAGE AREA.--764 mi².

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 above National Geodetic Vertical datum of 1929. June 1, 1916, to Aug. 24, 1934, nonrecording gage on railroad bridge 0.3 mi downstream at datum 0.25 ft 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 downstream.

REMARKS.--Records good. Flow regulated since March 1947 by Blue Mountain Lake, 25.6 mi upstream, capacity, 257,900 acre-ft. As of July 1986, flow from 51.6 sq mi upstream from this station is controlled by 3-floodwater detention reservoirs that have a total combined capacity of 23,737 acre-ft below the spillway crests, of which 16,361 acre-ft is flood-detention capacity, 4,500 acre-ft is water-supply storage, and 2,876 acre-ft is sediment-storage capacity. Satellite telemeter at station.

AVERAGE DISCHARGE.--74 years, 833 ft³/s, 603,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,800 ft³/s Apr. 17, 1939, gage height, 31.82 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,600 ft³/s May 3, gage height, 27.99 ft; minimum, 2.1 ft³/s Aug. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	4.5	5.0	8.9	3690	1460	2350	2720	2490	2450	311	61
2	17	5.0	4.7	8.0	5890	1560	2460	6670	2230	1620	245	55
3	15	5.2	4.3	8.5	4950	1670	2380	24700	2610	1560	153	48
4	14	5.2	4.0	11	2750	1420	2410	23100	2370	1560	131	54
5	12	5.5	4.4	11	2000	1260	2530	12700	2190	1560	97	61
6	17	5.9	4.5	9.8	2390	692	2900	10200	2310	1520	85	59
7	18	5.1	4.8	8.4	3150	1700	2040	9190	2360	1380	52	60
8	14	4.7	5.3	7.6	3450	6380	1790	8390	2410	e1300	16	53
9	13	4.3	5.8	6.9	3720	7610	2160	7760	2510	1340	11	17
10	13	4.2	6.4	6.5	4210	3760	2480	7410	2500	1540	6.8	8.2
11	11	3.9	7.0	6.7	3690	2610	2430	7240	2430	1620	4.9	10
12	11	3.9	5.5	6.5	3160	2550	2340	7280	2400	1640	2.9	10
13	11	4.1	5.3	6.2	3160	1460	2320	7230	2440	1620	4.1	16
14	11	4.3	5.5	6.2	3350	2170	2380	7200	2440	1590	6.7	31
15	9.3	4.3	5.4	6.4	3290	3140	2330	7190	2460	1560	9.0	33
16	8.0	4.1	5.1	8.0	2560	2050	2220	6300	2460	1580	8.6	30
17	7.0	3.8	5.1	34	2940	1810	2820	3330	2410	1620	13	30
18	6.8	3.8	5.1	48	3240	1970	1840	1390	2380	1630	12	39
19	6.7	3.8	5.3	1960	3250	1900	2520	2000	2390	1610	9.0	46
20	6.2	3.7	5.5	4500	3170	2290	2910	3210	e2500	1590	5.5	74
21	6.0	3.5	5.4	2720	3210	2340	5920	3790	e2700	1550	4.1	123
22	5.5	4.8	5.1	792	3100	2410	9670	2140	e2600	e1500	3.4	162
23	5.3	5.8	4.8	1280	2380	2460	5930	1530	e2600	1540	17	130
24	5.2	5.9	4.8	2090	1690	2500	3350	2070	e2500	1530	27	123
25	5.1	4.4	5.1	2210	1200	2260	2660	2220	2410	1450	28	211
26	4.8	3.7	5.0	2190	994	1880	2620	2350	2340	1130	29	233
27	4.6	3.5	5.1	2200	611	2230	2800	2520	2360	847	28	230
28	4.5	4.9	5.2	2150	563	2840	2580	2190	2600	562	41	229
29	4.2	4.3	6.0	1990	---	3370	2140	1750	2560	357	57	230
30	4.5	5.3	7.3	1880	---	1850	1830	1910	2350	e290	62	243
31	4.5	---	9.6	1840	---	2250	---	2720	---	e250	59	---
TOTAL	299.2	135.4	167.4	28010.6	81758	75852	87110	190400	73310	42896	1539.0	2709.2
MEAN	9.65	4.51	5.40	904	2920	2447	2904	6142	2444	1384	49.6	90.3
MAX	24	5.9	9.6	4500	5890	7610	9670	24700	2700	2450	311	243
MIN	4.2	3.5	4.0	6.2	563	692	1790	1390	2190	250	2.9	8.2
AC-FT	593	269	332	55560	162200	150500	172800	377700	145400	85080	3050	5370

CAL YR 1989 TOTAL 376603.2 MEAN 1032 MAX 11200 MIN 3.5 AC-FT 747000
WTR YR 1990 TOTAL 584186.8 MEAN 1601 MAX 24700 MIN 2.9 AC-FT 1159000

e Estimated

07260620 CHICKALAH CREEK AT CHICKALAH, ARKANSAS

LOCATION.--Lat 35°09'36", long 93°17'32", in SW ¼ sec.24, T.6 N., R.22 W., Yell County, Hydrologic Unit 11110204, at bridge on State Highway 27, 0.5 mi upstream from Little Chickalah Creek and 1.0 mi southwest of Chickalah.

DRAINAGE AREA.--39.1 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1220	9827	9827	1.5	7.1	18.0	5.7	3.6	2.5
NOV 07.	1100	9827	9827	0.0	7.1	15.0	7.4	0.1	4.5
DEC 12.	1116	9827	9827	0.0	7.3	4.0	20	5.6	2.7
JAN 09.	1201	9827	9827	0.0	7.2	8.0	25	3.2	4.8
FEB 13.	1129	9827	9827	12	7.3	12.0	15	10.1	0.6
MAR 06.	1135	9827	9827	63	--	11.0	15	10.1	0.5
APR 03.	1126	9827	9827	66	7.4	13.0	15	10.2	0.7
MAY 01.	1333	9827	9827	108	6.8	15.0	40	8.8	1.2
JUN 26.	1326	9827	9827	32	7.0	25.0	--	5.1	0.9
JUL 17.	1330	9827	9827	4.0	7.2	28.0	--	2.0	2.5
AUG 14.	1345	9827	9827	--	7.3	26.0	--	2.3	2.6
SEP 18.	1416	9827	9827	0.0	7.3	24.0	--	2.5	1.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1220	34	4.0	5.9	49	9	<0.020	<0.050	0.050
NOV 07.	1100	46	3.0	6.5	76	6	<0.020	<0.050	0.070
DEC 12.	1116	58	5.0	7.0	89	8	<0.020	<0.050	0.040
JAN 09.	1201	42	6.0	8.2	64	15	<0.020	<0.050	0.080
FEB 13.	1129	12	4.0	3.6	--	8	0.480	<0.050	0.050
MAR 06.	1135	14	9.0	3.3	52	4	0.430	<0.050	0.090
APR 03.	1126	12	4.0	2.9	38	4	0.390	0.110	0.050
MAY 01.	1333	14	4.0	2.4	44	33	0.330	0.050	0.150
JUN 26.	1326	18	4.0	3.4	48	9	0.190	<0.050	0.080
JUL 17.	1330	42	4.0	3.4	38	9	0.100	--	0.050
AUG 14.	1345	50	2.0	5.1	38	9	0.030	0.140	0.090
SEP 18.	1416	50	5.0	6.0	83	--	<0.020	0.160	0.110

07260620 CHICKALAH CREEK AT CHICKALAH, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1220	<0.030	<1	<1	<15	<2	<10	3.2
NOV								
07.	1100	<0.030	<1	--	<15	<2	--	6.0
DEC								
12.	1116	<0.030	<1	<1	<15	<2	--	6.3
JAN								
09.	1201	<0.030	--	--	--	--	--	6.0
FEB								
13.	1129	<0.030	--	--	--	--	--	1.6
MAR								
06.	1135	<0.030	--	--	--	--	--	1.3
APR								
03.	1126	0.080	--	--	--	--	--	1.8
MAY								
01.	1333	<0.030	--	--	--	--	--	3.3
JUN								
26.	1326	<0.030	--	--	--	--	--	3.3
JUL								
17.	1330	0.060	--	--	--	--	--	6.4
AUG								
14.	1345	<0.030	--	--	--	--	--	5.7
SEP								
18.	1416	--	--	--	--	--	--	5.9

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, ARKANSAS

LOCATION.--Lat 35°07'26", long 92°47'11", in sec.35, T.6 N., R.17 W., Conway County, Hydrologic Unit 11110203, at Lock and Dam No. 9, 2.0 mi northwest of Oppelo, and at mile 193.0.

DRAINAGE AREA.--154,949 mi², of which 22,241 mi² is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1747	9827	9827	9300	8.6	22.0	9.5	9.7	2.5
NOV 07.	1600	9827	9827	20000	8.6	18.0	10	9.7	1.8
DEC 12.	1645	9827	9827	10100	8.8	6.0	5.0	13.0	2.9
JAN 09.	1726	9827	9827	2800	8.5	7.0	3.0	13.1	2.0
FEB 13.	1641	9827	9827	51500	7.5	13.0	35	10.0	1.2
MAR 06.	1646	9827	9827	83600	--	11.0	40	11.3	1.2
APR 03.	1630	9827	9827	154000	7.6	15.0	60	10.7	1.1
MAY 01.	0830	9827	9827	171000	7.7	17.0	60	9.0	0.8
JUN 26.	0815	9827	9827	69800	8.1	28.0	--	8.5	2.3
JUL 17.	0936	9827	9827	1500	8.1	28.0	--	8.5	1.9
AUG 14.	0841	9827	9827	7900	8.5	27.0	--	8.2	1.5
SEP 18.	0857	9827	9827	600	8.5	26.0	--	7.0	1.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1747	140	53	94	337	14	0.390	<0.050	0.110
NOV 07.	1600	160	82	120	455	16	0.100	<0.050	0.100
DEC 12.	1645	160	66	130	441	11	<0.020	<0.050	0.060
JAN 09.	1726	170	79	110	459	6	<0.020	<0.050	0.170
FEB 13.	1641	94	45	71	--	27	0.390	0.500	0.110
MAR 06.	1646	120	49	81	313	35	0.270	<0.050	0.170
APR 03.	1630	110	39	45	255	43	0.510	0.100	0.120
MAY 01.	0830	86	31	43	215	72	0.430	<0.050	0.190
JUN 26.	0815	110	42	43	222	25	0.250	<0.500	0.100
JUL 17.	0936	140	48	59	245	8	0.140	--	0.060
AUG 14.	0841	130	43	60	266	6	<0.020	<0.050	0.060
SEP 18.	0857	150	49	88	345	--	<0.020	<0.050	0.050

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1747	0.050	<1	<1	<15	<2	<10	5.6
NOV								
07.	1600	<0.030	<1	--	<15	<2	--	5.4
DEC								
12.	1645	<0.030	<1	<1	17	<2	--	5.2
JAN								
09.	1726	<0.030	--	--	--	--	--	5.2
FEB								
13.	1641	<0.030	--	--	--	--	--	4.7
MAR								
06.	1646	0.050	--	--	--	--	--	5.5
APR								
03.	1630	0.110	--	--	--	--	--	7.5
MAY								
01.	0830	0.080	--	--	--	--	--	7.9
JUN								
26.	0815	<0.030	--	--	--	--	--	6.1
JUL								
17.	0936	0.040	--	--	--	--	--	7.0
AUG								
14.	0841	<0.030	--	--	--	--	--	5.4
SEP								
18.	0857	--	--	--	--	--	--	4.3

07260675 WHITE OAK CREEK NEAR ATKINS, ARKANSAS

LOCATION.--Lat 35°15'16", long 92°53'38", in SW ¼ NE ¼ sec.15, T.7 N., R.18 W., Pope County, Hydrologic Unit 11110203, at bridge on county road, 0.4 mi from Union Grove Church, and 3.0 mi east of Atkins.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	0930	9827	9827	8.5	17.0	3.5	10.2	4.2	82
NOV 07.	0802	9827	9827	7.6	17.0	2.8	6.4	4.4	140
DEC 12.	0830	9827	9827	7.8	1.0	5.5	12.0	1.5	170
JAN 09.	0915	9827	9827	7.4	5.0	70	8.6	5.4	50
FEB 13.	0845	9827	9827	7.2	11.0	25	9.6	0.9	30
MAR 06.	0845	9827	9827	--	11.0	25	10.2	0.9	30
APR 03.	0845	9827	9827	7.2	11.0	25	10.9	1.3	28
MAY 01.	1046	9827	9827	7.2	16.0	30	8.7	1.3	34
JUN 26.	1030	9827	9827	7.5	25.0	--	5.5	3.7	110
JUL 17.	1042	9827	9827	7.6	26.0	--	5.9	3.1	140
AUG 14.	1059	9827	9827	7.6	26.0	--	5.5	2.3	150
SEP 18.	1129	9827	9827	8.8	23.0	--	8.0	3.4	120

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	0930	24	280	513	5	0.020	<0.050	1.3	0.090
NOV 07.	0802	57	290	700	6	<0.020	<0.050	0.60	0.070
DEC 12.	0830	56	370	839	9	0.020	<0.050	0.78	0.040
JAN 09.	0915	39	65	235	23	0.570	0.420	1.7	0.210
FEB 13.	0845	17	21	--	10	0.370	0.050	0.60	0.090
MAR 06.	0845	21	25	126	10	0.250	<0.050	0.64	0.120
APR 03.	0845	15	36	125	10	0.240	0.120	0.76	0.090
MAY 01.	1046	12	79	204	16	0.290	0.170	0.72	0.200
JUN 26.	1030	30	230	479	13	<0.020	<0.050	0.78	0.090
JUL 17.	1042	51	210	514	11	0.040	--	1.4	0.060
AUG 14.	1059	14	390	814	6	<0.020	0.120	0.60	0.050
SEP 18.	1129	27	310	740	--	<0.020	<0.050	0.60	0.040

07260675 WHITE OAK CREEK NEAR ATKINS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	0930	0.030	<1	<1	<15	<2	<10	9.9
NOV								
07.	0802	<0.030	<1	--	<15	<2	--	8.4
DEC								
12.	0830	<0.030	<1	<1	30	2	--	6.3
JAN								
09.	0915	0.080	--	--	--	--	--	11
FEB								
13.	0845	<0.030	--	--	--	--	--	4.6
MAR								
06.	0845	0.040	--	--	--	--	--	4.4
APR								
03.	0845	0.080	--	--	--	--	--	5.4
MAY								
01.	1046	0.090	--	--	--	--	--	7.2
JUN								
26.	1030	<0.030	--	--	--	--	--	9.0
JUL								
17.	1042	<0.030	--	--	--	--	--	9.7
AUG								
14.	1059	<0.030	--	--	--	--	--	8.0
SEP								
18.	1129	--	--	--	--	--	--	9.4

07261000 CADRON CREEK NEAR GUY, ARKANSAS

LOCATION.--Lat 35°17'56", long 92°24'10", in NW ¼ SE ¼ 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 southwest of Guy, 10.5 mi upstream from Cove Creek, and at mile. 48.3.

DRAINAGE AREA.--169 mi².

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--36 years, 284 ft³/s, 22.82 in/yr, 205,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,200 ft³/s Dec. 4, 1982, gage height, 29.29 ft, from rating curve extended above 19,000 ft³/s; no flow at times.

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

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 01	1500	5,000	11.40	Mar. 30	1830	5,150	11.59
Feb. 15	2000	5,800	12.41	Apr. 21	0615	4,370	10.56
Mar. 08	1600	*7,810	*14.73				

No flow Aug. 9-12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	8.0	12	27	3480	562	1340	403	e600	e40	1.3	1.2
2	33	7.5	11	33	3060	549	930	2890	e680	e40	1.8	1.6
3	28	6.7	10	30	2630	431	646	e4150	e510	e35	2.4	2.3
4	24	7.0	10	39	2000	343	508	e2350	e340	e35	1.4	4.8
5	23	10	10	71	1190	300	407	e1360	e260	e35	.50	3.9
6	21	8.5	9.7	69	856	268	392	e780	215	e30	.31	1.7
7	18	8.4	9.9	55	620	500	331	e570	176	e30	.19	.75
8	16	10	12	46	484	5760	268	e460	148	e30	.12	1.1
9	15	11	11	42	917	2390	235	e360	129	e25	.00	.69
10	14	11	12	38	1570	1410	267	e290	113	e25	.00	.28
11	13	10	11	34	904	1020	339	e250	102	e20	.00	.40
12	12	8.0	11	30	635	771	252	e210	91	e20	.00	e.50
13	10	6.1	10	28	501	595	225	e165	81	e15	303	e.50
14	9.4	6.6	10	26	421	510	211	e140	73	e15	243	e1.0
15	8.6	6.3	8.8	25	2850	1410	201	e130	64	e10	96	e1.5
16	12	6.1	15	24	2440	995	224	e120	58	e10	55	e1.0
17	23	6.2	9.2	33	1270	689	538	e125	52	e7.5	37	e.50
18	47	6.6	13	91	921	504	1100	e140	45	e6.0	30	e.50
19	42	7.0	9.0	1420	693	399	700	e1160	40	3.9	22	e.50
20	33	6.4	8.1	2850	510	330	783	e3200	36	3.1	17	e130
21	26	6.1	7.7	1090	424	273	3260	e2330	31	3.0	14	e150
22	21	7.5	7.4	576	833	236	1660	e1550	855	2.1	11	e40
23	18	10	6.6	383	794	200	1100	e1130	e255	3.0	9.0	e20
24	17	14	6.8	277	586	179	801	e870	e105	2.7	6.8	e10
25	14	16	6.7	228	428	260	564	e740	e70	2.3	6.7	e5.0
26	13	15	5.7	179	374	239	430	e710	e55	13	5.9	e2.5
27	12	15	5.8	151	348	204	364	e1650	e50	19	4.1	e1.0
28	11	13	6.6	132	315	256	913	e1110	e45	8.7	3.1	e.50
29	10	13	9.2	250	---	844	684	e800	e45	5.1	2.1	e.50
30	8.1	13	11	281	---	3130	494	e620	e40	3.1	1.5	e.50
31	7.5	---	16	216	---	2340	---	e590	---	1.9	1.0	---
TOTAL	586.6	280.0	302.2	8774	32054	27897	20167	31353	5364	499.4	876.22	384.72
MEAN	18.9	9.33	9.75	283	1145	900	672	1011	179	16.1	28.3	12.8
MAX	47	16	16	2850	3480	5760	3260	4150	855	40	303	150
MIN	7.5	6.1	5.7	24	315	179	201	120	31	1.9	.00	.28
AC-FT	1160	555	599	17400	63580	55330	40000	62190	10640	991	1740	763
CFSM	.11	.06	.06	1.67	6.77	5.32	3.98	5.98	1.06	.10	.17	.08
IN.	.13	.06	.07	1.93	7.06	6.14	4.44	6.90	1.18	.11	.19	.08

CAL YR 1989 TOTAL 97352.8 MEAN 267 MAX 8950 MIN 4.1 AC-FT 193100 CFSM 1.58 IN. 21.43
WTR YR 1990 TOTAL 128538.14 MEAN 352 MAX 5760 MIN .00 AC-FT 255000 CFSM 2.08 IN. 28.29

e Estimated

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, ARKANSAS

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 west of Conway, and at mile 172.0.

DRAINAGE AREA.--156,386 mi², of which 22,241 mi² is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
10.	1645	9827	9827	11700	8.5	22.0	9.5	9.7	2.1
NOV									
07.	1450	9827	9827	20000	8.6	19.0	10	9.8	1.6
DEC									
12.	1545	9827	9827	7700	8.8	7.0	5.0	12.4	2.6
JAN									
09.	1619	9827	9827	2800	8.5	7.0	4.0	13.7	2.5
FEB									
13.	1532	9827	9827	49400	7.5	13.0	35	10.1	1.2
MAR									
06.	1536	9827	9827	97600	--	11.0	40	11.8	1.2
APR									
03.	1520	9827	9827	156000	7.5	15.0	55	10.5	1.2
MAY									
01.	0930	9827	9827	181000	7.7	18.0	60	9.1	0.7
JUN									
26.	0915	9827	9827	70200	8.1	28.0	--	8.5	2.1
JUL									
17.	0925	9827	9827	1500	8.1	29.0	--	8.7	2.0
AUG									
14.	0945	9827	9827	9700	8.4	28.0	--	7.8	1.2
SEP									
18.	1002	9827	9827	500	8.1	27.0	--	5.5	1.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
10.	1645	140	53	96	339	12	--	<0.050	0.140
NOV									
07.	1450	160	75	110	412	14	0.060	<0.050	0.080
DEC									
12.	1545	160	66	120	445	12	<0.020	<0.050	0.070
JAN									
09.	1619	160	74	110	442	7	<0.020	<0.050	0.100
FEB									
13.	1532	70	32	54	--	12	0.450	0.130	0.110
MAR									
06.	1536	110	47	75	306	35	0.280	<0.050	0.170
APR									
03.	1520	96	33	39	237	41	0.470	0.140	0.120
MAY									
01.	0930	80	29	42	211	50	0.420	0.070	0.170
JUN									
26.	0915	110	44	45	218	26	0.260	<0.050	0.120
JUL									
17.	0925	140	45	55	225	8	0.090	--	0.060
AUG									
14.	0945	130	43	58	265	9	<0.020	<0.050	0.070
SEP									
18.	1002	140	49	78	320	--	<0.020	0.100	0.070

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1645	0.070	<1	<1	<15	<2	<10	5.1
NOV								
07.	1450	0.040	<1	--	<15	<2	--	5.6
DEC								
12.	1545	0.030	<5	<1	<15	<2	--	6.2
JAN								
09.	1619	0.040	--	--	--	--	--	5.2
FEB								
13.	1532	<0.030	--	--	--	--	--	4.8
MAR								
06.	1536	0.050	--	--	--	--	--	5.0
APR								
03.	1520	0.120	--	--	--	--	--	7.3
MAY								
01.	0930	0.070	--	--	--	--	--	7.6
JUN								
26.	0915	0.030	--	--	--	--	--	6.2
JUL								
17.	0925	0.060	--	--	--	--	--	6.8
AUG								
14.	0945	0.030	--	--	--	--	--	5.6
SEP								
18.	1002	--	--	--	--	--	--	6.0

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, ARKANSAS

LOCATION.--Lat 34°52'21", long 93°39'24", in NW ¼ NW ¼ 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 downstream from Garner Creek, 1.9 mi east of Gravelly, 6.4 mi upstream from Gaffords Creek, and at mile 103.7.

DRAINAGE AREA.--410 mi^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 above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to May 11, 1939, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good, except for estimated daily discharges Dec. 1-25, which are poor. Satellite telemeter at station.

AVERAGE DISCHARGE.--51 years, 546 ft^3/s, 18.08 in/yr, 395,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162,000 ft^3/s Dec. 3, 1982, gage height, 32.45 ft, from floodmarks, from rating curve extended above 47,000 ft^3/s on basis of contracted-opening and flow-over-road measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft3/)	Gage Height (ft)
Jan. 19	2200	14,800	16.53	Apr. 21	2200	26,400	22.38
Feb. 02	0400	12,800	15.22	May 03	1900	*58,500	*28.85
Mar. 08	0900	10,400	13.51	May 19	2400	46,300	27.23

Minimum discharge, 0.12 ft^3/s Sept. 7-8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	2.8	e7.3	8.5	4220	379	980	1010	1590	15	15	.98
2	23	3.8	e7.2	12	7990	517	756	18700	1280	13	18	.58
3	21	4.4	e7.1	20	3040	495	597	44800	1590	11	16	.46
4	19	4.9	e7.1	18	2080	434	495	16300	1200	9.5	12	.40
5	17	5.2	e7.0	6.5	1360	376	432	3020	834	8.5	11	.32
6	15	5.9	e7.0	5.9	982	332	789	1770	638	7.4	9.6	.26
7	13	6.8	e8.3	7.1	745	1410	1250	1240	498	7.1	8.4	.17
8	11	7.7	e8.0	11	594	7750	855	930	385	5.6	7.2	.21
9	9.2	8.2	e7.8	11	560	2820	664	737	301	5.3	6.5	.27
10	8.0	7.9	e7.5	17	2090	1600	691	608	240	5.0	5.5	.35
11	6.5	7.7	e7.3	20	1390	1140	1170	499	234	3.7	5.2	.73
12	5.1	7.7	e7.2	16	907	1020	867	457	179	5.7	7.2	1.6
13	5.0	7.8	e13	15	678	1030	682	640	163	6.1	9.6	2.2
14	4.7	7.8	e7.1	15	553	899	643	474	131	5.0	12	2.1
15	3.7	7.7	e7.0	14	493	3530	690	361	108	5.1	13	1.7
16	2.8	7.2	e7.0	17	469	1950	762	292	91	6.9	11	1.4
17	1.9	6.9	e7.0	48	399	1240	1340	351	76	15	11	1.4
18	1.5	6.6	e7.0	210	331	907	1510	555	64	14	11	3.6
19	e1.5	6.2	e7.0	6780	290	710	1160	14800	53	12	12	7.0
20	e1.5	6.2	e6.5	7760	254	581	2270	23300	45	10	12	9.0
21	e1.5	6.1	e6.5	1860	230	484	18200	5790	37	9.3	11	12
22	e2.0	7.7	e6.5	1020	345	417	6880	3400	34	12	11	320
23	e2.0	8.9	e6.5	695	477	355	3410	1700	27	16	10	336
24	e2.0	8.9	e6.5	529	443	309	1840	1130	23	14	9.1	160
25	1.7	9.0	e7.0	416	364	288	1260	821	23	17	7.7	103
26	2.1	9.2	8.3	328	308	284	1010	642	21	20	6.7	77
27	2.6	9.2	8.6	269	273	277	1250	792	20	20	5.4	60
28	2.6	8.5	8.5	228	253	1210	2080	2800	19	18	4.0	49
29	2.3	7.9	12	223	---	2580	1470	1440	19	17	3.1	43
30	2.3	7.5	17	224	---	1860	1010	1080	17	18	2.3	40
31	2.5	---	9.2	209	---	1290	---	2450	---	17	1.5	---
TOTAL	218.0	212.3	247.0	21013.0	32118	38474	57013	152889	9940	349.2	285.0	1234.73
MEAN	7.03	7.08	7.97	678	1147	1241	1900	4932	331	11.3	9.19	41.2
MAX	24	9.2	17	7760	7990	7750	18200	44800	1590	20	18	336
MIN	1.5	2.8	6.5	5.9	230	277	432	292	17	3.7	1.5	.17
AC-FT	432	421	490	41680	63710	76310	113100	303300	19720	693	565	2450
CFSM	.02	.02	.02	1.65	2.80	3.03	4.64	12.0	.81	.03	.02	.10
IN.	.02	.02	.02	1.91	2.91	3.49	5.17	13.87	.90	.03	.03	.11

CAL YR 1989 TOTAL 216229.3 MEAN 592 MAX 17000 MIN 1.5 AC-FT 428900 CFSM 1.44 IN. 19.62
WTR YR 1990 TOTAL 313993.23 MEAN 860 MAX 44800 MIN .17 AC-FT 622800 CFSM 2.10 IN. 28.49

e Estimated

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1415	9827	9827	7.4	21.0	2.9	8.3	1.2	16
NOV									
07.	1245	9827	9827	7.5	18.0	2.0	7.9	2.0	16
DEC									
12.	1320	9827	9827	7.8	5.0	3.5	11.5	1.1	16
JAN									
09.	1409	9827	9827	8.1	8.0	4.0	11.8	0.8	16
FEB									
13.	1309	9827	9827	7.9	13.0	20	20.3	0.4	12
MAR									
06.	1320	9827	9827	--	12.0	15	11.5	0.6	12
APR									
03.	1308	9827	9827	7.7	16.0	9.5	10.7	0.6	6
MAY									
01.	1454	9827	9827	7.2	17.0	25	8.6	0.3	12
JUN									
26.	1450	9827	9827	7.4	28.0	--	8.0	1.2	16
JUL									
17.	1506	9827	9827	7.4	27.0	--	7.5	1.4	30
AUG									
14.	1534	9827	9827	7.5	27.0	--	7.2	1.4	16
SEP									
18.	1547	9827	9827	7.3	26.0	--	7.1	1.1	16

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
10.	1415	5.0	3.2	25	3	<0.020	<0.050	<0.030
NOV								
07.	1245	4.0	3.6	32	2	<0.020	<0.050	<0.030
DEC								
12.	1320	5.0	3.9	24	4	<0.020	<0.050	<0.030
JAN								
09.	1409	5.0	3.9	26	2	<0.020	<0.050	0.030
FEB								
13.	1309	5.0	3.4	--	5	0.150	<0.050	0.040
MAR								
06.	1320	8.0	3.6	49	3	0.060	<0.050	0.090
APR								
03.	1308	5.0	3.2	52	2	0.060	0.250	0.040
MAY								
01.	1454	4.0	2.0	39	19	0.110	<0.050	0.060
JUN								
26.	1450	4.0	2.4	32	3	<0.020	<0.050	0.040
JUL								
17.	1506	2.0	2.8	25	2	0.020	--	<0.030
AUG								
14.	1534	4.0	4.0	30	2	<0.020	0.090	0.030
SEP								
18.	1547	5.0	4.4	28	--	<0.020	<0.050	0.030

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1415	<0.030	<1	<1	<15	<2	<10	2.7
NOV								
07.	1245	<0.030	<1	--	<15	<2	--	3.3
DEC								
12.	1320	<0.030	<1	<1	<15	<2	--	3.1
JAN								
09.	1409	<0.030	--	--	--	--	--	2.5
FEB								
13.	1309	<0.030	--	--	--	--	--	2.3
MAR								
06.	1320	<0.030	--	--	--	--	--	1.4
APR								
03.	1308	0.050	--	--	--	--	--	1.9
MAY								
01.	1454	<0.030	--	--	--	--	--	3.2
JUN								
26.	1450	<0.030	--	--	--	--	--	3.2
JUL								
17.	1506	0.040	--	--	--	--	--	3.7
AUG								
14.	1534	<0.030	--	--	--	--	--	3.4
SEP								
18.	1547	--	--	--	--	--	--	4.5

07262985 SOUTH FOURCHE LAFAVE RIVER AT HOLLIS, ARKANSAS

LOCATION.--Lat 34°52'16", long 93°06'38", in NE ¼ NE ¼ sec.34, T.3 N., R.20 W., Perry County, Hydrologic Unit 11110206, at bridge on State Highway 7 at Hollis, and just above confluence with Bear Creek.

DRAINAGE AREA.--127 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1520	9827	9827	11	7.1	20.0	8.2	7.5	1.2
NOV 07.	1345	9827	9827	3.1	7.1	19.0	4.2	7.1	1.1
DEC 12.	1422	9827	9827	2.5	7.4	4.0	4.0	10.1	0.9
JAN 09.	1507	9827	9827	10	7.8	4.0	4.0	11.4	1.6
FEB 13.	1412	9827	9827	119	7.4	13.0	25	10.1	0.7
MAR 06.	1426	9827	9827	98	--	12.0	20	10.5	0.8
APR 03.	1410	9827	9827	125	7.4	16.0	20	10.0	0.8
MAY 01.	1555	9827	9827	210	6.8	18.0	30	7.8	3.1
JUN 26.	1548	9827	9827	4.8	7.0	27.0	--	6.1	1.0
JUL 17.	1605	9827	9827	1.0	7.1	27.0	--	7.3	2.1
AUG 14.	1635	9827	9827	0.0	7.3	27.0	--	7.3	2.1
SEP 18.	1647	9827	9827	0.0	7.1	27.0	--	5.4	1.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1520	22	6.0	4.3	37	4	0.100	<0.050	0.040
NOV 07.	1345	18	4.0	4.7	35	4	<0.020	0.060	0.030
DEC 12.	1422	30	4.0	4.3	35	3	<0.020	<0.500	0.040
JAN 09.	1507	16	5.0	5.5	24	3	<0.020	<0.050	0.060
FEB 13.	1412	16	5.0	3.9	--	7	0.100	<0.050	0.070
MAR 06.	1426	14	11	4.3	54	6	0.090	0.070	0.100
APR 03.	1410	10	5.0	3.6	53	3	0.090	0.110	0.100
MAY 01.	1555	14	6.0	2.6	48	17	0.130	0.050	0.080
JUN 26.	1548	16	5.0	2.7	39	3	0.020	<0.050	0.060
JUL 17.	1605	34	2.0	2.9	16	5	0.040	--	0.040
AUG 14.	1635	20	4.0	3.9	34	4	0.020	0.110	0.050
SEP 18.	1647	20	5.0	4.1	38	--	<0.020	<0.050	0.050

07262985 SOUTH FOURCHE LAFAVE RIVER AT HOLLIS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1520	0.040	<1	<1	<15	<2	<10	5.4
NOV								
07.	1345	<0.030	<1	--	21	<2	--	5.2
DEC								
12.	1422	0.030	<1	<1	<15	<2	--	4.2
JAN								
09.	1507	<0.030	--	--	--	--	--	4.2
FEB								
13.	1412	<0.030	--	--	--	--	--	5.0
MAR								
06.	1426	0.030	--	--	--	--	--	3.9
APR								
03.	1410	0.060	--	--	--	--	--	12
MAY								
01.	1555	0.030	--	--	--	--	--	6.5
JUN								
26.	1548	<0.030	--	--	--	--	--	5.1
JUL								
17.	1605	<0.030	--	--	--	--	--	5.7
AUG								
14.	1635	<0.030	--	--	--	--	--	5.3
SEP								
18.	1647	--	--	--	--	--	--	5.6

07263000 SOUTH FOURCHE LAFAVE RIVER NEAR HOLLIS, ARKANSAS

LOCATION.--Lat 34°54'41, long 93°03'21", in SE ¼ NE ¼ sec.18, T.3 N., R.19 W., Perry County, Hydrologic Unit 11110206, on left bank 0.8 mi upstream from Big Cove Creek, 2.1 mi downstream from Cedar Creek, 4.0 mi northeast of Hollis, and at mile 5.6.

DRAINAGE AREA.--210 mi².

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 above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.-Records good. Satellite telemeter at station.

AVERAGE DISCHARGE.--49 years, 298 ft³/s, 19.27 in/yr, 215,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 94,000 ft³/s Dec. 3, 1982, gage height, 24.55 ft, from rating curve extended above 35,000 ft³/s on basis of slope-area measurement at gage heights, 18.51 ft, and 19.47 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 15	0900	10,600	10.54	May 03	1800	11,100	10.70
Mar. 08	0200	*13,400	11.45	May 19	2000	9,210	10.04
May 02	0800	*13,400	*11.47				

No flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	4.7	5.2	15	4920	465	563	1600	e300	5.0	.18	.00
2	68	4.7	5.1	12	2930	574	388	9630	e260	4.1	.10	.00
3	46	4.7	4.9	11	3310	408	278	7210	e230	3.3	.08	.00
4	34	4.6	4.7	29	1610	300	221	2430	e205	2.4	.03	.00
5	28	4.6	4.5	37	779	237	193	1510	176	2.0	.03	.00
6	27	5.4	4.3	27	500	206	579	1170	129	1.7	.02	.00
7	34	5.5	4.3	21	345	1730	643	710	98	1.4	.00	.00
8	29	6.3	4.3	21	255	7420	402	316	75	1.1	.00	.00
9	24	6.2	4.5	19	237	2010	291	222	62	.76	.00	.00
10	20	5.7	4.4	17	692	1070	331	177	56	.52	.00	.00
11	19	5.7	4.3	15	525	579	465	142	44	.52	.00	.00
12	17	5.4	4.3	13	347	480	330	355	37	.69	.00	.00
13	15	5.2	4.3	12	259	443	254	626	32	.71	.01	.00
14	14	5.2	4.3	11	212	404	232	307	27	1.3	.00	.00
15	13	5.1	4.3	10	4430	2060	219	195	25	2.0	.00	.00
16	12	4.8	4.3	10	1950	886	240	146	26	1.6	.00	.00
17	12	4.7	4.3	70	1240	529	1140	125	27	1.2	.00	.00
18	11	4.7	4.1	161	595	356	1150	101	22	1.0	.00	.24
19	10	4.7	4.1	3880	367	271	616	3600	18	.87	.00	.44
20	9.3	4.7	4.1	3140	268	216	465	5760	15	.66	.00	69
21	8.6	4.6	4.0	1240	224	182	1700	2140	14	.50	.00	123
22	7.9	5.0	3.9	507	518	155	2940	1480	15	.49	.00	68
23	7.7	5.7	3.7	284	491	131	1620	865	15	.72	.00	39
24	7.2	5.7	3.5	198	336	113	789	369	11	.73	.00	24
25	6.7	5.7	3.5	152	251	113	505	230	9.4	.61	.00	17
26	6.3	5.7	3.5	112	208	125	360	173	8.6	.53	.00	13
27	6.2	5.7	3.5	88	182	148	817	234	9.1	.45	.00	11
28	5.8	5.7	3.5	86	161	1270	1710	579	8.4	.38	.00	9.7
29	5.2	5.5	3.7	246	---	1750	784	477	6.9	.32	.00	8.4
30	4.8	5.2	4.2	300	---	1240	473	e410	5.8	.26	.00	8.1
31	4.7	---	8.0	254	---	830	---	e350	---	.21	.00	---
TOTAL	615.4	157.1	133.6	10998	28142	26701	20698	43639	1967.2	38.03	0.45	390.88
MEAN	19.9	5.24	4.31	355	1005	861	690	1408	65.6	1.23	.015	13.0
MAX	102	6.3	8.0	3880	4920	7420	2940	9630	300	5.0	.18	123
MIN	4.7	4.6	3.5	10	161	113	193	101	5.8	.21	.00	.00
AC-FT	1220	312	265	21810	55820	52960	41050	86560	3900	75	.9	775
CFSM	.09	.02	.02	1.69	4.79	4.10	3.29	6.70	.31	.01	.00	.06
IN.	.11	.03	.02	1.95	4.99	4.73	3.67	7.73	.35	.01	.00	.07

CAL YR 1989 TOTAL 108770.61 MEAN 298 MAX 8520 MIN .12 AC-FT 215700 CFSM 1.42 IN. 19.27
WTR YR 1990 TOTAL 133480.66 MEAN 366 MAX 9630 MIN .00 AC-FT 264800 CFSM 1.74 IN. 23.65

e Estimated

07263240 STONE DAM CREEK NEAR CONWAY, ARKANSAS

LOCATION.--Lat 35°03'32", long 92°26'28", in SW ¼ NE ¼ sec.24, T.5 N., R.14 W., Faulkner County, Hydrologic Unit 11110203, at intersection of two unnamed county roads, 1.0 mi west of State Highway 365, 0.6 mi south of State Highway 286, and 2.1 mi south of Conway Post Office.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
10.	1705	9827	9827	7.0	23.0	25	6.9	2.1	52
NOV									
07.	1520	9827	9827	7.2	22.0	20	5.2	3.6	52
DEC									
12.	1605	9827	9827	7.4	10.0	4.5	8.2	2.6	44
JAN									
09.	1645	9827	9827	7.2	13.0	20	7.3	19	44
FEB									
13.	1557	9827	9827	6.9	16.0	10	5.8	3.2	40
MAR									
06.	1606	9827	9827	--	15.0	10	6.7	2.3	40
APR									
03.	1550	9827	9827	6.9	17.0	9.1	6.5	2.8	40
MAY									
01.	0955	9827	9827	7.0	18.0	7.7	8.9	--	36
JUN									
26.	0944	9827	9827	6.6	25.0	--	4.9	3.9	54
JUL									
17.	1000	9827	9827	6.8	25.0	--	4.8	5.3	54
AUG									
14.	1015	9827	9827	6.9	26.0	--	5.5	2.3	42
21.	1259	9827	9827	7.6	30.0	--	6.9	2.6	62
SEP									
18.	1029	9827	9827	6.8	25.0	--	5.5	0.6	46

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
10.	1705	42	37	256	23	11.0	0.130	1.9	6.90
NOV									
07.	1520	59	26	230	19	6.70	4.60	4.7	5.50
DEC									
12.	1605	54	30	242	7	4.00	9.40	16	6.70
JAN									
09.	1645	51	29	225	22	1.50	11.1	17	6.90
FEB									
13.	1557	36	18	--	12	4.40	3.24	3.8	3.05
MAR									
06.	1606	41	--	176	10	1.40	5.55	7.4	3.30
APR									
03.	1550	33	18	114	10	3.30	2.50	3.0	3.30
MAY									
01.	0955	41	24	182	10	2.00	7.05	--	3.60
JUN									
26.	0944	53	37	266	20	12.0	0.180	1.9	8.10
JUL									
17.	1000	50	37	238	25	11.0	--	2.8	11.7
AUG									
14.	1015	37	24	213	22	7.90	0.090	1.6	5.00
21.	1259	37	8.1	123	10	0.040	0.090	0.40	<0.030
SEP									
18.	1029	47	29	250	--	9.60	0.090	1.4	5.50

07263240 STONE DAM CREEK NEAR CONWAY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1705	6.40	<1	<1	<15	<2	10	9.3
NOV								
07.	1520	5.20	<1	--	<15	3	--	12
DEC								
12.	1605	6.60	<1	6	<15	<2	--	11
JAN								
09.	1645	5.32	--	--	--	--	--	25
FEB								
13.	1557	2.64	--	--	--	--	--	10
MAR								
06.	1606	2.22	--	--	--	--	--	12
APR								
03.	1550	2.05	--	--	--	--	--	12
MAY								
01.	0955	2.90	--	--	--	--	--	12
JUN								
26.	0944	6.90	--	--	--	--	--	12
JUL								
17.	1000	7.80	--	--	--	--	--	14
AUG								
14.	1015	4.45	--	--	--	--	--	11
21.	1259	<0.030	--	--	--	--	--	5.3
SEP								
18.	1029	--	--	--	--	--	--	11

07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION, ARKANSAS

LOCATION.--Lat 34°52'33", long 92°46'28", in NE ¼ sec. 26, T. 3 N., R. 17 W., Perry County, Hydrologic Unit 11110207, at State Highway 9 bridge, 19.2 miles upstream from Lake Maumelle dam.

DRAINAGE AREA.--46.1 mi².

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY										
22...	1330	80513	80020	149	25	5.7	21.5	7.9	91	748
22...	1335	80513	80020	--	--	--	--	--	--	--
AUG										
28...	1130	80513	80020	2.6	32	6.9	27.5	5.2	67	754

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY									
22...	1330	12	70	K1700	5800	7	1.1	0.97	1.2
AUG									
28...	1130	4.0	35	K40	K360	10	1.7	1.5	1.3

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
22...	1330	26	0.2	0.50	7	2.1	2.0	0.10	34
AUG									
28...	1130	19	0.2	1.1	11	1.8	2.0	0.10	19

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
MAY									
22...	1330	0.05	13.7	21	8.4	<0.100	<0.100	--	<0.010
22...	1335	--	--	--	--	--	--	5.0	--
AUG									
28...	1130	0.03	0.13	19	0.13	<0.100	<0.100	--	0.020

DATE	TIME	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
MAY									
22...	1330	--	--	0.20	0.010	<0.010	<0.010	--	5.1
22...	1335	5.7	--	--	--	--	--	<40	--
AUG									
28...	1130	--	0.48	0.50	0.010	<0.010	0.020	--	4.3

07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY											
22...	1330	<1	--	<100	--	<10	<1	--	1	--	910
22...	1335	--	<1	--	20	--	--	<1	--	4	--
AUG											
28...	1130	--	--	--	--	10	--	--	--	--	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
22...	1330	--	15	--	70	--	<1	<1	--	--
22...	1335	4500	--	<10	--	55	--	--	<1	10

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
22...	1330	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
22...	1335	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
22...	1330	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
22...	1335	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
22...	1330	--	<0.01	--	--	--	--	--	--	--
22...	1335	<0.1	--	<1.0	<0.1	<0.1	<1.0	<0.1	0.1	<0.1

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
22...	1335	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1

07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT										
02...	1200	80513	80020	39	28	6.6	18.5	8.2	88	754
JAN										
19...	1345	80513	80020	1330	23	6.0	8.0	11.2	96	752
29...	1230	80513	80020	115	26	6.4	7.0	11.5	96	751
MAR										
08...	1015	80513	81213	1930	18	6.1	11.0	9.5	87	756
APR										
02...	1200	80513	80020	147	20	6.4	13.5	9.5	92	756
AUG										
28...	1150	80513	80020	0.0	44	6.4	28.5	3.9	51	754
28...	1155	80513	80020	--	--	--	--	--	--	--

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT										
02...	1200	6.7	45	40	K14000	7	1.2	1.0	1.5	29
JAN										
19...	1345	24	100	190	6400	7	1.3	0.93	1.0	20
29...	1230	10	50	53	460	--	1.1	1.0	1.4	--
MAR										
08...	1015	20	60	140	2100	5	1.0	0.70	0.70	19
APR										
02...	1200	7.7	25	K20	400	5	0.92	0.70	1.2	31
AUG										
28...	1150	2.5	28	26	110	24	4.5	3.2	2.3	16

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT									
02...	1200	0.2	0.70	8	1.8	2.0	<0.10	15	0.02
JAN									
19...	1345	0.2	1.2	4	1.9	4.0	<0.10	22	0.03
29...	1230	--	0.70	5	2.2	3.0	<0.10	23	--
MAR									
08...	1015	0.1	0.80	3	0.70	3.0	<0.05	29	0.04
APR									
02...	1200	0.2	0.40	4	0.20	2.7	<0.10	23	0.03
AUG									
28...	1150	0.2	1.6	16	2.5	1.1	<0.10	36	0.05

DATE	TIME	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
OCT									
02...	1200	1.58	10	1.0	<0.100	<0.100	--	0.020	--
JAN									
19...	1345	79.0	56	201	<0.100	<0.100	--	0.010	--
29...	1230	--	5	1.6	<0.100	<0.100	--	0.020	--
MAR									
08...	1015	151	65	339	0.020	<0.020	--	<0.010	--
APR									
02...	1200	9.13	8	3.2	<0.100	<0.100	--	<0.010	--
AUG									
28...	1150	--	6	--	<0.100	<0.100	--	0.020	--
28...	1155	--	--	--	--	--	<2.0	--	6.0

07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
OCT									
02...	1200	0.28	0.30	<0.010	0.020	0.020	--	3.1	10
JAN									
19...	1345	0.69	0.70	0.010	0.030	0.020	--	--	<10
29...	1230	0.18	0.20	<0.010	0.030	0.020	--	2.4	<10
MAR									
08...	1015	--	0.45	0.030	0.050	0.060	--	5.8	40
APR									
02...	1200	--	0.30	<0.010	<0.010	<0.010	--	1.8	<10
AUG									
28...	1150	0.58	0.60	<0.010	<0.010	0.040	--	4.8	<10
28...	1155	--	--	--	--	--	300	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
JAN										
29...	1230	<1	--	<100	--	<1	--	<1	--	530
AUG										
28...	1150	1	--	--	--	1	--	<1	--	650
28...	1155	--	42	--	20	--	<1	--	10	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
JAN										
29	1230	--	5	--	10	--	<1	<1	--	--
AUG										
28...	1150	--	<1	--	130	--	<1	<1	--	--
28...	1155	8600	--	20	--	120	--	--	<1	30

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
29...	1230	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
29...	1230	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07263296 MAUMELLE RIVER NEAR CROSSROADS, ARKANSAS

LOCATION.--Lat 34°53'03", long 92°42'06", in SW ¼ sec. 22, T. 3 N., R. 16 W., Pulaski County, Hydrologic Unit 11110207, at low-water bridge off of State Highway 10, 13.3 miles upstream from Lake Maumelle dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY										
23...	1000	80513	80020	232	29	5.8	21.5	7.8	89	754
23...	1005	80513	80020	--	--	--	--	--	--	--
AUG										
28...	1300	80513	80020	3.5	40	7.1	28.5	6.3	82	757

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
MAY										
23...	1000	1.4	55	K200	1900	9	1.3	1.3	1.4	24
AUG										
28...	1300	2.1	30	K27	3900	13	2.1	2.0	1.8	21

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
MAY									
23...	1000	0.2	1.0	8	1.8	3.0	0.10	33	0.05
AUG									
28...	1300	0.2	0.90	13	2.6	2.0	0.10	22	0.03

DATE	TIME	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
23...	1000	20.7	23	14	<0.100	<0.100	--	0.020	--
23...	1005	--	--	--	--	--	4.0	--	<0.4
AUG									
28...	1300	0.21	12	0.11	<0.100	<0.100	--	0.020	--

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
23...	1000	0.38	0.40	<0.010	<0.010	0.020	--	4.7	20
23...	1005	--	--	--	--	--	<40	--	--
AUG									
28...	1300	0.48	0.50	<0.010	<0.010	0.020	--	4.5	20

07263296 MAUMELLE RIVER NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
23...	1000	<1	--	<100	--	<1	--	2	--	1400
23...	1005	--	2	--	<10	--	<1	--	3	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
23...	1000	--	5	--	30	--	<1	<1	--	--
23...	1005	1200	--	<10	--	23	--	--	<1	7

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
23...	1000	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
23...	1005	--	<0.1	--	<0.1	--	<0.1	--	0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
23...	1000	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
23...	1005	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
23...	1000	--	<0.01	--	--	--	--	--	--	--
23...	1005	<0.1	--	<1.0	<0.1	<0.1	<1.0	<0.1	0.4	<0.1

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
23...	1005	0.2	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1

07263296 MAUMELLE RIVER NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT										
02...	1345	80513	80020	56	32	6.6	19.0	8.4	91	756
JAN										
19...	1600	80513	80020	--	24	6.1	8.0	9.8	84	747
29...	1400	80513	80020	193	31	6.6	8.0	11.8	101	753
MAR										
08...	1300	80513	81213	2330	16	6.3	12.0	9.5	89	758
APR										
02...	1330	80513	80020	190	25	6.4	14.5	10.1	100	758
AUG										
28...	1300	80513	80020	0.0	70	6.3	30.5	6.8	92	755
28...	1305	80513	80020	--	--	--	--	--	--	--

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT										
02...	1345	5.7	25	170	480	10	1.6	1.4	1.6	24
JAN										
19...	1600	32	110	400	5000	7	1.1	1.0	1.0	21
29...	1400	10	45	31	460	9	1.3	1.4	1.6	26
MAR										
08...	1300	24	60	200	1600	6	1.0	0.80	0.60	16
APR										
02...	1330	7.8	25	K20	440	7	1.1	0.93	1.5	31
AUG										
28...	1300	2.7	28	13	140	--	--	--	--	--

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT									
02...	1345	0.2	0.80	9	2.1	3.0	<0.10	23	0.03
JAN									
19...	1600	0.2	1.1	3	1.9	4.0	<0.10	26	0.03
29...	1400	0.2	0.70	6	2.8	4.0	<0.10	3	0.00
MAR									
08...	1300	0.1	0.80	2	0.70	3.1	<0.05	26	0.03
APR									
02...	1330	0.3	0.60	4	2.0	3.1	0.10	23	0.03
AUG									
28...	1300	--	1.2	27	3.8	<1.0	<0.10	47	--

DATE	TIME	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
OCT									
02...	1345	3.47	12	1.8	<0.100	<0.100	--	0.010	--
JAN									
19...	1600	--	72	--	<0.100	0.100	--	0.010	--
29...	1400	1.56	9	4.5	<0.100	<0.100	--	0.020	--
MAR									
08...	1300	164	79	497	0.020	0.020	--	<0.010	--
APR									
02...	1330	11.8	8	4.1	<0.100	<0.100	--	0.090	--
AUG									
28...	1300	--	7	--	<0.100	<0.100	--	<0.010	--
28...	1305	--	--	--	--	--	<2.0	--	2.8

07263296 MAUMELLE RIVER NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
OCT									
02...	1345	0.59	0.60	<0.010	0.020	0.030	--	3.3	20
JAN									
19...	1600	0.69	0.70	0.030	0.040	0.020	--	9.9	<10
29...	1400	0.38	0.40	<0.010	0.020	0.030	--	5.2	<10
MAR									
08...	1300	--	0.53	0.030	0.050	0.070	--	6.8	40
APR									
02...	1330	0.81	0.90	<0.010	<0.010	<0.010	--	2.7	<10
AUG									
28...	1300	--	0.50	<0.010	0.010	0.020	--	3.8	10
28...	1305	--	--	--	--	--	200	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
JAN										
29...	1400	<1	--	<100	--	<1	--	<1	--	650
AUG										
28...	1300	1	--	--	--	<1	--	<1	--	1000
28...	1305	--	58	--	<10	--	<1	--	6	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
JAN										
29	1400	--	3	--	40	--	<1	<1	--	--
AUG										
28...	1300	--	3	--	450	--	<1	<1	--	--
28...	1305	6200	--	<10	--	130	--	--	<1	20

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
29...	1400	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
29...	1400	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07263297 LAKE MAUMELLE AT CROSSROADS, ARKANSAS

LOCATION.--Lat 34°52'31", long 92°38'53", in NW ¼ sec. 30, T. 3 N., R. 15 W., Pulaski County, Hydrologic Unit 11110207, at 0.1 mile downstream from State Highway 10 bridge, and 9.5 miles upstream from dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
25...	1020	80513	80020	0.0	20.0	26	5.9	22.5	749	6.8	80
25...	1022	80513	80020	2.00	20.0	26	5.8	22.5	749	6.6	78
25...	1024	80513	80020	4.00	20.0	26	5.8	21.5	749	6.4	74
25...	1026	80513	80020	10.0	20.0	26	5.8	20.5	749	6.1	69
25...	1028	80513	80020	16.0	20.0	26	5.7	20.0	749	5.4	60
25...	1030	80513	80020	20.0	20.0	32	5.7	19.5	749	2.9	32
25...	1035	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
25.	1020	1.00	--	--	--	--	--	--	--	--
25.	1024	--	4.0	23	8	13	7	1.1	1.1	1.0
25.	1028	--	4.4	20	1	13	7	1.1	1.1	1.0

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
25.	1024	21	0.2	0.60	6	1.5	3.0	<0.10	20
25.	1028	21	0.2	0.60	6	1.4	3.0	0.10	27

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
25.	1022	--	2.10	0.400	--	--	--	--	--
25.	1024	0.03	--	--	<0.100	<0.100	--	0.040	--
25.	1028	0.04	--	--	<0.100	<0.100	--	0.060	--
25.	1035	--	--	--	--	--	<2.0	--	74

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
25.	1024	0.76	0.80	<0.010	<0.010	0.010	--	3.2	<10
25.	1028	0.74	0.80	<0.010	<0.010	0.020	--	3.6	<10
25.	1035	--	--	--	--	--	210	--	--

07263297 LAKE MAUMELLE AT CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
25...	1024	<1	--	<100	--	<1	--	2	--	350
25...	1028	<1	--	<100	--	<1	--	1	--	480
25...	1035	--	5	--	100	--	<1	--	9	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
25...	1024	--	1	--	190	--	<1	<1	--	--
25...	1028	--	2	--	280	--	<1	<1	--	--
25...	1035	17000	--	10	--	410	--	--	<1	50

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
25...	1024	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
25...	1028	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
25...	1035	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
25...	1024	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
25...	1028	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
25...	1035	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
25...	1024	--	<0.01	--	--	--	--	--	--	--
25...	1028	--	<0.01	--	--	--	--	--	--	--
25...	1035	<0.1	--	<1.0	<0.1	<0.1	1.0	0.3	0.1	<0.1

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
25...	1035	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1

07263297 LAKE MAUMELLE AT CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
30...	0900	80513	80020	0.0	18.0	28	5.8	29.5	756	6.2	82
30...	0902	80513	80020	2.00	18.0	28	5.8	29.5	756	6.1	81
30...	0904	80513	80020	3.00	18.0	28	5.8	29.5	756	6.1	80
30...	0906	80513	80020	10.0	18.0	27	5.8	29.5	756	6.0	79
30...	0908	80513	80020	14.0	18.0	30	5.5	28.5	756	2.0	26
30...	0910	80513	80020	16.0	18.0	37	5.6	27.5	756	0.2	3
30...	0912	80513	80020	17.0	18.0	40	5.9	27.0	756	0.2	2
30...	0914	80513	80020	18.0	18.0	75	6.0	25.5	756	0.1	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
30...	0900	1.30	--	--	--	--	--	--	--	--	--
30...	0904	--	1.1	5	2	43	8	1.2	1.1	1.0	21
30...	0908	--	3.0	10	2	28	8	1.4	1.2	1.1	20

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG											
30...	0902	--	--	--	--	--	--	--	--	5.00	0.400
30...	0904	0.2	0.60	7	1.3	3.0	<0.10	20	0.03	--	--
30...	0908	0.2	0.70	8	1.4	3.0	<0.10	18	0.02	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG											
30...	0904	<0.100	<0.100	<0.010	--	0.50	<0.010	<0.010	0.010	3.6	<10
30...	0908	<0.100	<0.100	0.020	0.28	0.30	<0.010	<0.010	0.010	3.6	<10

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN											
31...	0900	80513	80020	0.0	18.0	25	6.3	8.0	760	11.0	93
31...	0902	80513	80020	2.00	18.0	25	6.4	8.0	760	11.0	93
31...	0904	80513	80020	3.00	18.0	26	6.5	8.0	760	10.9	92
31...	0906	80513	80020	10.0	18.0	26	6.5	8.0	760	10.9	92
31...	0908	80513	80020	14.0	18.0	26	6.5	8.0	760	10.9	92
31...	0910	80513	80020	18.0	18.0	26	6.5	8.0	760	10.9	92

07263297 LAKE MAUMELLE AT CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
31...	0900	1.10	--	--	--	--	--	--	--	--	--
31...	0904	--	7.9	47	2	35	8	1.2	1.1	1.3	25
31...	0908	--	8.2	45	5	31	8	1.2	1.1	1.3	25

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN											
31...	0902	--	--	--	--	--	--	--	--	0.800	<0.100
31...	0904	0.2	0.60	5	1.9	3.0	0.10	29	0.04	--	--
31...	0908	0.2	0.70	6	1.9	4.0	0.10	27	0.04	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JAN											
31...	0904	<0.100	<0.100	0.020	0.58	0.60	<0.010	0.010	<0.010	3.0	<10
31...	0908	<0.100	<0.100	0.020	--	<0.20	<0.010	<0.010	0.010	3.0	<10

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)
JAN										
31...	0904	<1	<100	<1	<1	420	1	40	<1	<1
31...	0908	<1	100	<1	<1	470	1	40	<1	<1

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
31...	0904	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31...	0908	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
31...	0904	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31...	0908	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07263297 LAKE MAUMELLE AT CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
APR											
04...	1010	80513	80020	0.0	20.0	22	6.4	14.5	754	9.9	98
04...	1012	80513	80020	2.00	20.0	22	6.4	14.0	754	9.9	97
04...	1014	80513	80020	4.00	20.0	22	6.4	14.0	754	9.6	94
04...	1016	80513	80020	10.0	20.0	23	6.4	13.0	754	9.2	89
04...	1018	80513	80020	16.0	20.0	23	6.3	12.5	754	8.9	85
04...	1020	80513	80020	20.0	20.0	23	6.2	12.5	754	8.2	78

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
04...	1010	0.73	--	--	--	--	--	--	--	--	--
04...	1014	--	9.0	25	16	23	7	1.1	0.93	1.1	25
04...	1018	--	8.0	13	22	58	7	1.2	1.0	1.2	25

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
APR											
04...	1012	--	--	--	--	--	--	--	--	2.10	0.200
04...	1014	0.2	0.50	5	1.9	3.9	<0.10	22	0.03	--	--
04...	1018	0.2	0.60	5	1.8	3.9	<0.10	--	0.02	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
APR										
04...	1014	<0.100	<0.100	<0.010	0.30	<0.010	<0.010	0.020	3.6	<10
04...	1018	<0.100	<0.100	<0.010	0.30	<0.010	0.010	0.020	4.0	<10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
30...	0945	80513	80020	0.0	19.0	26	5.7	29.5	755	6.3	84
30...	0947	80513	80020	1.00	19.0	26	5.8	30.0	755	5.9	79
30...	0948	80513	80020	2.00	19.0	26	5.9	30.0	755	5.9	79
30...	0949	80513	80020	4.00	19.0	26	5.9	30.0	755	5.5	74
30...	0950	80513	80020	5.00	19.0	26	5.9	30.0	755	5.8	78
30...	0952	80513	80020	10.0	19.0	26	5.9	30.0	755	5.5	74
30...	0956	80513	80020	12.0	19.0	25	5.9	30.0	755	5.4	72
30...	0957	80513	80020	14.0	19.0	26	5.9	30.0	755	5.3	71
30...	0958	80513	80020	15.0	19.0	30	5.6	28.5	755	0.3	4
30...	1000	80513	80020	16.0	19.0	40	5.7	27.5	755	0.1	2
30...	1001	80513	80020	17.0	19.0	49	5.8	27.0	755	0.1	2
30...	1002	80513	80020	18.0	19.0	58	5.9	26.5	755	0.1	1
30...	1004	80513	80020	19.0	19.0	65	6.1	25.5	755	0.1	2
31...	0930	80513	80020	--	--	--	--	--	--	--	--

07263297 LAKE MAUMELLE AT CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
AUG									
30...	0945	1.60	--	--	--	--	--	--	--
30...	0949	--	2.3	12	<2	44	8	1.3	1.1
30...	0958	--	2.1	2	3	48	8	1.3	1.2

DATE	TIME	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
AUG									
30...	0949	1.2	23	0.2	0.60	5	1.7	2.9	0.10
30...	0958	1.2	23	0.2	0.60	5	1.7	2.9	<0.10

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
AUG									
30...	0948	--	--	2.20	0.300	--	--	--	--
30...	0949	15	0.02	--	--	<0.100	<0.100	--	<0.010
30...	0958	13	0.02	--	--	<0.100	<0.100	--	<0.010
31...	0930	--	--	--	--	--	--	<2.0	--

DATE	TIME	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG									
30...	0949	--	0.30	<0.010	0.010	0.030	--	3.5	<10
30...	0958	--	0.30	<0.010	<0.010	0.010	--	3.4	<10
31...	0930	13	--	--	--	--	190	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
AUG										
30...	0949	<1	--	<100	--	<1	--	1	--	260
30...	0958	<1	--	<100	--	<1	--	<1	--	300
31...	0930	--	18	--	30	--	<1	--	<10	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
AUG										
30...	0949	--	1	--	120	--	<1	<1	--	--
30...	0958	--	5	--	160	--	<1	<1	--	--
31...	0930	4400	--	<10	--	200	--	--	<1	20

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS

LOCATION.--Lat 34°52'42, long 92°36'17", in NE ¼ sec. 28, T. 3 N., R. 15 W., Pulaski County, Hydrologic Unit 11110207, 0.4 mile downstream from Twin Creek, and 6.9 miles upstream from dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
25...	1235	80513	80020	0.0	20.0	24	6.3	24.0	748	8.5	103
25...	1237	80513	80020	2.00	20.0	24	6.3	24.0	748	8.4	102
25...	1239	80513	80020	4.00	20.0	24	6.3	24.0	748	8.3	101
25...	1241	80513	80020	8.00	20.0	24	6.3	23.0	748	8.2	98
25...	1243	80513	80020	10.0	20.0	24	6.2	22.5	748	8.0	94
25...	1245	80513	80020	13.0	20.0	24	6.1	21.5	748	7.2	84
25...	1247	80513	80020	16.0	20.0	25	5.9	20.5	748	6.4	72
25...	1249	80513	80020	18.0	20.0	26	5.9	20.0	748	5.5	62
25...	1251	80513	80020	20.0	20.0	27	5.8	19.5	748	4.5	50
25...	1300	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
25.	1235	1.30	--	--	--	--	--	--	--	--
25.	1239	--	3.7	15	2	10	7	1.0	1.0	1.0
25.	1247	--	4.9	20	4	37	8	1.2	1.1	1.1

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
25.	1239	23	0.2	0.60	5	1.4	3.0	<0.10	26
25.	1247	22	0.2	0.60	6	1.3	1.0	0.10	15

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
25.	1237	--	2.70	0.500	--	--	--	--	--
25.	1239	0.03	--	--	<0.100	<0.100	--	<0.010	--
25.	1247	0.02	--	--	<0.100	<0.100	--	0.040	--
25.	1300	--	--	--	--	--	3.0	--	44

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
25.	1239	--	0.50	<0.010	<0.010	0.010	--	3.7	10
25.	1247	0.26	0.30	<0.010	<0.010	0.010	--	3.5	<10
25.	1300	--	--	--	--	--	180	--	--

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
25...	1239	<1	--	<100	--	<1	--	1	--	260
25...	1247	<1	--	<100	--	<1	--	1	--	260
25...	1300	--	4	--	80	--	<1	--	7	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
25...	1239	--	3	--	60	--	<1	<1	--	--
25...	1247	--	1	--	140	--	<1	<1	--	--
25...	1300	9400	--	30	--	470	--	--	<1	30

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
25...	1239	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
25...	1247	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
25...	1300	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
25...	1239	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
25...	1247	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
25...	1300	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
25...	1239	--	<0.01	--	--	--	--	--	--	--
25...	1247	--	<0.01	--	--	--	--	--	--	--
25...	1300	<0.1	--	<1.0	<0.1	<0.1	2.0	0.6	5.0	<0.1

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
25...	1300	<0.1	<0.1	<0.1	<10	<0.1	<0.1	4.1	2	<0.1

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
30...	1130	80513	80020	0.0	20.0	27	6.8	29.5	757	7.4	98
30...	1132	80513	80020	2.00	20.0	27	6.8	29.5	757	7.5	99
30...	1134	80513	80020	4.00	20.0	26	6.8	29.5	757	7.4	98
30...	1136	80513	80020	10.0	20.0	27	6.6	29.0	757	7.1	93
30...	1138	80513	80020	16.0	20.0	27	6.0	28.5	757	4.6	60
30...	1140	80513	80020	20.0	20.0	28	5.7	27.5	757	1.9	24

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
30...	1130	2.90	--	--	--	--	--	--	--	--	--
30...	1134	--	0.60	10	8	35	8	1.2	1.1	1.0	21
30...	1138	--	1.1	2	4	19	8	1.2	1.1	1.1	22

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG											
30...	1132	--	--	--	--	--	--	--	--	3.50	0.400
30...	1134	0.2	0.60	7	1.3	3.0	<0.10	19	0.03	--	--
30...	1138	0.2	0.60	7	1.4	3.0	<0.10	21	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG										
30...	1134	<0.100	<0.100	<0.010	<0.20	<0.010	<0.010	<0.010	3.4	20
30...	1138	<0.100	<0.100	<0.010	0.40	<0.010	<0.010	<0.010	3.1	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN											
31...	1300	80513	80020	0.0	18.0	26	6.6	8.0	760	11.6	98
31...	1302	80513	80020	2.00	18.0	26	6.7	7.5	760	11.6	97
31...	1304	80513	80020	3.00	18.0	26	6.7	7.5	760	11.6	97
31...	1306	80513	80020	10.0	18.0	25	6.7	7.5	760	11.6	97
31...	1308	80513	80020	14.0	18.0	25	6.7	7.5	760	11.6	97
31...	1310	80513	80020	18.0	18.0	25	6.7	7.5	760	11.5	96
31...	1320	80513	80020	10.0	18.0	25	6.7	7.5	760	11.6	97

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
31...	1300	2.10	--	--	--	--	--	--	--	--	--
31...	1304	--	2.5	13	0	11	8	1.4	1.1	1.2	22
31...	1308	--	3.1	13	7	8	8	1.3	1.1	1.2	23

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN											
31...	1302	--	--	--	--	--	--	--	--	1.90	0.200
31...	1304	0.2	0.80	6	1.6	3.0	0.10	25	0.03	--	--
31...	1308	0.2	0.60	6	1.6	3.0	0.10	24	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JAN											
31...	1304	<0.100	<0.100	0.010	0.49	0.50	<0.010	<0.010	<0.010	3.4	<10
31...	1308	<0.100	<0.100	0.010	--	<0.20	<0.010	<0.010	0.010	3.4	<10

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)
JAN										
31...	1304	<1	100	<1	<1	120	1	20	<1	<1
31...	1308	<1	100	<1	<1	120	<1	20	<1	<1

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
31...	1304	--	--	--	--	--	--	--	<0.01
31...	1308	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
31...	1304	<0.01	<0.01	<0.01	<0.01	--	--	<0.01
31...	1308	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
APR											
04...	1100	80513	80020	0.0	20.0	22	6.6	14.5	754	10.7	105
04...	1102	80513	80020	2.00	20.0	22	6.6	14.0	754	10.3	101
04...	1104	80513	80020	4.00	20.0	22	6.6	14.0	754	10.2	100
04...	1106	80513	80020	10.0	20.0	23	6.6	13.5	754	9.7	94
04...	1108	80513	80020	16.0	20.0	23	6.6	13.0	754	9.6	92
04...	1110	80513	80020	20.0	20.0	23	6.5	13.0	754	9.1	87

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
04...	1100	0.73	--	--	--	--	--	--	--	--	--
04...	1104	--	7.5	13	13	16	8	1.2	1.1	1.1	22
04...	1108	--	6.5	14	5	26	7	1.2	1.0	1.1	23

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
APR											
04...	1102	--	--	--	--	--	--	--	--	3.20	0.300
04...	1104	0.2	0.60	5	1.8	3.6	<0.10	27	0.04	--	--
04...	1108	0.2	0.70	5	1.9	3.5	<0.10	23	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
APR										
04...	1104	<0.100	<0.100	<0.010	0.30	<0.010	<0.010	0.010	3.9	<10
04...	1108	<0.100	<0.100	<0.010	0.30	<0.010	<0.010	0.010	3.8	10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUL											
03...	1658	80513	80020	0.0	18.0	25	7.5	33.0	760	7.1	99
03...	1659	80513	80020	1.00	18.0	25	7.5	33.0	760	7.1	99
03...	1700	80513	80020	2.00	18.0	24	7.5	33.0	760	7.0	98
03...	1703	80513	80020	3.00	18.0	24	7.5	32.5	760	7.0	97
03...	1704	80513	80020	4.00	18.0	24	7.5	32.5	760	7.0	97
03...	1705	80513	80020	6.00	18.0	24	7.7	31.5	760	7.5	102
03...	1707	80513	80020	8.00	18.0	24	7.9	30.5	760	7.4	99
03...	1708	80513	80020	9.00	18.0	24	7.5	29.5	760	7.6	100
03...	1709	80513	80020	11.0	18.0	24	7.5	28.5	760	7.8	101
03...	1710	80513	80020	12.0	18.0	24	7.1	27.5	760	7.6	97
03...	1711	80513	80020	13.0	18.0	25	6.9	27.0	760	7.5	94
03...	1712	80513	80020	14.0	18.0	24	6.7	27.0	760	7.2	91
03...	1713	80513	80020	16.0	18.0	24	6.5	26.5	760	6.0	75
03...	1714	80513	80020	17.0	18.0	25	6.1	26.0	760	3.3	41
03...	1715	80513	80020	18.0	18.0	28	5.9	25.0	760	1.5	18

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
JUL									
03...	1704	20	17	8	1.2	1.1	1.2	24	0.2
03...	1712	1.4	7	8	1.2	1.1	1.1	22	0.2

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
JUL									
03...	1704	0.60	2.0	2.9	0.20	5	0.01	<0.100	<0.100
03...	1712	0.60	<0.10	<1.0	<0.10	17	--	<0.100	<0.100

DATE	TIME	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JUL									
03...	1704	<0.010	--	0.20	<0.010	<0.010	<0.010	4.0	<10
03...	1712	0.020	0.38	0.40	<0.010	<0.010	0.020	4.0	10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUL											
10...	1109	80513	80020	0.0	19.0	24	7.4	31.0	758	7.6	103
10...	1110	80513	80020	1.00	19.0	24	7.6	31.0	758	7.4	100
10...	1112	80513	80020	4.00	19.0	24	7.7	31.0	758	7.5	102
10...	1117	80513	80020	8.00	19.0	24	7.2	30.5	758	7.4	99
10...	1122	80513	80020	14.0	19.0	24	7.0	30.0	758	7.2	96
10...	1123	80513	80020	15.0	19.0	25	5.9	29.5	758	6.2	82
10...	1124	80513	80020	16.0	19.0	27	5.7	28.5	758	3.2	42
10...	1125	80513	80020	17.0	19.0	27	5.7	26.5	758	2.8	35
10...	1126	80513	80020	18.0	19.0	28	5.8	25.5	758	2.4	29
10...	1127	80513	80020	19.0	19.0	28	6.2	26.0	758	2.2	27

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
JUL										
10...	1109	1.80	--	--	--	--	--	--	--	--
10...	1112	--	1.6	5	8	1.2	1.2	1.2	23	0.2
10...	1122	--	3.5	5	8	1.2	1.1	1.2	24	0.2

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
JUL									
10...	1112	0.50	1.9	2.7	0.30	14	0.02	<0.100	<0.100
10...	1122	0.60	1.7	2.6	0.30	14	0.02	<0.100	<0.100

DATE	TIME	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JUL									
10...	1112	0.010	0.59	0.60	0.030	<0.010	0.020	3.8	<10
10...	1122	0.020	0.48	0.50	0.030	<0.010	0.020	5.1	10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
30...	1203	80513	80020	0.0	17.0	25	6.4	31.0	755	7.3	99
30...	1204	80513	80020	2.00	17.0	25	6.5	31.0	755	7.2	98
30...	1205	80513	80020	4.00	17.0	25	6.6	31.0	755	7.2	98
30...	1206	80513	80020	8.00	17.0	25	6.7	30.5	755	7.2	97
30...	1208	80513	80020	12.0	17.0	25	6.6	30.5	755	7.0	94
30...	1210	80513	80020	14.0	17.0	25	6.2	29.5	755	5.8	77
30...	1211	80513	80020	15.0	17.0	25	6.1	29.5	755	5.4	72
30...	1212	80513	80020	16.0	17.0	26	5.9	29.0	755	3.8	50
30...	1213	80513	80020	17.0	17.0	26	5.7	28.5	755	2.9	38
31...	0950	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
AUG										
30.	1203	2.60	--	--	--	--	--	--	--	--
30.	1205	--	1.3	3	3	4	8	1.3	1.2	1.2
30.	1210	--	1.6	5	4	30	8	1.3	1.1	1.2

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
AUG									
30.	1205	23	0.2	0.60	5	1.7	3.0	0.10	16
30.	1210	23	0.2	0.60	5	1.6	2.8	<0.10	10

07263298 LAKE MAUMELLE NEAR CROSSROADS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
AUG									
30.	1204	--	1.00	0.100	--	--	--	--	--
30.	1205	0.02	--	--	<0.100	<0.100	--	0.010	--
30.	1210	0.01	--	--	<0.100	<0.100	--	0.050	--
31.	0950	--	--	--	--	--	<2.0	--	63

DATE	TIME	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
AUG									
30.	1205	0.19	0.20	<0.010	0.020	0.020	--	3.2	<10
30.	1210	0.15	0.20	<0.010	0.010	0.020	--	3.4	<10
31.	0950	--	--	--	--	--	260	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
AUG										
30...	1205	<1	--	<100	--	1	--	6	--	70
30...	1210	<1	--	<100	--	<1	--	<1	--	130
31...	0950	--	56	--	50	--	<1	--	<10	--

DATE	TIME	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG										
30...	1205	--	1	--	40	--	<1	<1	--	--
30...	1210	--	<1	--	50	--	<1	<1	--	--
31...	0950	15000	--	30	--	610	--	--	<1	50

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
AUG									
30...	1205	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1210	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
AUG								
30...	1205	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1210	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS

LOCATION.--Lat 34°42'34", long 92°30'07", in NE ¼ sec. 26, T. 3 N., R 15 W., Pulaski County, Hydrologic Unit 11110207, 1.0 mile downstream from Worthen Creek, and 5.0 miles upstream from dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
26...	1045	80513	80020	0.0	50.0	24	6.3	24.5	749	8.5	104
26...	1047	80513	80020	2.00	50.0	24	6.4	24.5	749	8.4	103
26...	1049	80513	80020	6.00	50.0	24	6.4	24.5	749	8.3	101
26...	1051	80513	80020	9.00	50.0	24	6.4	24.0	749	8.2	99
26...	1053	80513	80020	10.0	50.0	24	6.3	24.0	749	8.2	99
26...	1055	80513	80020	14.0	50.0	24	6.2	23.0	749	7.8	93
26...	1057	80513	80020	16.0	50.0	24	6.1	22.0	749	7.4	86
26...	1059	80513	80020	18.0	50.0	24	6.0	21.5	749	7.4	85
26...	1101	80513	80020	20.0	24.0	24	6.0	21.0	749	7.4	85
26...	1103	80513	80020	22.0	50.0	24	5.9	20.0	749	6.8	76
26...	1105	80513	80020	23.0	50.0	25	5.7	19.5	749	5.4	60
26...	1107	80513	80020	24.0	50.0	26	5.7	18.5	749	4.5	48
26...	1109	80513	80020	28.0	50.0	29	5.7	18.0	749	3.6	39
26...	1111	80513	80020	30.0	50.0	29	5.7	17.5	749	3.5	38
26...	1113	80513	80020	37.0	50.0	29	5.7	17.5	749	3.4	36
26...	1115	80513	80020	40.0	50.0	29	5.7	17.5	749	3.2	34
26...	1117	80513	80020	50.0	50.0	32	5.8	17.0	749	2.3	24
26...	1130	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
26.	1045	2.10	--	--	--	--	--	--	--	--
26.	1053	--	1.7	15	0	K400	7	1.1	1.1	1.2
26.	1115	--	2.3	18	14	K380	8	1.4	1.2	1.1

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
26.	1053	24	0.2	0.80	4	1.3	4.0	0.10	11
26.	1115	20	0.2	0.70	7	1.4	3.0	<0.10	27

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
26.	1047	--	2.60	0.300	--	--	--	--	--
26.	1053	0.02	--	--	<0.100	<0.100	--	<0.010	--
26.	1115	0.04	--	--	<0.100	<0.100	--	0.100	--
26.	1130	--	--	--	--	--	3.0	--	83

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAY									
26.	1053	--	0.40	<0.010	<0.010	0.020	--	3.4	10
26.	1115	0.30	0.40	<0.010	<0.010	0.010	--	3.2	<10
26.	1130	--	--	--	--	--	420	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
MAY										
26...	1053	<1	--	<100	--	<1	--	<1	--	150
26...	1115	<1	--	<100	--	<1	--	<1	--	330
26...	1130	--	11	--	140	--	<1	--	10	--

DATE	TIME	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
MAY										
26...	1053	--	2	--	40	--	<1	<1	--	--
26...	1115	--	2	--	690	--	<1	<1	--	--
26...	1130	30000	--	30	--	610	--	--	<1	60

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39399)	MALA-THION, TOTAL (UG/L) (39530)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39531)	PARA-THION, TOTAL (UG/L) (39540)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39541)	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39571)	METHYL PARA-THION, TOTAL (UG/L) (39600)
MAY										
26...	1053	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
26...	1115	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
26...	1130	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39787)	METHYL TRI-THION, TOTAL (UG/L) (39790)
MAY										
26...	1053	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
26...	1115	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
26...	1130	<0.1	--	--	--	--	--	--	<0.1	--

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39343)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39373)
MAY										
26...	1053	--	<0.01	--	--	--	--	--	--	--
26...	1115	--	<0.01	--	--	--	--	--	--	--
26...	1130	<0.1	--	<1.0	<0.1	<0.1	2.0	1.0	7.7	<0.1

DATE	TIME	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39383)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39393)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39403)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39758)
MAY										
26...	1130	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	1	<0.1

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG											
30...	0940	80513	80020	0.0	50.0	26	6.3	29.0	756	8.0	106
30...	0942	80513	80020	2.00	50.0	27	6.5	29.0	756	7.6	100
30...	0944	80513	80020	9.00	50.0	27	6.5	29.0	756	7.4	98
30...	0946	80513	80020	10.0	50.0	26	6.6	29.0	756	7.4	98
30...	0948	80513	80020	18.0	50.0	26	6.2	29.0	756	6.9	90
30...	0950	80513	80020	19.0	50.0	27	5.9	27.5	756	3.0	38
30...	0952	80513	80020	20.0	50.0	27	5.6	26.5	756	2.0	25
30...	0954	80513	80020	21.0	50.0	28	5.5	25.5	756	0.6	8
30...	0956	80513	80020	22.0	50.0	33	5.6	24.0	756	0.1	2
30...	0958	80513	80020	23.0	50.0	38	5.6	23.0	756	0.1	1
30...	1000	80513	80020	25.0	50.0	48	5.8	22.0	756	0.1	1
30...	1002	80513	80020	27.0	50.0	67	6.1	21.0	756	0.2	2
30...	1004	80513	80020	30.0	50.0	78	6.3	20.0	756	0.1	1
30...	1006	80513	80020	37.0	50.0	77	6.4	20.0	756	0.1	1
30...	1008	80513	80020	40.0	50.0	78	6.4	20.0	756	0.1	1
30...	1010	80513	80020	50.0	50.0	78	6.5	19.5	756	0.1	1

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
30...	0940	3.50	--	--	--	--	--	--	--	--	--
30...	0946	--	0.50	5	4	17	7	1.2	1.0	1.0	22
30...	1008	--	3.5	140	1	12	11	2.2	1.4	1.1	16

DATE	TIME	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
AUG											
30...	0942	--	--	--	--	--	--	--	--	4.30	0.500
30...	0946	0.2	0.60	7	1.3	3.0	<0.10	19	0.03	--	--
30...	1008	0.1	0.70	23	2.5	<1.0	<0.10	45	--	--	--

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
AUG											
30...	0946	<0.100	<0.100	<0.010	--	<0.20	<0.010	<0.010	<0.010	3.6	20
30...	1008	<0.100	<0.100	0.510	0.19	0.70	0.010	0.020	0.040	6.1	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN											
31...	1000	80513	80020	0.0	45.0	26	6.9	7.5	760	12.0	100
31...	1002	80513	80020	2.00	45.0	26	6.8	7.5	760	11.9	99
31...	1004	80513	80020	9.00	45.0	26	6.9	7.5	760	11.8	99
31...	1006	80513	80020	10.0	45.0	26	6.9	7.5	760	11.8	99
31...	1008	80513	80020	20.0	45.0	26	6.9	7.5	760	11.7	98
31...	1010	80513	80020	30.0	45.0	26	6.9	7.5	760	11.7	98
31...	1012	80513	80020	36.0	45.0	26	6.9	7.5	760	11.7	98
31...	1014	80513	80020	40.0	45.0	26	6.9	7.5	760	11.6	97
31...	1016	80513	80020	45.0	45.0	25	6.9	7.5	760	11.5	96

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
31...	1000	2.70	--	--	--	--	--	--	--	--	--
31...	1004	--	2.0	15	1	2	8	1.4	1.1	1.2	23
31...	1012	--	1.9	7	2	3	8	1.4	1.1	1.2	23

DATE	TIME	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN											
31...	1002	--	--	--	--	--	--	--	--	2.20	0.200
31...	1004	0.2	0.70	6	1.6	3.0	0.10	25	0.03	--	--
31...	1012	0.2	0.60	6	1.6	3.0	0.10	29	0.04	--	--

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
JAN										
31...	1004	<0.100	<0.100	<0.010	<0.20	<0.010	<0.010	0.020	3.1	20
31...	1012	<0.100	<0.100	0.010	<0.20	<0.010	<0.010	<0.010	3.0	<10

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
JAN										
31...	1004	<1	100	<1	<1	60	<1	20	<1	<1
31...	1012	<1	<100	<1	<1	100	1	30	<1	<1

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
JAN									
31...	1004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31...	1012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
JAN								
31...	1004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31...	1012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
APR											
04...	1230	80513	80020	0.0	45.0	23	6.5	17.0	754	10.5	109
04...	1232	80513	80020	2.00	45.0	22	6.5	14.0	754	10.4	102
04...	1234	80513	80020	9.00	45.0	22	6.6	14.0	754	10.2	100
04...	1236	80513	80020	10.0	45.0	22	6.6	14.0	754	10.2	99
04...	1238	80513	80020	20.0	45.0	23	6.6	13.5	754	9.9	96
04...	1240	80513	80020	30.0	45.0	23	6.5	13.0	754	8.6	82
04...	1242	80513	80020	36.0	45.0	23	6.4	12.5	754	8.5	81
04...	1244	80513	80020	40.0	45.0	24	6.3	12.5	754	8.4	79
04...	1246	80513	80020	45.0	45.0	23	6.3	12.5	754	8.2	78

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
04...	1230	1.30	--	--	--	--	--	--	--	--	--
04...	1234	--	3.3	8	3	8	7	1.2	1.0	1.1	23
04...	1242	--	3.5	14	1	2	8	1.3	1.1	1.2	23

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
APR											
04...	1232	--	--	--	--	--	--	--	--	3.80	0.400
04...	1234	0.2	0.60	5	1.9	3.3	<0.10	25	0.03	--	--
04...	1242	0.2	0.60	5	2.1	3.9	0.20	23	0.03	--	--

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
APR											
04...	1234	<0.100	<0.100	<0.010	--	0.30	<0.010	<0.010	0.020	3.8	<10
04...	1242	<0.100	<0.100	0.020	0.28	0.30	<0.010	<0.010	0.010	3.5	<10

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG											
31...	1015	80513	80020	0.0	43.0	25	6.6	30.0	757	7.3	97
31...	1017	80513	80020	2.00	43.0	25	6.6	30.0	757	7.1	95
31...	1019	80513	80020	9.00	43.0	25	6.7	29.5	757	6.6	87
31...	1021	80513	80020	10.0	43.0	25	6.7	29.5	757	6.6	87
31...	1023	80513	80020	20.0	43.0	25	6.3	29.0	757	4.2	55
31...	1025	80513	80020	21.0	43.0	26	6.0	27.5	757	1.6	20
31...	1027	80513	80020	22.0	43.0	30	5.7	25.5	757	0.2	2
31...	1029	80513	80020	23.0	43.0	31	5.7	25.0	757	0.1	1
31...	1031	80513	80020	24.0	43.0	40	5.7	23.5	757	0.1	1
31...	1033	80513	80020	25.0	43.0	71	5.9	21.0	757	0.1	1
31...	1035	80513	80020	30.0	43.0	76	6.2	21.0	757	0.1	1
31...	1037	80513	80020	36.0	43.0	77	6.2	20.5	757	0.2	2
31...	1039	80513	80020	40.0	43.0	77	6.4	20.0	757	0.1	1
31...	1041	80513	80020	43.0	43.0	77	6.4	20.0	757	0.2	2
31...	1043	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG										
31.	1015	3.50	--	--	--	--	--	--	--	--
31.	1019	--	1.0	1	0	69	7	1.2	1.0	1.2
31.	1037	--	6.1	200	0	9	12	2.3	1.5	1.2

DATE	TIME	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
AUG									
31.	1019	25	0.2	0.60	5	1.8	2.9	<0.10	12
31.	1037	17	0.2	0.80	19	2.0	1.0	<0.10	39

07263299 LAKE MAUMELLE NEAR LITTLE ITALY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
AUG									
31.	1017	--	1.40	0.300	--	--	--	--	--
31.	1019	0.02	--	--	<0.100	<0.100	--	0.040	--
31.	1037	0.05	--	--	<0.100	<0.100	--	0.180	--
31.	1043	--	--	--	--	--	<2.0	--	75

DATE	TIME	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
AUG									
31.	1019	0.26	0.30	<0.010	<0.010	0.020	--	3.3	<10
31.	1037	0.52	0.70	<0.010	<0.010	<0.010	--	5.4	<10
31.	1043	--	--	--	--	--	420	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
AUG										
31...	1019	<1	--	<100	--	<1	--	1	--	60
31...	1037	10	--	<100	--	<1	--	<1	--	8400
31...	1043	--	68	--	120	--	<1	--	<10	--

DATE	TIME	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG										
31...	1019	--	1	--	40	--	<1	<1	--	--
31...	1037	--	2	--	4200	--	<1	<1	--	--
31...	1043	28000	--	40	--	740	--	--	<1	60

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
AUG									
31...	1019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
AUG								
31...	1019	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS

LOCATION.--Lat 34°51'39", long 92°23'07", in NW ¼ sec. 33, T. 3 N., R. 14 W., Pulaski County, Hydrologic Unit 11110207, at 1.0 mile upstream from dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
26...	1230	80513	80020	0.0	38.0	24	6.6	25.0	755	8.4	103
26...	1232	80513	80020	2.00	38.0	24	6.6	25.0	755	8.3	101
26...	1234	80513	80020	5.00	38.0	24	6.6	24.5	755	8.2	100
26...	1236	80513	80020	8.00	38.0	24	6.6	24.5	755	8.2	99
26...	1238	80513	80020	10.0	38.0	24	6.6	24.5	755	8.2	99
26...	1240	80513	80020	17.0	38.0	24	6.5	24.0	755	8.1	98
26...	1242	80513	80020	20.0	38.0	24	6.3	23.0	755	8.1	95
26...	1244	80513	80020	21.0	38.0	24	6.2	22.0	755	7.5	86
26...	1246	80513	80020	22.0	38.0	24	6.1	21.0	755	7.3	83
26...	1248	80513	80020	23.0	38.0	24	5.9	20.0	755	6.8	76
26...	1250	80513	80020	26.0	38.0	25	5.8	19.0	755	5.6	61
26...	1252	80513	80020	30.0	38.0	27	5.8	18.0	755	4.2	45
26...	1254	80513	80020	38.0	38.0	30	5.8	17.5	755	3.2	34
26...	1300	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
26.	1230	2.10	--	--	--	--	--	--	--	--
26.	1236	--	1.7	15	2	62	7	1.1	1.1	1.1
26.	1252	--	1.8	15	0	38	8	1.3	1.2	1.1

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
26.	1236	23	0.2	0.70	6	1.3	3.0	0.10	19
26.	1252	21	0.2	0.60	7	1.4	3.0	0.10	22

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
26.	1232	--	2.50	0.200	--	--	--	--	--
26.	1236	0.03	--	--	<0.100	<0.100	--	0.010	--
26.	1252	0.03	--	--	<0.100	<0.100	--	0.060	--
26.	1300	--	--	--	--	--	<2.0	--	60

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
26.	1236	0.59	0.60	<0.010	<0.010	0.010	--	3.5	<10
26.	1252	--	<0.20	<0.010	0.010	0.010	--	3.1	20
26.	1300	--	--	--	--	--	430	--	--

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
26...	1236	<1	--	<100	--	<1	--	<1	--	100
26...	1252	<1	--	<100	--	<1	--	<1	--	180
26...	1300	--	9	--	190	--	<1	--	10	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
26...	1236	--	5	--	30	--	<1	<1	--	--
26...	1252	--	2	--	300	--	<1	<1	--	--
26...	1300	24000	--	20	--	970	--	--	<1	80

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
26...	1236	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
26...	1252	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
26...	1300	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
26...	1236	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
26...	1252	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
26...	1300	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
26...	1236	--	<0.01	--	--	--	--	--	--	--
26...	1252	--	<0.01	--	--	--	--	--	--	--
26...	1300	<0.1	--	<1.0	<0.1	<0.1	<1.0	4.4	8.2	<10

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
26...	1300	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<1.0	<10	<0.1

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
30...	1030	80513	80020	0.0	38.0	26	7.7	29.0	757	7.8	103
30...	1032	80513	80020	2.00	38.0	26	7.8	29.0	757	7.7	101
30...	1034	80513	80020	7.00	38.0	26	7.8	29.0	757	7.6	100
30...	1036	80513	80020	10.0	38.0	26	7.8	29.0	757	7.6	100
30...	1038	80513	80020	19.0	38.0	27	6.9	28.0	757	5.2	67
30...	1040	80513	80020	20.0	38.0	27	6.2	27.0	757	3.6	45
30...	1042	80513	80020	23.0	38.0	28	5.7	26.0	757	1.2	15
30...	1044	80513	80020	24.0	38.0	35	5.7	24.0	757	0.2	3
30...	1046	80513	80020	25.0	38.0	40	5.7	23.0	757	0.2	2
30...	1048	80513	80020	26.0	38.0	47	5.9	22.5	757	0.2	2
30...	1050	80513	80020	28.0	38.0	58	6.1	21.5	757	0.1	1
30...	1052	80513	80020	30.0	38.0	67	6.2	20.5	757	0.1	1
30...	1054	80513	80020	38.0	38.0	75	6.4	19.5	757	0.1	1

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
30...	1030	3.60	--	--	--	--	--	--	--	--	--
30...	1034	--	0.40	5	5	200	7	1.1	0.94	1.0	23
30...	1052	--	3.5	110	0	49	11	2.1	1.5	1.2	17

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG											
30...	1032	--	--	--	--	--	--	--	--	3.20	0.600
30...	1034	0.2	0.50	6	1.3	3.0	<0.10	23	0.03	--	--
30...	1052	0.2	0.70	21	1.9	<1.0	<0.10	37	--	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG											
30...	1034	<0.100	<0.100	<0.010	--	0.30	<0.010	<0.010	<0.010	3.5	<10
30...	1052	<0.100	<0.100	0.300	0.20	0.50	0.020	0.020	0.040	5.0	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN											
31...	1100	80513	80020	0.0	35.0	25	6.6	7.5	760	12.2	102
31...	1102	80513	80020	2.00	35.0	25	6.7	7.5	760	12.0	100
31...	1104	80513	80020	7.00	35.0	25	6.7	7.5	760	11.9	99
31...	1106	80513	80020	10.0	35.0	25	6.8	7.5	760	11.8	99
31...	1108	80513	80020	20.0	35.0	26	6.8	7.0	760	11.8	97
31...	1110	80513	80020	28.0	35.0	26	6.8	7.0	760	11.7	97
31...	1112	80513	80020	30.0	35.0	25	6.8	7.0	760	11.7	97
31...	1114	80513	80020	35.0	35.0	25	6.8	7.0	760	11.6	96

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
31...	1100	3.20	--	--	--	--	--	--	--	--	--
31...	1104	--	1.6	7	--	--	8	1.4	1.1	1.2	23
31...	1110	--	1.6	5	1	33	8	1.4	1.1	1.2	23

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN											
31...	1102	--	--	--	--	--	--	--	--	3.20	0.300
31...	1104	0.2	0.60	--	1.5	3.0	0.10	16	0.02	--	--
31...	1110	0.2	0.60	6	1.6	3.0	0.10	29	0.04	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JAN										
31...	1104	<0.100	<0.100	0.030	<0.20	<0.010	<0.010	0.010	2.8	<10
31...	1110	<0.100	<0.100	0.010	<0.20	0.130	<0.010	0.020	3.0	<10

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)
JAN										
31...	1104	<1	<100	<1	<1	80	1	30	<1	<1
31...	1110	<1	100	<1	<1	70	1	20	<1	<1

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
31...	1104	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31...	1110	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
31...	1104	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31...	1110	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
APR											
04...	1330	80513	80020	0.0	39.0	23	6.6	17.5	753	10.7	113
04...	1332	80513	80020	2.00	39.0	23	6.7	16.0	753	10.4	107
04...	1334	80513	80020	8.00	39.0	23	6.8	15.5	753	10.3	104
04...	1336	80513	80020	10.0	39.0	23	6.9	15.0	753	10.2	103
04...	1338	80513	80020	20.0	39.0	23	6.9	15.0	753	9.9	99
04...	1340	80513	80020	24.0	39.0	24	6.6	14.0	753	9.6	94
04...	1342	80513	80020	30.0	39.0	24	6.5	13.5	753	9.0	88
04...	1344	80513	80020	31.0	39.0	24	6.4	13.5	753	8.9	87
04...	1346	80513	80020	39.0	39.0	25	6.4	13.0	753	8.2	78

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
04...	1330	1.40	--	--	--	--	--	--	--	--	--
04...	1334	--	2.8	12	0	0	7	1.2	1.0	1.2	25
04...	1344	--	2.6	13	1	0	8	1.3	1.1	1.2	24

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
APR											
04...	1332	--	--	--	--	--	--	--	--	2.00	0.200
04...	1334	0.2	0.60	5	2.0	3.9	0.20	15	0.02	--	--
04...	1344	0.2	0.50	5	1.9	4.1	0.20	21	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
APR										
04...	1334	<0.100	<0.100	<0.010	0.30	<0.010	<0.010	0.010	3.6	<10
04...	1344	<0.100	<0.100	<0.010	0.20	<0.010	<0.010	0.010	3.5	<10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SPECIFIC CONDUCTANCE (US/CM) (00095)
JUN							
25.	0940	80513	80020	0.0	36.0	2.40	23
25.	0942	80513	80020	2.00	36.0	--	23
25.	0944	80513	80020	10.0	36.0	--	23
25.	0946	80513	80020	12.0	36.0	--	24
25.	0948	80513	80020	13.0	36.0	--	24
25.	0950	80513	80020	14.0	36.0	--	24
25.	0952	80513	80020	15.0	36.0	--	24
25.	0954	80513	80020	17.0	36.0	--	24
25.	0956	80513	80020	20.0	36.0	--	24
25.	0958	80513	80020	25.0	36.0	--	29
25.	1000	80513	80020	30.0	36.0	--	30
25.	1002	80513	80020	36.0	36.0	--	33

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JUN						
25.	0940	6.8	29.0	758	7.5	98
25.	0942	6.9	29.0	758	7.4	97
25.	0944	6.8	28.5	758	7.2	93
25.	0946	6.6	27.5	758	6.8	87
25.	0948	6.1	26.5	758	6.1	76
25.	0950	6.2	24.5	758	6.8	82
25.	0952	6.1	23.5	758	6.0	71
25.	0954	5.7	22.5	758	4.1	48
25.	0956	5.6	21.5	758	3.6	41
25.	0958	5.5	20.5	758	1.4	16
25.	1000	5.5	20.0	758	0.7	8
25.	1002	5.6	19.5	758	0.2	2

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG											
31...	1300	80513	80020	0.0	40.0	25	7.2	30.0	757	7.2	96
31...	1302	80513	80020	2.00	40.0	25	7.3	30.0	757	7.1	95
31...	1304	80513	80020	7.00	40.0	25	7.4	30.0	757	6.9	92
31...	1306	80513	80020	10.0	40.0	25	7.5	30.0	757	6.9	92
31...	1308	80513	80020	15.0	40.0	25	7.4	29.0	757	6.6	86
31...	1310	80513	80020	17.0	40.0	25	6.9	28.0	757	5.4	70
31...	1312	80513	80020	20.0	40.0	26	6.2	27.0	757	2.8	35
31...	1314	80513	80020	22.0	40.0	27	5.8	26.0	757	1.0	12
31...	1316	80513	80020	24.0	40.0	27	5.6	25.0	757	0.2	2
31...	1318	80513	80020	26.0	40.0	31	5.6	24.0	757	0.1	1
31...	1320	80513	80020	27.0	40.0	42	5.8	23.0	757	0.1	1
31...	1322	80513	80020	28.0	40.0	51	6.0	22.0	757	0.1	1
31...	1324	80513	80020	30.0	40.0	64	6.1	21.5	757	0.1	1
31...	1326	80513	80020	32.0	40.0	71	6.3	20.5	757	0.1	1
31...	1328	80513	80020	40.0	40.0	74	6.4	20.0	757	0.1	1
31...	1330	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
AUG									
31...	1300	3.40	--	--	--	--	--	--	--
31...	1304	--	5.5	1	0	10	8	1.3	1.1
31...	1324	--	2.3	8	8	39	10	1.6	1.4

DATE	TIME	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
AUG									
31...	1304	1.2	23	0.2	0.60	6	1.7	2.9	<0.10
31...	1324	1.2	20	0.2	0.70	10	1.7	2.2	<0.10

072632995 LAKE MAUMELLE NEAR NATURAL STEPS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
AUG									
31...	1302	--	--	1.80	0.300	--	--	--	--
31...	1304	19	0.03	--	--	<0.100	<0.100	--	<0.010
31...	1324	24	0.03	--	--	<0.100	<0.100	--	<0.010
31...	1330	--	--	--	--	--	--	<2.0	--

DATE	TIME	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
AUG									
31...	1304	--	0.50	<0.010	<0.010	<0.010	--	3.4	<10
31...	1324	--	0.40	<0.010	<0.010	0.020	--	3.5	<10
31...	1330	69	--	--	--	--	600	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
AUG										
31...	1304	<1	--	<100	--	<1	--	1	--	50
31...	1324	2	--	<100	--	<1	--	<1	--	530
31...	1330	--	70	--	160	--	<1	--	<10	--

DATE	TIME	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG										
31...	1304	--	2	--	40	--	<1	<1	--	--
31...	1324	--	1	--	1400	--	<1	<1	--	--
31...	1330	22000	--	40	--	1200	--	--	<1	60

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
AUG									
31...	1324	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
AUG								
31...	1324	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, ARKANSAS

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.

DRAINAGE AREA.--158,030 mi², of which 22,241 mi² 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 since 1883 at site 5.5 mi downstream, 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 National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, Oct. 1, 1934, to May 9, 1970, recording gage at site 6.2 mi downstream at datum 223.61 ft higher. Sept. 20, 1968, to May 9, 1970, auxiliary water-stage recorder 5.5 mi upstream from former gage.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated upstream by many locks, dams, and reservoirs. On Oct. 7, 1988, the North Little Rock Electric Department hydroplant began operation, and discharges at the hydroplant are added to flows from the lock and dam.

AVERAGE DISCHARGE.--63 years, 42,320 ft³/s, 30,660,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 536,000 ft³/s May 27, 1943, gage height, 30.05 ft, site and datum then in use; minimum daily, 14 ft³/s Oct. 25, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1833 reached a stage of 34.6 ft former site and datum. Flood of Apr. 20, 1927, reached a stage of 33.0 ft, former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 406,000 ft³/s May 7, 8, tailwater elevation, 256.97 ft; minimum daily, 50 ft³/s Dec. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37600	26100	4020	e780	62500	85000	180000	179000	169000	35300	8260	3860
2	34400	22200	9660	e4900	131000	97100	178000	185000	166000	42400	9540	3330
3	37200	28600	4680	e8700	166000	112000	176000	218000	164000	44400	9040	4410
4	30200	18600	11600	e12000	131000	114000	172000	292000	164000	43100	14000	3920
5	28100	16300	3270	e5200	92600	101000	172000	356000	166000	36200	8290	12600
6	27100	21400	3380	e12000	70900	89400	173000	388000	160000	40800	1080	10100
7	35600	22400	964	e1900	60600	94300	170000	402000	156000	35600	103	8680
8	27500	22800	2100	e3700	53900	153000	170000	404000	148000	35500	672	70
9	17600	24400	1100	e2000	60700	176000	171000	382000	141000	17200	12600	1020
10	18200	17400	1370	e3600	62900	170000	169000	347000	137000	33300	8220	492
11	20300	2480	4720	e9100	53700	158000	171000	310000	130000	23700	3230	1150
12	31100	596	11300	e15000	58100	152000	173000	287000	114000	28300	2220	5690
13	30900	575	9660	e16000	62400	171000	169000	269000	98100	22800	8430	2900
14	22100	2930	1300	e1600	48600	180000	167000	247000	88000	22100	10600	2460
15	21100	4160	7350	e1200	61000	191000	167000	215000	67500	2430	11300	1310
16	23200	18300	1880	e530	95700	208000	147000	190000	67400	1700	12800	168
17	25200	6320	848	e13000	116000	218000	129000	177000	68700	2310	19000	916
18	999	3690	1520	e37000	105000	217000	155000	178000	70400	1780	13300	1730
19	927	1990	2440	e38000	85400	192000	175000	183000	74300	11900	1490	789
20	930	2080	1540	e75000	62800	176000	181000	182000	67800	9230	6870	5000
21	429	2210	2060	e110000	60600	170000	181000	185000	65500	5200	20500	17100
22	65	2320	8200	e97000	60700	169000	210000	178000	69200	2890	10300	36100
23	656	1640	8760	e51000	68400	167000	227000	183000	62700	5490	14000	34500
24	1080	2410	4450	e44000	79800	169000	216000	177000	65100	4310	15000	12500
25	3270	1620	e2000	e41000	83100	169000	187000	172000	69000	11000	4680	12700
26	8150	1250	e700	e91000	75200	170000	172000	161000	68300	5490	1340	28600
27	2220	4390	e50	e50000	70600	170000	167000	160000	64400	13500	4730	22200
28	1160	23400	e230	e41000	71700	171000	176000	165000	52900	11100	7100	11600
29	809	3920	e800	e46000	---	183000	177000	169000	47800	1750	12700	9420
30	1260	3040	e2900	e48000	---	182000	184000	168000	42300	3550	8420	4760
31	15100	---	e280	e47000	---	182000	---	169000	---	8040	8220	---
TOTAL	504455	309521	115132	927210	2210900	4956800	5262000	7278000	3024400	562370	268035	260075
MEAN	16270	10320	3714	29910	78960	159900	175400	234800	100800	18140	8646	8669
MAX	37600	28600	11600	110000	166000	218000	227000	404000	169000	44400	20500	36100
MIN	65	575	50	530	48600	85000	129000	160000	42300	1700	103	70
AC-FT	1001000	613900	228400	1839000	4385000	9832000	10440000	14440000	5999000	1115000	531600	515900

CAL YR 1989 TOTAL 15861038 MEAN 43450 MAX 209000 MIN 50 AC-FT 31460000
WTR YR 1990 TOTAL 25678898 MEAN 70350 MAX 404000 MIN 50 AC-FT 50930000

e Estimated

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17...	1110	9827	9827	30200	8.2	22.0	10	8.5	1.1
NOV									
14...	1222	9827	9827	2620	8.6	19.0	6.2	10.8	2.6
JAN									
02...	1300	9827	9827	9780	8.4	5.0	3.0	13.0	1.5
16...	1150	9827	9827	530	8.5	8.0	4.5	6.4	14
FEB									
13...	1215	9827	9827	62500	7.3	13.0	40	10.0	1.3
MAR									
20...	1145	9827	9827	174000	7.6	14.0	110	9.2	1.3
APR									
10...	1110	9827	9827	170000	7.8	15.0	60	10.7	--
MAY									
01...	1315	9827	9827	177000	7.8	18.0	65	8.9	0.6
JUN									
26...	1233	9827	9827	68400	8.0	28.0	--	7.9	0.9
JUL									
24...	1230	9827	9827	3400	8.2	30.0	--	8.0	2.1
AUG									
21...	1038	9827	9827	20700	8.6	31.0	--	8.5	1.5
SEP									
18...	1235	9827	9827	1550	8.5	27.0	--	7.8	2.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
17...	1110	140	60	93	--	13	0.180	0.070	0.80
NOV									
14...	1222	160	63	--	434	8	0.060	<0.050	0.58
JAN									
02...	1300	170	66	120	406	4	<0.020	<0.050	1.3
16...	1150	160	64	120	447	7	<0.020	<0.050	0.80
FEB									
13...	1215	66	28	--	176	24	0.370	<0.050	0.62
MAR									
20...	1145	70	26	54	175	100	0.340	0.080	0.80
APR									
10...	1110	110	36	51	246	44	0.450	0.060	1.2
MAY									
01...	1315	76	32	46	209	58	0.460	0.060	0.50
JUN									
26...	1233	110	36	36	193	24	0.250	<0.050	0.62
JUL									
24...	1230	120	38	51	223	4	0.050	0.270	--
AUG									
21...	1038	130	45	61	256	6	<0.020	0.060	0.56
SEP									
18...	1235	130	40	68	290	14	--	<0.050	0.68

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
17...	1110	0.080	0.060	<1	<1	<15	4	--	6.4
NOV									
14...	1222	0.130	0.050	<1	2	<15	<2	<10	--
JAN									
02...	1300	0.040	<0.030	--	--	--	--	--	5.0
16...	1150	0.060	<0.030	--	--	--	--	--	--
FEB									
13...	1215	0.100	0.040	--	--	--	--	--	4.8
MAR									
20...	1145	0.200	0.070	--	--	--	--	--	8.8
APR									
10...	1110	0.130	0.080	--	--	--	--	--	8.2
MAY									
01...	1315	0.150	0.080	--	--	--	--	--	7.9
JUN									
26...	1233	0.070	0.030	--	--	--	--	--	5.5
JUL									
24...	1230	0.040	--	--	--	--	--	--	5.6
AUG									
21...	1038	0.050	<0.030	--	--	--	--	--	4.7
SEP									
18...	1235	0.050	<0.030	--	--	--	--	--	6.8

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, ARKANSAS

(National radiochemical station)
(National stream-quality accounting network)

LOCATION.--Lat 34°40'07", long 92°09'18", in 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 downstream from Main Street bridge at Little Rock, and at mile 124.2.

DRAINAGE AREA.--158,288 mi², of which 22,241 mi² is probably noncontributing.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1970 to September 1978, October 1980 to September 1981.
pH: April 1970 to September 1978.
WATER TEMPERATURES: October 1969 to September 1978, October 1980 to September 1981.
DISSOLVED OXYGEN: October 1969 to September 1978.

INSTRUMENTATION.--Water-quality monitor October 1969 to September 1981.

REMARKS.--Discharge figures are for station 07263450, 16.8 mi upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NOV 20...	0845	80513	80020	1970	845	8.4	16.5	3.8	8.6	89
JAN 02...	1230	80513	80020	3300	790	8.2	5.0	1.4	12.4	97
MAR 26...	0930	80513	80020	169000	398	7.9	11.0	38	10.8	97
JUN 05...	1100	80513	80020	165000	290	7.6	22.0	--	8.2	94
JUL 09...	0800	80513	80020	10800	350	8.1	30.0	9.5	7.2	96
SEP 04...	0815	80513	80020	4180	520	8.1	30.0	1.8	7.2	95

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV 20...	0845	759	210	22	160	47	45	11	95	56
JAN 02...	1230	764	1200	260	150	43	43	10	89	56
MAR 26...	0930	768	K24	91	110	22	31	7.7	33	39
JUN 05...	1100	758	K51	150	--	--	--	--	--	--
JUL 09...	0800	760	14	20	110	21	31	6.8	26	34
SEP 04...	0815	763	1	36	130	24	39	8.6	49	44

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
NOV 20...	0845	3	4.0	109	1	133	111	60	150	0.30
JAN 02...	1230	3	4.2	104	0	129	106	58	130	0.30
MAR 26...	0930	1	2.9	86	0	107	88	34	45	0.10
JUN 05...	1100	--	--	73	0	90	74	--	--	--
JUL 09...	0800	1	3.5	83	0	103	84	31	38	0.10
SEP 04...	0815	2	3.2	104	0	133	109	39	70	0.20

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV										
20...	0845	4.6	442	438	2350	0.60	--	<0.010	0.200	0.140
JAN										
02...	1230	2.1	419	401	3730	0.57	--	<0.010	0.190	0.370
MAR										
26...	0930	6.0	224	215	102000	0.30	0.480	0.020	0.500	0.170
JUN										
05...	1100	--	--	--	--	--	--	<0.010	0.600	0.030
JUL										
09...	0800	2.9	182	191	5310	0.25	0.190	0.010	0.200	<0.010
SEP										
04...	0815	0.38	278	275	3140	0.38	--	<0.010	<0.100	0.020

DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
NOV										
20...	0845	0.130	1.3	1.4	0.110	0.080	0.090	93	<10	1
JAN										
02...	1230	0.020	0.63	1.0	0.140	<0.010	0.010	--	--	--
MAR										
26...	0930	0.030	0.33	0.50	0.110	0.040	0.030	62	20	1
JUN										
05...	1100	0.020	0.57	0.60	0.100	0.050	0.040	--	--	--
JUL										
09...	0800	0.030	--	0.50	0.040	0.030	0.020	--	--	--
SEP										
04...	0815	0.020	0.58	0.60	0.060	0.020	0.020	77	10	1

DATE	TIME	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV										
20...	0845	<0.5	<1.0	1	<3	2	26	<1	8	2
MAR										
26...	0930	1	<1.0	<5	<3	<10	35	<10	<4	3
SEP										
04...	0815	<0.5	<1.0	<1	<3	3	9	<1	5	56

DATE	TIME	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT) (80030)
NOV										
20...	0845	0.1	<10	<1	<1	<1.0	380	<6	10	1.7
MAR										
26...	0930	<0.1	<10	<10	<1	1.0	220	<6	10	--
SEP										
04...	0815	<0.1	<10	2	<1	<1.0	270	<6	4	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
20...	0845	<0.4	5.5	0.7	4.7	0.7	0.11	6	32	73
JAN										
02...	1230	--	--	--	--	--	--	5	45	75
MAR										
26...	0930	--	--	--	--	--	--	104	47500	58
JUN										
05...	1100	--	--	--	--	--	--	74	--	72
JUL										
09...	0800	--	--	--	--	--	--	11	321	55
SEP										
04...	0815	--	--	--	--	--	--	4	45	73

07263640 ARKANSAS RIVER AT LOCK AND DAM 5 NEAR WRIGHT, ARKANSAS

LOCATION.--Lat 34°24'48", long 92°06'07", in SE ¼ NE ¼ sec.33, T.3 S., R.10 W., Jefferson County, Hydrologic Unit 11110207, at left bank on downstream side of lock and dam, 4.0 mi southwest of Wright, off State Highway 256.

DRAINAGE AREA.--158,542 mi², of which 22,241 mi² is probably noncontributing.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02...	0900	9827	9827	32200	8.2	20.0	--	8.6	1.0
31...	0900	9827	9827	15000	8.5	18.0	6.2	9.4	1.5
DEC									
05...	0845	9827	9827	3200	8.2	10.0	4.0	10.6	1.2
JAN									
16...	0900	9827	9827	200	8.5	8.0	3.0	12.4	3.0
FEB									
27...	0945	9827	9827	69600	7.1	10.0	--	11.4	1.3
MAR									
13...	0745	9827	9827	161000	7.7	15.0	--	9.9	1.6
APR									
10...	1345	9827	9827	164000	7.9	15.0	50	10.3	0.8
MAY									
15...	1500	9827	9827	273000	7.4	20.0	--	7.2	1.9
JUN									
05...	0950	9827	9827	165000	7.7	22.0	--	8.3	0.5
JUL									
10...	1030	9827	9827	34600	8.2	31.0	--	8.0	1.6
AUG									
07...	0745	9827	9827	0.0	8.4	27.0	--	8.0	1.7
SEP									
04...	1625	9827	9827	4000	9.2	33.0	--	12.3	3.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
02...	0900	140	69	88	405	--	0.360	<0.050	0.62
31...	0900	140	--	--	338	10	--	<0.050	0.37
DEC									
05...	0845	160	64	130	423	7	0.120	0.120	0.88
JAN									
16...	0900	160	65	120	--	6	<0.020	<0.050	0.62
FEB									
27...	0945	92	35	58	238	24	--	<0.050	1.0
MAR									
13...	0745	92	41	63	243	37	0.330	<0.050	0.58
APR									
10...	1345	110	36	48	247	44	0.500	0.100	0.82
MAY									
15...	1500	80	19	26	--	--	0.370	0.050	1.0
JUN									
05...	0950	100	27	18	174	45	0.570	<0.050	0.63
JUL									
10...	1030	110	30	35	148	19	0.110	<0.050	1.7
AUG									
07...	0745	110	38	55	213	6	0.050	--	0.66
SEP									
04...	1625	140	48	64	284	8	<0.020	--	0.68

07263640 ARKANSAS RIVER AT LOCK AND DAM 5 NEAR WRIGHT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
02...	0900	0.130	0.060	--	<1	<15	2	<10	--
31...	0900	0.070	0.040	<1	<1	<15	<2	<10	4.7
DEC									
05...	0845	0.140	<0.030	<1	<1	21	<2	<10	6.0
JAN									
16...	0900	0.060	<0.030	--	--	--	--	--	4.9
FEB									
27...	0945	0.120	<0.030	--	--	--	--	--	5.2
MAR									
13...	0745	0.190	0.040	--	--	--	--	--	7.6
APR									
10...	1345	0.140	0.050	--	--	--	--	--	7.2
MAY									
15...	1500	0.220	0.090	--	--	--	--	--	9.0
JUN									
05...	0950	0.140	0.060	--	--	--	--	--	5.8
JUL									
10...	1030	0.090	<0.030	--	--	--	--	--	6.0
AUG									
07...	0745	0.070	<0.030	--	--	--	--	--	6.4
SEP									
04...	1625	0.040	0.070	--	--	--	--	--	6.7

07263706 ARKANSAS RIVER AT LOCK AND DAM 4 NEAR PINE BLUFF, ARKANSAS

LOCATION.--Lat 34°14'56", long 91°54'22", in SE ¼ NE ¼ sec.29, T.5 S., R.5 W., Jefferson County, Hydrologic Unit 11110207, on upstream side of lock and dam at end of State Highway 81, 2.2 mi east of St. Louis Southwestern Railroad Yard.

DRAINAGE AREA.--158,542 mi², of which 22,241 mi² is probably noncontributing.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02...	1000	9827	9827	31700	8.1	20.0	--	8.5	1.2
31...	1000	9827	9827	15700	8.5	18.0	5.4	9.5	1.6
DEC									
05...	0940	9827	9827	2020	8.2	10.0	3.6	10.9	1.4
JAN									
16...	0953	9827	9827	100	8.4	7.0	3.5	12.8	2.8
FEB									
27...	1025	9827	9827	73700	7.0	10.0	--	11.2	1.3
MAR									
13...	0820	9827	9827	164000	7.7	15.0	--	9.9	1.9
APR									
10...	1240	9827	9827	177000	7.8	15.0	55	10.1	0.6
SEP									
04...	1535	9827	9827	4200	8.9	32.0	--	9.5	2.9
18...	0945	9827	9827	2500	8.6	27.0	--	8.5	3.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
02...	1000	140	59	80	400	--	0.350	0.050	0.76
31...	1000	140	--	--	335	8	--	<0.050	0.45
DEC									
05...	0940	160	53	130	437	7	0.120	0.070	1.1
JAN									
16...	0953	160	62	110	--	8	<0.020	<0.050	0.82
FEB									
27...	1025	90	35	55	228	25	--	<0.050	1.8
MAR									
13...	0820	96	38	61	233	46	0.320	<0.050	0.67
APR									
10...	1240	110	36	48	245	45	0.500	0.050	1.1
SEP									
04...	1535	130	45	62	277	10	<0.020	--	0.90
18...	0945	130	39	65	283	9	--	0.110	0.87

DATE	TIME	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
02...	1000	0.140	0.060	--	<1	<15	7	<10	--
31...	1000	0.070	0.050	<1	1	<15	<2	<10	4.7
DEC									
05...	0940	0.150	0.030	<1	<1	16	<2	<10	12
JAN									
16...	0953	0.060	<0.030	--	--	--	--	--	4.7
FEB									
27...	1025	0.130	0.030	--	--	--	--	--	5.2
MAR									
13...	0820	0.180	0.050	--	--	--	--	--	7.2
APR									
10...	1240	0.190	0.060	--	--	--	--	--	7.4
SEP									
04...	1535	0.060	0.080	--	--	--	--	--	7.2
18...	0945	0.150	0.130	--	--	--	--	--	5.5

07263920 BAYOU METO NEAR NORTH LITTLE ROCK, ARKANSAS

LOCATION.--Lat 34°51'58", long 92°09'13", in NE ¼ NE ¼ sec.27, T.3 N., R.11 W., Pulaski County, Hydrologic Unit 08020402, at bridge on Cato Road, 2.2 mi east of State Highway 107, and 2.0 mi east of Gravel Ridge.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
17.	1030	9827	9827	7.0	18.0	7.0	1.0	1.8	34
NOV									
14.	1130	9827	9827	7.0	16.0	5.4	0.4	3.4	38
JAN									
02.	1145	9827	9827	7.4	5.0	25	9.1	4.2	24
16.	1050	9827	9827	7.6	9.0	9.5	8.2	1.4	24
FEB									
13.	1050	9827	9827	7.3	12.0	20	9.0	0.9	16
MAR									
20.	1045	9827	9827	7.1	13.0	15	8.6	0.8	14
APR									
10.	1020	9827	9827	7.7	15.0	20	8.5	0.7	16
MAY									
01.	1100	9827	9827	7.0	19.0	20	6.5	0.9	16
JUN									
26.	1039	9827	9827	6.9	26.0	--	2.1	1.4	26
JUL									
24.	1105	9827	9827	7.1	27.0	--	1.6	2.9	14
AUG									
21.	0949	9827	9827	7.0	27.0	--	0.9	2.0	42
SEP									
18.	1046	9827	9827	6.7	24.0	--	<1.0	3.0	22

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	1030	8.0	5.3	--	9	<0.020	0.110	0.62	0.050
NOV									
14.	1130	4.0	--	59	6	<0.020	<0.050	0.62	0.100
JAN									
02.	1145	7.0	7.7	47	13	0.190	0.120	0.48	0.100
16.	1050	8.0	8.1	51	5	0.070	<0.050	0.48	0.040
FEB									
13.	1050	5.0	--	29	7	0.100	<0.050	0.46	0.050
MAR									
20.	1045	4.0	4.0	--	7	0.080	<0.050	0.37	0.050
APR									
10.	1020	3.0	3.8	38	9	0.040	<0.050	0.60	0.060
MAY									
01.	1100	5.0	2.6	41	11	0.080	<0.050	0.34	0.070
JUN									
26.	1039	6.0	3.9	59	8	<0.020	0.130	0.81	0.130
JUL									
24.	1105	3.0	5.6	56	12	0.020	0.070	0.68	0.110
AUG									
21.	0949	5.0	4.2	51	11	<0.020	0.180	0.66	0.110
SEP									
18.	1046	8.0	4.0	54	25	--	0.090	1.1	0.240

07263920 BAYOU METO NEAR NORTH LITTLE ROCK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1030	0.060	1	<1	<15	2	--	5.3
NOV								
14.	1130	<0.030	1	1	<15	3	10	--
JAN								
02.	1145	<0.030	--	--	--	--	--	5.3
16.	1050	<0.030	--	--	--	--	--	3.7
FEB								
13.	1050	<0.030	--	--	--	--	--	3.8
MAR								
20.	1045	<0.030	--	--	--	--	--	3.1
APR								
10.	1020	<0.030	--	--	--	--	--	3.6
MAY								
01.	1100	<0.030	--	--	--	--	--	4.5
JUN								
26.	1039	0.040	--	--	--	--	--	7.6
JUL								
24.	1105	0.070	--	--	--	--	--	7.6
AUG								
21.	0949	0.040	--	--	--	--	--	7.5
SEP								
18.	1046	0.120	--	--	--	--	--	8.8

07263935 BAYOU METO NEAR JACKSONVILLE, ARKANSAS

LOCATION.--Lat 34°50'39", long 92°07'20", in NE ¼ SW ¼ sec.31, T.3 N., R.10 W., Pulaski County, Hydrologic Unit 08020402, at bridge on State Highway 161, 1.2 mi south of Missouri Pacific Railroad bridge and 0.4 mi south of Old Military Road (State Highway 294).

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 17.	0945	9827	9827	7.1	21.0	45	2.1	3.2	30
NOV 14.	1045	9827	9827	7.1	18.0	6.8	8.3	2.5	46
JAN 02.	1100	9827	9827	7.2	6.0	20	6.5	--	30
16.	1000	9827	9827	7.3	9.0	9.0	4.9	2.8	38
FEB 13.	1010	9827	9827	7.3	13.0	25	7.3	1.4	14
MAR 20.	1010	9827	9827	7.0	13.0	20	6.6	1.6	16
APR 10.	1000	9827	9827	7.6	15.0	20	7.1	1.3	18
MAY 01.	1015	9827	9827	7.0	19.0	20	4.2	2.8	16
JUN 26.	1016	9827	9827	7.1	27.0	--	4.5	3.5	60
JUL 24.	1034	9827	9827	7.0	27.0	--	1.8	6.3	46
AUG 21.	0917	9827	9827	7.1	28.0	--	0.6	3.3	28
SEP 18.	1015	9827	9827	7.1	25.0	--	1.6	2.4	46

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 17.	0945	17	12	--	30	0.310	0.730	1.3	1.55
NOV 14.	1045	16	--	138	5	0.660	1.15	1.3	2.75
JAN 02.	1100	12	13	74	10	0.190	1.61	2.3	0.830
16.	1000	16	20	125	2	1.70	1.86	2.3	1.55
FEB 13.	1010	11	--	35	31	0.140	0.960	1.0	0.220
MAR 20.	1010	6.0	5.6	--	12	0.150	0.090	0.68	0.290
APR 10.	1000	5.0	5.2	49	17	0.160	0.100	1.1	0.240
MAY 01.	1015	7.0	3.6	53	17	0.090	0.060	0.56	0.210
JUN 26.	1016	17	24	147	29	1.80	<0.050	1.4	2.80
JUL 24.	1034	15	22	154	27	1.00	0.800	0.79	2.30
AUG 21.	0917	11	11	91	30	0.230	0.150	0.84	1.32
SEP 18.	1015	20	17	133	22	--	0.590	1.1	2.60

07263935 BAYOU METO NEAR JACKSONVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	0945	1.20	<1	<1	15	4	--	9.3
NOV								
14.	1045	2.44	1	1	<15	5	20	--
JAN								
02.	1100	0.800	--	--	--	--	--	15
16.	1000	1.49	--	--	--	--	--	11
FEB								
13.	1010	0.110	--	--	--	--	--	5.1
MAR								
20.	1010	0.190	--	--	--	--	--	5.8
APR								
10.	1000	0.140	--	--	--	--	--	5.3
MAY								
01.	1015	0.130	--	--	--	--	--	8.3
JUN								
26.	1016	2.27	--	--	--	--	--	8.9
JUL								
24.	1034	2.13	--	--	--	--	--	12
AUG								
21.	0917	1.00	--	--	--	--	--	10
SEP								
18.	1015	2.23	--	--	--	--	--	13

07264000 BAYOU METO NEAR LONOKE, ARKANSAS

LOCATION.--Lat 34°44'10", long 91°54'58", in SW ¼ 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 upstream from Brushy Slough, 3.5 mi south of Lonoke, and at mile 106.4.

DRAINAGE AREA.--207 mi^2.

PERIOD OF RECORD.--October 1954 to current year. Gage-height records and results of discharge measurements since June 1948 at site 4.8 mi upstream are contained in reports of U.S. Army 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 above National Geodetic Vertical Datum of 1929. Prior to Feb. 10, 1955, water-stage recorder at site 4.8 mi upstream at datum 6.97 ft higher. Feb. 10 to June 29, 1955 nonrecording gage at present site and datum.

REMARKS.--Records good, except for estimated daily discharges, Oct. 24 to Nov. 20, which are poor and Dec. 17-25, which are fair. Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water.

AVERAGE DISCHARGE.--36 years, 301 ft^3/s, 218,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,750 ft^3/s Dec. 29, 1987, gage height, 27.11 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,720 ft^3/s Mar. 13, gage height, 24.03 ft; minimum, 0.70 ft^3/s July 11, gage height, 4.19 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	e5.0	8.8	65	652	374	1300	891	345	6.8	5.9	1.4
2	26	e5.5	8.0	85	769	465	1420	1090	280	6.4	4.9	1.0
3	27	e6.5	17	77	983	570	1510	1340	254	8.2	4.2	2.4
4	25	e5.5	18	74	1100	640	1510	1440	238	15	1.7	3.6
5	23	e5.5	15	78	1160	665	1430	1540	210	12	3.9	3.2
6	19	e5.0	13	85	1170	618	1420	1640	155	13	18	3.4
7	20	e4.5	20	75	1160	576	1340	1690	113	14	17	1.6
8	19	e6.0	18	55	1100	1120	1220	1650	87	8.2	13	2.1
9	23	e9.5	14	46	1010	1550	1140	1540	68	4.9	11	8.0
10	25	e15	15	40	947	1890	1090	1360	54	1.5	8.8	5.6
11	22	e20	17	37	893	2250	1010	1140	54	1.7	5.8	13
12	24	e15	17	32	852	2570	910	898	50	4.0	4.4	34
13	21	e10	18	34	829	2700	808	657	40	5.2	3.6	51
14	18	e10	24	28	786	2560	718	500	32	4.7	3.1	57
15	17	e9.0	31	24	714	2400	592	401	27	14	4.1	56
16	12	e8.5	26	21	618	2220	460	308	24	18	3.5	46
17	14	e8.0	e20	32	590	2080	401	232	17	18	6.5	34
18	21	e7.5	e15	94	651	1940	442	186	15	13	9.6	27
19	31	e7.0	e15	267	712	1780	525	171	16	11	23	21
20	31	e6.5	e15	688	708	1590	596	304	11	6.0	21	18
21	25	6.5	e15	850	619	1370	667	563	8.4	4.2	13	27
22	21	7.4	e15	937	504	1150	760	776	7.1	6.9	6.1	27
23	18	11	e20	1020	464	927	826	917	8.1	11	6.6	50
24	e15	26	e20	1090	525	710	888	1020	9.2	12	14	56
25	e15	21	e15	1100	572	524	875	1080	15	12	15	40
26	e10	18	14	1040	540	383	847	1080	25	16	8.5	26
27	e9.5	16	12	918	449	307	789	1010	23	18	6.0	18
28	e8.0	14	14	751	350	322	813	839	14	16	4.1	13
29	e7.0	13	16	663	---	533	809	680	9.6	11	4.2	9.8
30	e6.5	10	18	615	---	890	829	574	7.1	7.4	4.0	7.6
31	e5.5	---	25	607	---	1160	---	459	---	5.9	2.7	---
TOTAL	585.5	312.4	528.8	11528	21427	38834	27945	27976	2216.5	306.0	257.2	663.7
MEAN	18.9	10.4	17.1	372	765	1253	931	902	73.9	9.87	8.30	22.1
MAX	31	26	31	1100	1170	2700	1510	1690	345	18	23	57
MIN	5.5	4.5	8.0	21	350	307	401	171	7.1	1.5	1.7	1.0
AC-FT	1160	620	1050	22870	42500	77030	55430	55490	4400	607	510	1320

CAL YR 1989 TOTAL 122908.45 MEAN 337 MAX 2620 MIN .50 AC-FT 243800
WTR YR 1990 TOTAL 132580.1 MEAN 363 MAX 2700 MIN 1.0 AC-FT 263000

e Estimated

07265099 BAYOU METO NEAR BAYOU METO, ARKANSAS

LOCATION.--Lat 34°12'07", long 91°31'50", in SE ¼ NE ¼ 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 southwest of Bayou Meto.

DRAINAGE AREA.--794 mi².

PERIOD OF RECORD.--April 1974 to September 1983, October 1984 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02...	1100	9827	9827	62	7.8	20.0	--	6.9	--
31...	1100	9827	9827	25	7.9	16.0	30	8.2	1.1
DEC									
05...	1030	9827	9827	14	7.6	10.0	50	7.1	1.1
JAN									
16...	1043	9827	9827	550	7.7	9.0	50	9.5	3.0
FEB									
27...	1105	9827	9827	2900	7.1	12.0	--	6.3	1.2
MAR									
13...	0900	9827	9827	3800	7.0	18.0	--	5.0	1.6
APR									
10...	1145	9827	9827	3900	7.5	15.0	60	4.9	1.2
MAY									
15...	1235	9827	9827	3100	7.3	23.0	--	3.7	1.9
JUN									
05...	0950	9827	9827	2200	7.3	22.0	--	3.4	1.6
JUL									
10...	0935	9827	9827	34	7.4	31.0	--	2.6	3.9
AUG									
07...	0850	9827	9827	86	7.7	26.0	--	4.4	3.5
SEP									
04...	1500	9827	9827	34	8.5	30.0	--	6.7	3.1

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
02...	1100	110	12	22	196	--	0.030	<0.050	--
31...	1100	150	--	--	368	41	--	<0.050	--
DEC									
05...	1030	74	15	19	166	29	0.070	0.100	--
JAN									
16...	1043	62	15	18	--	44	0.610	0.050	--
FEB									
27...	1105	30	8.0	5.7	107	25	--	<0.050	--
MAR									
13...	0900	26	6.0	4.5	95	25	0.200	0.090	--
APR									
10...	1145	24	8.0	4.7	106	21	0.220	0.090	--
MAY									
15...	1235	26	7.0	4.0	--	--	0.210	0.100	1.1
JUN									
05...	0950	40	8.0	6.0	115	61	0.320	0.100	--
JUL									
10...	0935	84	9.0	14	130	47	0.090	0.170	--
AUG									
07...	0850	120	17	33	205	96	1.00	--	--
SEP									
04...	1500	210	21	41	312	22	<0.020	--	--

07265099 BAYOU METO NEAR BAYOU METO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
02...	1100	0.200	0.050	--	<1	<15	<2	<10	--
31...	1100	0.130	0.060	<1	1	<15	<2	<10	4.1
DEC									
05...	1030	0.170	0.070	1	<1	<15	<2	<10	9.0
JAN									
16...	1043	0.230	0.120	--	--	--	--	--	12
FEB									
27...	1105	0.220	0.130	--	--	--	--	--	10
MAR									
13...	0900	0.250	0.170	--	--	--	--	--	9.5
APR									
10...	1145	0.290	0.200	--	--	--	--	--	11
MAY									
15...	1235	0.370	0.260	--	--	--	--	--	11
JUN									
05...	0950	0.400	0.260	--	--	--	--	--	12
JUL									
10...	0935	0.250	0.100	--	--	--	--	--	12
AUG									
07...	0850	0.200	0.070	--	--	--	--	--	9.1
SEP									
04...	1500	0.110	0.130	--	--	--	--	--	9.7

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, ARKANSAS

LOCATION.--Lat 33°59'20", long 91°18'47", in sec.20, T.8 S., R.3 W., Arkansas County, Hydrologic Unit 08020401
2.0 mi downstream from Arkansas Post Canal, and 9.8 mi southeast of Gillett.

DRAINAGE AREA.--160,475 mi², of which 22,241 mi² is probably noncontributing.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1979 to May 1981.
WATER TEMPERATURES: November 1979 to May 1981.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02.	1215	9827	9827	30200	8.1	20.0	--	8.5	1.1
31.	1215	9827	9827	16000	8.5	18.0	6.2	9.3	1.8
DEC									
05.	1145	9827	9827	1800	8.2	10.0	3.8	10.7	1.3
JAN									
16.	1150	9827	9827	577	7.8	9.0	10	11.0	2.3
FEB									
27.	1215	9827	9827	86600	7.2	11.0	--	10.9	1.4
MAR									
13.	1015	9827	9827	155000	7.6	18.0	--	8.9	3.3
APR									
10.	1040	9827	9827	186000	7.9	14.0	55	9.7	0.8
MAY									
15.	1135	9827	9827	290000	7.4	21.0	--	7.4	0.9
JUN									
05.	1105	9827	9827	197000	7.6	23.0	--	7.8	0.2
JUL									
10.	0825	9827	9827	37500	8.3	30.0	--	7.8	2.0
AUG									
07.	0950	9827	9827	300	8.6	28.0	--	9.8	3.5
SEP									
04.	1420	9827	9827	3590	8.9	32.0	--	10.6	2.1

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
02.	1215	140	69	110	408	--	0.350	0.050	0.140
31.	1215	140	--	--	334	8	--	<0.050	0.090
DEC									
05.	1145	160	65	130	434	6	0.130	0.050	0.150
JAN									
16.	1150	150	61	100	--	12	0.130	0.180	0.130
FEB									
27.	1215	74	24	40	190	29	--	<0.050	0.100
MAR									
13.	1015	40	8.0	9.8	105	37	0.360	0.130	0.210
APR									
10.	1040	110	35	44	239	51	0.490	<0.050	0.150
MAY									
15.	1135	70	18	21	--	--	0.380	0.060	0.200
JUN									
05.	1105	94	27	19	175	47	0.560	0.080	0.160
JUL									
10.	0825	110	30	33	167	17	0.050	<0.050	0.090
AUG									
07.	0950	120	41	55	240	8	0.030	--	0.080
SEP									
04.	1420	120	45	59	276	10	<0.020	--	0.030

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1215	0.060	--	<1	<15	<2	<10	--
31.	1215	0.040	<1	1	<15	<2	<10	4.4
DEC								
05.	1145	0.040	1	<1	16	2	<10	5.0
JAN								
16.	1150	0.060	--	--	--	--	--	7.5
FEB								
27.	1215	0.050	--	--	--	--	--	5.6
MAR								
13.	1015	0.100	--	--	--	--	--	7.6
APR								
10.	1040	0.060	--	--	--	--	--	7.6
MAY								
15.	1135	0.110	--	--	--	--	--	9.0
JUN								
05.	1105	0.080	--	--	--	--	--	6.7
JUL								
10.	0825	<0.030	--	--	--	--	--	7.0
AUG								
07.	0950	0.030	--	--	--	--	--	7.5
SEP								
04.	1420	0.050	--	--	--	--	--	8.5

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, ARKANSAS
(National stream-quality accounting network)

LOCATION.--Lat 33°33'27", long 91°14'15", in sec.18, T.13 S., R.1 W., Chicot County, Hydrologic Unit 08050002, 3.0 mi southwest of Arkansas City, and at mile 554.1.

DRAINAGE AREA.--1,130,600 mi², approximately.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to September 1981.
WATER TEMPERATURES: November 1974 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT											
17...	1225	80513	80513	420000	369	8.2	19.0	19	7.9	85	762
FEB											
20...	1300	80513	80513	1270000	280	7.5	10.0	63	9.4	83	769
JUN											
20...	1330	80513	80020	926000	300	7.7	25.5	--	5.7	70	756
JUL											
24...	1430	80513	80020	572000	415	7.8	26.0	62	6.0	74	762

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
17...	1225	K190	78	130	32	35	9.7	20	25	0.8	2.9
FEB											
20...	1300	40	180	100	35	29	7.5	12	20	0.5	2.5
JUN											
20...	1330	K110	560	--	--	--	--	--	--	--	--
JUL											
24...	1430	140	K48	170	49	46	14	15	16	0.5	3.1

DATE	TIME	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
17...	1225	95	0	116	95	45	18	0.20	5.6	206
FEB										
20...	1300	68	0	84	69	31	15	0.10	6.3	165
JUN										
20...	1330	107	0	137	112	--	--	--	--	--
JUL										
24...	1430	120	0	151	124	44	17	0.20	7.7	242

DATE	TIME	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
17...	1225	197	234000	0.28	--	<0.010	0.650	0.030	0.020	0.37
FEB										
20...	1300	151	565000	0.22	1.18	0.020	1.20	0.050	0.030	0.65
JUN										
20...	1330	--	--	--	--	<0.010	1.60	0.040	0.010	0.86
JUL										
24...	1430	233	374000	0.33	--	<0.010	2.50	0.030	0.040	0.87

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)
OCT 17...	1225	0.40	0.150	0.070	0.060	49	30	1	<0.5	<1.0
FEB 20...	1300	0.70	0.170	0.040	0.040	38	80	1	<0.5	2.0
JUN 20...	1330	0.90	0.310	0.050	0.040	--	--	--	--	--
JUL 24...	1430	0.90	0.210	0.080	0.090	76	20	2	<0.5	2.0

DATE	TIME	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)
OCT 17...	1225	<1	<3	9	17	1	8	2	<0.1	10
FEB 20...	1300	<5	<3	10	67	<10	4	3	0.1	<10
JUL 24...	1430	2	<3	9	11	<1	10	2	0.1	<10

DATE	TIME	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 17...	1225	2	<1	<1.0	160	<6	8	77	87300	89
FEB 20...	1300	<10	<1	<1.0	120	<6	10	159	544000	77
JUN 20...	1330	--	--	--	--	--	--	362	905000	97
JUL 24...	1430	3	<1	<1.0	180	<6	7	536	828000	29

07336860 RED RIVER NEAR FOREMAN, ARKANSAS

LOCATION.--Lat 33°34'12", long 94°24'39", in sec.10, T.14 S., R.32 W., Little River County, Hydrologic Unit 11140106, at bridge on State Highway 41, 10.7 mi south of Foreman.

DRAINAGE AREA.--47,648 mi², of which 5,936 mi² is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV									
14.	1300	9827	9827	3270	8.3	18.0	5.7	9.8	4.1
JAN									
09.	1040	9827	9827	1150	8.7	9.0	30	11.4	6.6
23.	1110	9827	9827	28600	7.6	10.0	750	8.3	3.6
FEB									
06.	1420	9827	9827	33900	7.7	12.0	380	9.5	2.3
MAR									
06.	1250	9827	9827	13400	--	13.0	75	10.0	1.2
APR									
10.	1351	9827	9827	59600	7.7	16.0	110	7.5	1.3
MAY									
08.	1445	9827	9827	58000	7.7	18.0	700	6.4	2.2
JUN									
05.	1314	9827	9827	71900	7.6	28.0	--	6.8	4.2
JUL									
10.	1341	9827	9827	6320	8.0	31.0	--	8.2	4.4
AUG									
07.	1315	9827	9827	16300	8.1	27.0	--	8.4	3.2
SEP									
04.	1223	9827	9827	4030	8.4	30.0	--	8.3	5.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV								
14.	1300	340	100	--	744	20	<0.020	<0.050
JAN								
09.	1040	330	120	100	607	49	0.020	0.080
23.	1110	110	39	--	189	598	0.510	0.220
FEB								
06.	1420	100	44	31	230	315	0.240	0.060
MAR								
06.	1250	190	150	98	379	102	0.170	<0.050
APR								
10.	1351	94	43	33	211	131	0.200	0.050
MAY								
08.	1445	140	47	45	234	597	0.230	0.190
JUN								
05.	1314	130	47	44	293	356	0.340	0.090
JUL								
10.	1341	240	84	86	427	40	0.020	0.080
AUG								
07.	1315	150	65	68	270	144	0.200	--
SEP								
04.	1223	270	140	120	609	32	<0.020	--

07336860 RED RIVER NEAR FOREMAN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV								
14.	1300	0.080	<0.030	<1	<1	19	<10	6.7
JAN								
09.	1040	0.120	<0.030	--	--	--	--	13
23.	1110	0.620	--	--	--	--	--	16
FEB								
06.	1420	0.330	0.060	--	--	--	--	9.3
MAR								
06.	1250	0.190	0.040	--	--	--	--	7.6
APR								
10.	1351	--	0.050	--	--	--	--	9.1
MAY								
08.	1445	0.540	0.270	--	--	--	--	11
JUN								
05.	1314	0.310	0.110	--	--	--	--	12
JUL								
10.	1341	0.090	<0.030	--	--	--	--	7.1
AUG								
07.	1315	0.140	0.040	--	--	--	--	7.5
SEP								
04.	1223	0.060	0.100	--	--	--	--	7.6

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

LOCATION.--Lat 33°33'07", long 94°02'28", in NW ¼ SW ¼ sec.7, T.14 S., R.28 W., Miller County, Hydrologic Unit 11140106, near right bank on downstream side of southbound bridge on U.S. Highway 71 at Index, 2.2 mi south of Ogden, 20.6 mi upstream from Little River, and at mile 485.3.

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

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1211: Drainage area.

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

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

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

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

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

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

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

CAL YR 1989 TOTAL 6095880 MEAN 16700 MAX 66900 MIN 1990 AC-FT 12090000
WTR YR 1990 TOTAL 11102750 MEAN 30420 MAX 268000 MIN 1380 AC-FT 22020000

07337000 RED RIVER AT INDEX, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-1956, April 1980 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September 1981.
WATER TEMPERATURE: January to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT											
03...	1215	80513	80513	12100	1200	8.0	23.0	27	7.2	85	759
DEC											
05...	1005	80513	80513	3010	1120	8.1	8.0	8.7	10.8	92	754
FEB											
20...	1230	80513	80513	25600	370	7.9	10.0	27	10.7	95	764
APR											
10...	1330	80513	80020	63700	647	7.8	15.0	150	8.2	82	758
JUN											
19...	0915	80513	80020	57400	498	7.6	26.5	--	6.9	87	755
AUG											
29...	0815	80513	80020	4570	982	7.8	32.0	4.7	5.2	72	755

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
03...	1215	K12	K52	300	110	79	25	130	48	3	5.3
DEC											
05...	1005	K76	92	320	120	87	26	120	44	3	5.1
FEB											
20...	1230	K180	K1200	100	0	29	7.0	32	40	1	2.5
APR											
10...	1330	520	1100	170	63	46	12	58	43	2	2.9
JUN											
19...	0915	640	1300	--	--	--	--	--	--	--	--
AUG											
29...	0815	740	1400	270	66	74	21	98	44	3	4.4

DATE	TIME	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
03...	1215	187	0	231	189	200	190	0.30	5.6	697
DEC										
05...	1005	203	0	250	205	170	150	0.30	5.5	724
FEB										
20...	1230	102	0	124	102	40	43	0.10	5.8	222
APR										
10...	1330	104	0	124	102	88	88	0.10	6.6	387
JUN										
19...	0915	177	0	216	177	--	--	--	--	--
AUG										
29...	0815	203	0	250	205	130	150	0.50	7.4	602

07337000 RED RIVER AT INDEX, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
03...	1215	750	22800	0.95	--	<0.010	<0.100	0.020	0.010	0.68
DEC										
05...	1005	687	5880	0.98	--	0.020	<0.100	0.030	0.030	0.97
FEB										
20...	1230	222	15300	0.30	--	<0.010	0.180	0.060	0.020	0.74
APR										
10...	1330	365	66600	0.53	0.290	0.010	0.300	0.060	0.030	0.74
JUN										
19...	0915	--	--	--	--	<0.010	0.300	0.030	0.020	0.97
AUG										
29...	0815	608	7430	0.82	--	<0.010	<0.100	0.020	0.010	0.58

DATE	TIME	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
OCT										
03...	1215	0.70	0.100	<0.010	<0.010	150	30	1	<0.5	<1.0
DEC										
05...	1005	1.0	0.120	<0.010	0.010	--	--	--	--	--
FEB										
20...	1230	0.80	0.170	<0.010	0.010	62	70	1	<0.5	<1.0
APR										
10...	1330	0.80	0.100	0.020	0.020	300	70	1	<0.5	<1.0
JUN										
19...	0915	1.0	0.290	0.030	0.020	--	--	--	--	--
AUG										
29...	0815	0.60	0.060	<0.010	0.010	--	--	--	--	--

DATE	TIME	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT										
03...	1215	<1	<3	3	59	2	17	16	<0.1	<10
FEB										
20...	1230	<5	<3	<10	73	20	<4	5	0.2	<10
APR										
10...	1330	<1	<3	3	74	<1	7	4	<0.1	<10

DATE	TIME	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
03...	1215	2	<1	<1.0	880	<6	23	108	3530	78
DEC										
05...	1005	--	--	--	--	--	--	30	244	82
FEB										
20...	1230	<10	<1	1.0	250	<6	18	1120	77400	43
APR										
10...	1330	2	<1	<1.0	430	<6	140	450	77400	59
JUN										
19...	0915	--	--	--	--	--	--	879	136000	77
AUG										
29...	0815	--	--	--	--	--	--	19	234	74

07338720 MOUNTAIN FORK NEAR HATFIELD, ARKANSAS

LOCATION.--Lat 34°30'12", long 94°25'50", in NE ¼ NE ¼ sec.17, T.3 S., R.32 W., Polk County, Hydrologic Unit 11140108, at bridge on State Highway 246, 3.1 mi northeast of Hatfield.

PERIOD OF RECORD.--October 1968 to April 1974, November 1979 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 10.	1110	9827	9827	1.0	7.4	19.0	2.4	--	0.7
NOV 07.	1330	9827	9827	1.0	7.4	20.0	3.8	9.3	2.4
DEC 12.	1045	9827	9827	18	7.5	2.0	4.0	12.5	1.1
JAN 09.	1145	9827	9827	40	7.7	6.0	20	11.8	1.8
FEB 13.	1451	9827	9827	305	7.4	12.5	10	--	--
MAR 13.	1255	9827	9827	512	7.2	16.0	10	8.8	1.8
APR 10.	1249	9827	9827	--	7.7	14.0	30	9.8	1.5
MAY 22.	1030	9827	9827	--	7.2	18.0	20	9.0	1.1
JUN 12.	1032	9827	9827	380	7.4	27.0	--	8.7	2.5
JUL 17.	1300	9827	9827	--	7.3	25.0	--	8.8	8.0
AUG 21.	1438	9827	9827	4.0	7.6	32.0	--	8.2	1.2
SEP 11.	1055	9827	9827	19	7.3	24.0	--	7.2	1.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1110	18	4.0	3.0	--	<1	0.020	<0.050	0.030
NOV 07.	1330	14	--	--	28	5	<0.020	<0.050	0.030
DEC 12.	1045	20	5.0	4.2	33	4	<0.020	0.160	<0.030
JAN 09.	1145	16	--	4.5	42	5	<0.020	<0.050	0.060
FEB 13.	1451	14	4.0	--	--	6	0.180	<0.050	0.060
MAR 13.	1255	12	2.0	2.7	--	4	0.110	<0.050	0.060
APR 10.	1249	12	5.0	2.6	30	19	0.050	0.060	0.070
MAY 22.	1030	8	4.0	2.2	34	15	0.120	<0.050	0.050
JUN 12.	1032	12	2.0	2.4	32	8	<0.020	<0.050	0.030
JUL 17.	1300	--	4.0	2.9	24	13	0.020	<0.050	0.060
AUG 21.	1438	14	5.0	3.6	30	5	0.020	<0.050	0.060
SEP 11.	1055	14	2.0	3.4	38	12	<0.020	<0.050	--

07338720 MOUNTAIN FORK NEAR HATFIELD, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1110	--	<1	<1	--	<2	<10	3.0
NOV								
07.	1330	--	<1	1	<15	<2	<10	4.9
DEC								
12.	1045	<0.030	<1	<1	<15	<2	<10	2.4
JAN								
09.	1145	0.030	--	--	--	--	--	--
FEB								
13.	1451	<0.030	--	--	--	--	--	2.6
MAR								
13.	1255	0.030	--	--	--	--	--	3.3
APR								
10.	1249	<0.030	--	--	--	--	--	3.0
MAY								
22.	1030	<0.030	--	--	--	--	--	3.6
JUN								
12.	1032	0.030	--	--	--	--	--	4.4
JUL								
17.	1300	0.030	--	--	--	--	--	8.2
AUG								
21.	1438	<0.030	--	--	--	--	--	3.9
SEP								
11.	1055	0.030	--	--	--	--	--	--

07339795 BEAR CREEK NEAR HORATIO, ARKANSAS

LOCATION.--Lat 33°59'10", long 94°23'01", in NW ¼ SE ¼ sec.14, T.9 N., R.32 W., Sevier County, Hydrologic Unit 11140109, at bridge on county road, 5.5 mi south of DeQueen, and 4.3 mi northwest of State Highway 41.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
17.	1045	9827	9827	7.2	17.0	20	4.5	2.5	--
NOV									
14.	1130	9827	9827	6.9	15.0	15	4.0	--	54
JAN									
09.	0940	9827	9827	7.4	5.0	15	8.0	6.5	30
23.	1020	9827	9827	7.2	8.0	30	9.3	4.7	16
FEB									
06.	1235	9827	9827	7.3	10.0	25	10.0	3.4	26
MAR									
06.	1123	9827	9827	--	12.0	15	7.7	6.2	22
APR									
10.	1139	9827	9827	7.4	17.0	50	8.8	3.2	20
MAY									
08.	1233	9827	9827	7.3	18.0	25	7.3	--	18
JUN									
05.	1215	9827	9827	7.1	21.0	--	6.7	6.1	24
JUL									
10.	1220	9827	9827	7.2	26.0	--	2.4	--	62
AUG									
07.	1220	9827	9827	7.1	23.0	--	3.9	8.3	54
SEP									
04.	1116	9827	9827	7.3	25.0	--	1.8	7.3	64

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT								
17.	1045	25	33	167	19	1.10	<0.050	1.8
NOV								
14.	1130	19	--	184	18	4.30	0.220	1.7
JAN								
09.	0940	15	20	117	13	0.910	7.10	8.2
23.	1020	10	--	67	27	0.540	2.25	2.1
FEB								
06.	1235	9.0	4.8	43	18	0.390	1.33	1.2
MAR								
06.	1123	13	8.3	87	10	1.10	1.88	2.6
APR								
10.	1139	6.0	3.8	77	51	0.230	0.130	1.2
MAY								
08.	1233	8.0	5.0	61	26	0.670	2.17	2.2
JUN								
05.	1215	9.0	4.2	63	34	0.600	1.07	1.2
JUL								
10.	1220	9.0	27	136	18	1.50	8.60	8.6
AUG								
07.	1220	22	46	187	20	4.20	--	1.9
SEP								
04.	1116	22	57	254	23	2.20	7.10	--

07339795 BEAR CREEK NEAR HORATIO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1045	2.80	2.00	<1	--	<15	--	13
NOV								
14.	1130	3.00	2.36	<1	4	19	<10	2.6
JAN								
09.	0940	1.95	1.83	--	--	--	--	13
23.	1020	0.600	--	--	--	--	--	6.9
FEB								
06.	1235	0.380	0.310	--	--	--	--	5.1
MAR								
06.	1123	0.640	0.440	--	--	--	--	7.2
APR								
10.	1139	0.050	<0.030	--	--	--	--	11
MAY								
08.	1233	0.480	0.290	--	--	--	--	7.7
JUN								
05.	1215	0.350	0.190	--	--	--	--	8.7
JUL								
10.	1220	2.15	1.42	--	--	--	--	14
AUG								
07.	1220	2.85	2.40	--	--	--	--	15
SEP								
04.	1116	16.5	7.80	--	--	--	--	30

07340000 LITTLE RIVER NEAR HORATIO, ARKANSAS

LOCATION.--Lat 33°55'10", long 94°23'15", in NE ¼ 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 downstream from Rolling Fork, 2.0 mi southwest of Horatio, 28.5 mi upstream from Cossatot River, and at mile 72.0.

DRAINAGE AREA.--2,662 mi².

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. WRD Ark. 1978: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 272.89 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 5, 1935, nonrecording gage, and Feb. 5, 1934, to Sept. 13, 1961, water-stage recorder, at site 50 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Some regulation since Oct. 3, 1968, by Broken Bow Lake (Oklahoma), 31.4 mi upstream, capacity, 1,368,000 acre-ft, and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 mi upstream, capacity, 465,800 acre-ft. Satellite telemeter at station.

AVERAGE DISCHARGE.--60 years, 3,836 ft³/s, 2,779,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft³/s Mar. 30, 1945, gage height, 37.70 ft, from rating curve extended above 93,000 ft³/s; minimum, 1.0 ft³/s Aug. 18 to Sept. 1, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915, reached a stage of 38.0 ft, discharge, 124,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,700 ft³/s May 6, gage height, 29.00 ft; minimum daily, 194 ft³/s Dec. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	612	329	210	304	10600	6110	10200	13500	15600	2230	3380	1380
2	524	316	205	288	16300	5790	7690	15600	18000	1320	2220	721
3	403	274	208	288	16800	3510	10400	24400	24300	1430	2590	552
4	361	258	206	435	15400	2430	12800	30200	26100	1190	3560	525
5	343	264	202	563	12200	1970	13000	31100	21600	1310	3560	767
6	353	245	202	487	12400	2380	16800	31900	15600	1330	3220	1970
7	383	238	209	391	13500	3760	16200	27000	10700	1280	2460	1630
8	365	252	228	358	14200	25900	9320	19200	10600	613	2690	1180
9	351	373	241	354	12900	30000	7800	9690	12800	459	2990	616
10	342	326	253	428	11600	22000	10300	10300	14500	1020	2410	422
11	337	252	253	438	11200	13900	12700	12500	15300	708	1620	705
12	334	295	238	363	12400	7360	10700	13900	15800	1130	967	517
13	337	271	228	407	11800	10200	8020	16000	15900	673	805	422
14	337	231	241	336	11100	11400	7840	16200	16000	506	974	662
15	336	233	227	312	7840	14700	11300	16300	16100	495	1110	676
16	332	233	328	303	6300	13700	8080	14700	16100	499	1420	487
17	323	209	243	369	7410	12900	8090	13400	16300	788	937	398
18	312	205	259	812	8800	13500	9750	10700	16700	609	1340	420
19	305	217	215	6690	8310	12200	10100	16600	16500	552	808	448
20	303	211	215	16700	8150	13600	10500	19500	16200	1190	623	887
21	301	204	214	15400	7610	14900	12300	17200	16200	1200	714	605
22	302	226	209	10900	9340	15400	12000	14200	15300	712	633	553
23	305	265	388	7180	10300	15100	11800	11800	12900	637	568	1040
24	310	246	335	7260	10800	14500	14100	9840	9840	583	1190	2040
25	313	248	202	8370	8500	13700	13500	11500	7570	610	645	2870
26	311	254	196	9650	4380	13700	13000	13000	8510	707	566	3500
27	308	232	194	9190	5010	13400	12900	15000	8720	2500	533	3640
28	325	217	308	8180	6370	12300	13400	17600	7050	3070	1800	4150
29	329	209	285	8400	---	17200	13200	17000	5090	1400	1630	3990
30	333	211	287	9090	---	18000	13300	15600	3420	962	1570	1820
31	333	---	325	7750	---	14700	---	15000	---	2930	1670	---
TOTAL	10763	7544	7554	131996	291520	390210	341090	520430	425300	34643	51203	39593
MEAN	347	251	244	4258	10410	12590	11370	16790	14180	1118	1652	1320
MAX	612	373	388	16700	16800	30000	16800	31900	26100	3070	3560	4150
MIN	301	204	194	288	4380	1970	7690	9690	3420	459	533	398
AC-FT	21350	14960	14980	261800	578200	774000	676600	1032000	843600	68710	101600	78530

CAL YR 1989 TOTAL 1606132 MEAN 4400 MAX 21500 MIN 194 AC-FT 3186000
WTR YR 1990 TOTAL 2251846 MEAN 6169 MAX 31900 MIN 194 AC-FT 4467000

07340000 LITTLE RIVER NEAR HORATIO, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-59, 1969-78, October 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1953 to September 1959.
WATER TEMPERATURES: October 1953 to September 1959.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	1115	9827	9827	326	7.4	21.0	6.5	8.7	1.7
NOV									
14.	1200	9827	9827	231	7.4	16.0	3.8	8.9	1.2
JAN									
09.	1000	9827	9827	352	7.3	7.0	10	11.8	1.2
23.	1040	9827	9827	7350	7.1	9.0	40	9.7	1.2
FEB									
06.	1345	9827	9827	12800	7.7	11.0	35	10.4	1.1
MAR									
06.	1207	9827	9827	2590	--	12.0	20	9.9	1.7
APR									
10.	1210	9827	9827	9690	7.7	17.0	20	10.0	1.9
MAY									
08.	1300	9827	9827	19200	7.3	18.0	35	5.8	1.4
JUN									
05.	1241	9827	9827	21500	7.4	22.0	--	6.2	--
JUL									
10.	1310	9827	9827	1420	7.3	28.0	--	8.1	4.3
AUG									
07.	1245	9827	9827	2420	7.0	26.0	--	8.1	3.1
SEP									
04.	1149	9827	9827	525	7.3	27.0	--	7.2	4.9

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT								
17.	1115	--	7.0	19	70	7	<0.020	0.090
NOV								
14.	1200	28	4.0	--	62	4	0.040	<0.050
JAN								
09.	1000	32	8.0	25	100	8	0.330	0.180
23.	1040	18	7.0	--	59	39	0.270	0.080
FEB								
06.	1345	18	5.0	1.8	41	28	0.160	<0.050
MAR								
06.	1207	16	8.0	5.4	69	11	0.180	<0.050
APR								
10.	1210	12	6.0	3.2	44	9	0.390	0.080
MAY								
08.	1300	18	8.0	3.1	64	32	0.170	0.080
JUN								
05.	1241	16	9.0	2.5	55	32	0.130	0.090
JUL								
10.	1310	18	6.0	13	25	5	0.130	<0.050
AUG								
07.	1245	22	5.0	12	39	12	0.200	--
SEP								
04.	1149	24	6.0	11	56	5	0.090	--

07340000 LITTLE RIVER NEAR HORATIO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1115	0.080	0.050	<1	--	<15	--	4.3
NOV								
14.	1200	0.090	0.060	1	<1	<15	<10	3.2
JAN								
09.	1000	0.140	0.070	--	--	--	--	5.4
23.	1040	0.090	--	--	--	--	--	7.5
FEB								
06.	1345	0.080	<0.030	--	--	--	--	4.9
MAR								
06.	1207	0.060	0.040	--	--	--	--	3.8
APR								
10.	1210	0.120	<0.030	--	--	--	--	5.7
MAY								
08.	1300	0.130	<0.030	--	--	--	--	10
JUN								
05.	1241	0.140	0.050	--	--	--	--	9.6
JUL								
10.	1310	0.050	<0.030	--	--	--	--	4.6
AUG								
07.	1245	0.070	0.030	--	--	--	--	5.8
SEP								
04.	1149	0.040	0.100	--	--	--	--	4.1

07340300 COSSATOT RIVER NEAR VANDERVOORT, ARKANSAS
(Hydrologic bench-mark station)

LOCATION.--Lat 34°22'46", long 94°14'08", in SE ¼ NE ¼ sec.30, T.4 S., R.30 W., Polk County, Hydrologic Unit 11140109, on right bank 200 ft upstream from bridge on State Highway 246, 0.3 mi downstream from Brushy Creek, 3.2 mi upstream from Flat Creek, and 7.5 mi east of Vandervoort.

DRAINAGE AREA.--89.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1967 to current year.

REVISED RECORDS.--WRD Ark. 1978: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 771.88 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--23 years, 196 ft³/s, 29.71 in/yr, 142,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s Dec. 2, 1982, gage height, 19.50 ft, from rating curve extended above 11,000 ft³/s on basis of step-backwater computations, minimum, 7.2 ft³/s Aug. 28, 29, 30, 31, 1972, gage height, 1.67 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6, 1961, reached a stage of about 23.0 ft from information by local resident, discharge, about 48,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Jan. 19	0900	*11,700	*a13.00	May 03	0800	6,620	10.48
May 02	1600	10,400	12.43	May 21	0500	8,060	11.28

a from floodmarks

Minimum discharge, 10 ft³/s Sept. 2-5, gage height, 1.85 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e35	e30	e20	e150	e260	128	243	998	209	e18	27	11
2	e20	e20	e20	e100	1150	136	184	4170	552	e17	24	10
3	16	e20	e20	e130	e1600	125	145	3600	811	17	23	10
4	e15	e15	e15	260	e1100	109	125	1440	513	16	20	10
5	e15	e15	16	119	371	94	118	670	289	16	31	11
6	e15	e20	e15	e60	e180	83	394	397	193	16	24	14
7	e20	e25	e15	e45	e120	1330	361	257	140	16	19	13
8	e20	e25	e50	e40	e75	2270	251	189	111	16	18	36
9	e20	e25	e85	36	e45	711	196	155	91	15	17	37
10	e20	e20	e45	34	104	409	312	127	76	14	16	19
11	e20	e20	e25	e30	e90	289	339	106	74	16	15	98
12	e20	e20	e20	e30	e70	244	253	125	60	61	15	118
13	e15	e20	e20	e25	e60	211	198	135	53	37	15	54
14	e15	e20	e15	e25	e60	775	885	110	49	24	15	37
15	e15	e15	e15	e20	e70	1180	551	96	45	23	19	28
16	e15	e15	e15	e20	e65	524	341	114	41	21	22	23
17	e15	e15	e15	e35	e55	320	311	624	37	19	42	28
18	e20	e15	13	1190	e50	223	279	327	33	21	24	60
19	e20	e15	e15	9330	e50	168	320	2170	31	20	19	47
20	e15	e15	e15	e2600	49	132	359	2040	29	17	16	64
21	e15	e15	e15	505	e50	115	526	2970	26	16	15	138
22	e15	e15	e15	259	e130	103	394	800	25	19	17	241
23	e15	e20	e15	179	e110	92	293	407	25	26	16	103
24	16	e25	e15	e140	e75	80	221	252	23	23	15	63
25	e15	e25	e15	e110	e70	72	179	180	24	64	17	45
26	e15	e25	e15	e90	e70	71	171	141	25	87	15	35
27	e15	e25	e15	e70	e65	66	701	225	24	40	16	29
28	e15	e20	e15	e60	71	539	983	283	23	28	14	25
29	e15	e20	e50	e85	---	740	439	208	21	23	13	23
30	e30	e20	e55	e70	---	546	269	198	e18	21	12	23
31	e40	---	e100	61	---	345	---	233	---	29	12	---
TOTAL	572	595	794	15908	6265	12230	10341	23747	3671	796	583	1453
MEAN	18.5	19.8	25.6	513	224	395	345	766	122	25.7	18.8	48.4
MAX	40	30	100	9330	1600	2270	983	4170	811	87	42	241
MIN	15	15	13	20	45	66	118	96	18	14	12	10
AC-FT	1130	1180	1570	31550	12430	24260	20510	47100	7280	1580	1160	2880
CFSM	.21	.22	.29	5.73	2.50	4.40	3.85	8.55	1.37	.29	.21	.54
IN.	.24	.25	.33	6.60	2.60	5.08	4.29	9.86	1.52	.33	.24	.60

CAL YR 1989 TOTAL 69993 MEAN 192 MAX 2890 MIN 13 AC-FT 138800 CFSM 2.14 IN. 29.06
WTR YR 1990 TOTAL 76955 MEAN 211 MAX 9330 MIN 10 AC-FT 152600 CFSM 2.35 IN. 31.95

e Estimated

07340300 COSSATOT RIVER NEAR VANDERVOORT, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-68, 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT 03.	1430	80513	80020	16	60	7.0	23.0	0.70	8.0	94	760
DEC 05.	1335	80513	80513	16	73	7.3	6.0	0.20	12.3	102	738
FEB 20.	1015	80513	80513	51	38	7.1	9.5	1.2	9.2	82	750
APR 10.	1030	80513	80020	304	31	7.4	13.5	5.1	9.7	95	744
JUN 19.	1250	80513	80020	29	49	7.2	29.5	--	7.4	100	742
AUG 29.	1100	80513	80020	17	155	7.3	29.0	0.40	7.3	98	742

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 03.	1430	10	170	25	4	7.2	1.7	2.4	17	0.2	0.70
DEC 05.	1335	6	8	28	4	8.3	1.7	2.9	18	0.2	0.20
FEB 20.	1015	7	48	14	2	3.6	1.2	1.7	20	0.2	0.70
APR 10.	1030	63	99	9	0	2.0	0.90	2.1	34	0.3	0.20
JUN 19.	1250	90	88	--	--	--	--	--	--	--	--
AUG 29.	1100	94	97	24	2	7.0	1.6	2.6	19	0.2	0.40

DATE	TIME	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT 03.	1430	21	0	26	22	4.0	1.7	0.10	7.0	33	38
DEC 05.	1335	37	0	29	24	5.0	2.2	0.10	7.4	53	42
FEB 20.	1015	12	0	15	12	4.0	1.5	0.10	7.7	28	28
APR 10.	1030	12	0	15	12	2.9	1.7	<0.10	8.4	25	26
JUN 19.	1250	21	0	26	22	--	--	--	--	--	--
AUG 29.	1100	22	0	27	22	3.4	2.7	<0.10	6.1	19	37

07340300 COSSATOT RIVER NEAR VANDERVOORT, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 03.	1430	1.41	0.05	<0.010	<0.100	<0.010	<0.010	0.30	<0.010	<0.010	<0.010
DEC 05.	1335	2.29	0.07	0.010	<0.100	0.010	<0.010	<0.20	0.020	0.010	0.020
FEB 20.	1015	3.86	0.04	<0.010	<0.100	<0.010	0.010	<0.20	<0.010	<0.010	<0.010
APR 10.	1030	20.5	0.03	<0.010	<0.100	<0.010	<0.010	<0.20	0.010	<0.010	<0.010
JUN 19.	1250	--	--	<0.010	<0.100	0.020	0.010	<0.20	0.020	<0.010	<0.010
AUG 29.	1100	0.90	0.03	<0.010	<0.100	<0.010	<0.010	<0.20	<0.010	<0.010	<0.010

DATE	TIME	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
OCT 03.	1430	12	<10	<1	<0.5	<1.0	<1	<3	<1	30	<1
FEB 20.	1015	9	30	<1	<0.5	<1.0	<5	<3	<10	32	30
APR 10.	1030	90	70	<1	<0.5	<1.0	<1	<3	1	52	<1

DATE	TIME	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 03.	1430	<4	8	<0.1	<10	2	<1	<1.0	26	<6	6
FEB 20.	1015	<4	4	<0.1	<10	<10	<1	2.0	14	<6	11
APR 10.	1030	<4	4	<0.1	<10	1	<1	<1.0	12	<6	61

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 03.	1430	1.0	<0.4	1.6	<0.4	1.6	<0.4	0.05	4	0.17	75
DEC 05.	1335	--	--	--	--	--	--	--	1	0.04	50
FEB 20.	1015	--	--	--	--	--	--	--	2	0.28	75
APR 10.	1030	--	--	--	--	--	--	--	5	4.1	94
JUN 19.	1250	--	--	--	--	--	--	--	1	0.08	100
AUG 29.	1100	--	--	--	--	--	--	--	1	0.05	100

07340400 COSSATOT RIVER NEAR UMPIRE, ARKANSAS

LOCATION.--Lat 34°18'00", long 94°11'00", in SE ¼ SW ¼ sec.23, T.5 S., R.30 W., Howard County, Hydrologic Unit 11140109, at bridge on State Highway 4, 8.5 mi west of Umpire, and 2.5 mi south of Baker Springs.

DRAINAGE AREA.--142 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT								
17...	0940	9827	9827	7.7	17.0	1.5	7.8	0.4
NOV								
14...	1000	9827	9827	7.7	15.0	1.0	9.0	0.8
JAN								
09...	0900	9827	9827	7.6	4.0	7.5	12.0	0.5
23...	0930	9827	9827	7.5	8.0	6.5	11.2	<0.1
FEB								
06...	1137	9827	9827	7.9	9.0	5.5	11.2	0.3
MAR								
06...	1027	9827	9827	--	12.0	3.5	10.5	0.9
APR								
10...	1030	9827	9827	7.4	16.0	5.5	10.7	1.8
MAY								
08...	1129	9827	9827	7.8	17.0	4.8	9.5	0.8

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT								
17...	0940	--	6.0	2.5	38	4	<0.020	<0.050
NOV								
14...	1000	28	5.0	--	36	1	<0.020	<0.050
JAN								
09...	0900	16	8.0	4.0	38	2	<0.020	<0.050
23...	0930	10	5.0	--	29	13	0.060	<0.050
FEB								
06...	1137	18	5.0	<1.5	12	9	0.040	<0.050
MAR								
06...	1027	14	8.0	2.4	43	3	0.020	<0.050
APR								
10...	1030	18	6.0	2.3	36	5	0.150	<0.050
MAY								
08...	1129	6	5.0	2.1	29	3	0.020	<0.050

DATE	TIME	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17...	0940	<0.030	0.030	<1	--	<15	--	1.4
NOV								
14...	1000	<0.030	<0.030	<1	<1	<15	10	1.7
JAN								
09...	0900	0.040	<0.030	--	--	--	--	1.8
23...	0930	0.040	--	--	--	--	--	2.4
FEB								
06...	1137	0.060	<0.030	--	--	--	--	1.1
MAR								
06...	1027	0.070	<0.030	--	--	--	--	1.0
APR								
10...	1030	0.060	<0.030	--	--	--	--	3.2
MAY								
08...	1129	0.040	<0.030	--	--	--	--	1.5

07340945 SALINE RIVER NEAR BURG, ARKANSAS

LOCATION.--Lat 34°12'39", long 94°03'02", in NW ¼ SE ¼ sec.25, T.6 S., R.29 W., Howard County, Hydrologic Unit 11140109, 2.6 mi southeast of Burg, 8.0 mi north of Dierks, and 4.0 mi upstream from entry to Dierks Lake.

DRAINAGE AREA.--47.4 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT								
17...	0900	9827	9827	7.5	18.0	6.0	6.9	0.3
NOV								
14...	0930	9827	9827	7.3	15.0	4.0	7.9	1.5
JAN								
09...	0840	9827	9827	7.8	4.0	30	10.7	1.0
23...	0900	9827	9827	7.6	8.0	20	10.9	0.4
FEB								
06...	1113	9827	9827	7.6	9.0	15	11.0	0.9
MAR								
06...	0953	9827	9827	--	12.0	6.5	10.7	1.1
APR								
10...	1004	9827	9827	7.6	16.0	20	10.0	1.4
MAY								
08...	1103	9827	9827	7.1	17.0	8.2	9.5	1.8
JUN								
05...	1117	9827	9827	7.3	19.0	--	9.0	1.7
JUL								
10...	1119	9827	9827	7.5	29.0	--	7.4	2.1
AUG								
07...	1135	9827	9827	7.2	26.0	--	8.0	3.3
SEP								
04...	1042	9827	9827	7.2	28.0	--	7.3	3.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT								
17...	0900	--	4.0	6.2	38	6	0.020	<0.050
NOV								
14...	0930	16	2.0	--	27	4	0.020	<0.050
JAN								
09...	0840	16	7.0	5.2	59	7	0.790	<0.050
23...	0900	10	6.0	--	52	8	1.40	0.050
FEB								
06...	1113	16	5.0	2.0	28	6	1.10	0.220
MAR								
06...	0953	14	7.0	3.2	50	3	0.360	<0.050
APR								
10...	1004	12	6.0	3.0	48	8	0.380	0.080
MAY								
08...	1103	4	15	2.9	60	6	0.920	<0.050
JUN								
05...	1117	16	8.0	2.4	42	7	0.720	<0.050
JUL								
10...	1119	14	5.0	2.3	11	2	0.040	0.060
AUG								
07...	1135	16	5.0	10	38	3	0.190	--
SEP								
04...	1042	16	7.0	3.1	40	4	0.130	--

07340945 SALINE RIVER NEAR BURG, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17...	0900	<0.030	<0.030	<1	--	<15	--	2.5
NOV								
14...	0930	0.040	<0.030	<1	<1	<15	<10	2.6
JAN								
09...	0840	0.050	<0.030	--	--	--	--	4.1
23...	0900	0.060	--	--	--	--	--	3.2
FEB								
06...	1113	0.100	0.030	--	--	--	--	2.6
MAR								
06...	0953	0.080	<0.030	--	--	--	--	2.1
APR								
10...	1004	0.090	<0.030	--	--	--	--	6.3
MAY								
08...	1103	0.040	<0.030	--	--	--	--	2.8
JUN								
05...	1117	0.070	<0.030	--	--	--	--	3.5
JUL								
10...	1119	0.050	<0.030	--	--	--	--	3.2
AUG								
07...	1135	0.050	<0.030	--	--	--	--	6.0
SEP								
04...	1042	<0.030	0.070	--	--	--	--	6.1

07341070 HOLLY CREEK EAST OF DIERKS, ARKANSAS

LOCATION.--Lat 34°07'27", long 94°00'19", in SE ¼NE ¼ sec.29, T.7S., R.28 W., Howard County, Hydrologic Unit 11140109, at bridge on gravel road 0.1 mi north of State Highway 4, 1.0 mi east of Dierks.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JAN										
09...	0810	9827	9827	7.6	5.0	7.5	8.2	2.2	22	6.0
23...	0840	9827	9827	7.4	8.0	25	10.8	0.1	12	9.0
FEB										
06...	1040	9827	9827	7.5	9.0	20	10.8	0.3	18	6.0
MAR										
06...	0914	9827	9827	--	11.0	15	9.6	0.9	14	8.0
APR										
10...	0932	9827	9827	7.6	16.0	25	9.8	1.7	14	5.0
MAY										
08...	1024	9827	9827	7.5	18.0	90	9.3	2.1	8	5.0
JUN										
05...	1037	9827	9827	7.1	20.0	--	9.0	1.6	88	16
JUL										
10...	1050	9827	9827	7.2	28.0	--	5.4	5.5	30	6.0
AUG										
07...	1106	9827	9827	7.3	25.0	--	3.8	5.9	46	10
SEP										
04...	1005	9827	9827	7.0	26.0	--	2.1	2.1	36	6.0

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JAN										
09...	0810	5.6	61	7	0.080	<0.050	0.88	0.070	0.040	8.6
23...	0840	--	58	7	0.460	0.060	0.70	0.060	--	5.0
FEB										
06...	1040	2.0	31	4	0.300	<0.050	0.48	0.040	0.040	3.3
MAR										
06...	0914	3.4	56	4	0.210	<0.050	0.48	0.100	<0.030	3.6
APR										
10...	0932	2.6	38	11	0.070	<0.050	0.48	0.140	<0.030	4.3
MAY										
08...	1024	2.4	36	5	0.310	0.070	0.92	0.060	<0.030	4.4
JUN										
05...	1037	1.8	54	6	0.170	<0.050	0.55	0.060	<0.030	4.6
JUL										
10...	1050	3.5	23	8	0.060	0.130	2.1	0.100	<0.030	7.5
AUG										
07...	1106	17	140	15	0.720	--	1.6	0.390	0.150	23
SEP										
04...	1005	6.2	76	5	0.020	--	1.1	0.070	<0.030	8.9

07341080 HOLLY CREEK AT DIERKS, ARKANSAS

LOCATION.--Lat 34°06'31", long 94°01'10", in NE ¼ SE ¼ sec.31, T.7S, R.28 W., Howard County, Hydrologic Unit 11140109, at bridge on county road, 0.5 mi south of State Highway 70, and 0.3 mi south of Dierks.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JAN										
09...	0800	9827	9827	7.3	5.0	35	5.7	--	36	12
23...	0830	9827	9827	7.3	8.0	30	9.9	1.8	14	9.0
FEB										
06...	1050	9827	9827	7.4	9.0	20	10.2	0.7	18	7.0
MAR										
06...	0922	9827	9827	--	12.0	20	9.4	20	20	11
APR										
10...	0945	9827	9827	7.3	16.0	50	8.8	3.4	20	6.0
MAY										
08...	1036	9827	9827	7.3	18.0	20	8.3	1.8	18	8.0
JUN										
05...	1101	9827	9827	7.2	20.0	--	8.4	2.1	18	7.0
JUL										
10...	1101	9827	9827	7.2	--	--	5.4	7.5	74	7.0
AUG										
07...	1116	9827	9827	7.3	25.0	--	4.0	7.6	52	9.0
SEP										
04...	1025	9827	9827	7.4	27.0	--	5.1	--	36	7.0

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JAN										
09...	0800	9.8	111	24	0.100	1.30	1.7	0.490	0.240	16
23...	0830	--	71	9	0.580	0.130	0.76	0.090	--	7.4
FEB										
06...	1050	2.7	52	7	0.400	0.070	0.60	0.060	0.030	4.4
MAR										
06...	0922	4.5	74	13	0.170	0.170	0.72	0.150	0.050	5.0
APR										
10...	0945	3.6	65	48	0.230	0.090	1.2	--	<0.030	11
MAY										
08...	1036	2.9	63	9	0.390	0.050	1.1	0.070	<0.030	5.7
JUN										
05...	1101	2.2	47	8	0.180	0.060	0.67	0.060	<0.030	6.1
JUL										
10...	1101	6.0	94	16	0.090	0.220	2.0	0.370	0.060	20
AUG										
07...	1116	17	135	18	0.640	--	1.7	0.380	0.160	22
SEP										
04...	1025	7.2	101	12	0.150	--	0.90	0.310	0.140	13

07341200 SALINE RIVER NEAR LOCKESBURG, ARKANSAS

LOCATION.--Lat 33°57'43", long 94°03'40", in NW ¼ SE ¼ sec.23, T.9 S., R.29 W., Sevier County, Hydrologic Unit 11140109, on right bank 50 ft upstream of bridge on State Highway 24, 2.0 mi downstream from Brushy Creek, 6.0 mi east of Lockesburg, and at mile 30.0.

DRAINAGE AREA.--256 mi^2.

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

REVISED RECORDS.--WRD Ark. 1978: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good, except for estimated daily discharges, which are fair. Satellite telemeter at station.

AVERAGE DISCHARGE.--27 years, 408 ft^3/s, 295,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,700 ft^3/s May 14, 1968, gage height, 20.86 ft, from rating curve extended above 23,000 ft^3/s on basis of contracted-opening measurement of peak flow; minimum, 0.20 ft^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, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,700 ft^3/s Mar. 8, gage height, 18.91 ft; minimum daily, 8.3 ft^3/s Oct. 18-22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	e9.5	15	18	1890	371	1010	608	e1100	28	44	23
2	37	e9.0	15	20	1800	371	939	2230	1640	25	45	22
3	35	e8.5	15	18	1130	206	988	5340	1320	23	39	22
4	20	e9.0	15	29	e690	186	965	4200	943	22	40	23
5	14	e9.0	15	37	e330	175	975	1220	823	22	34	23
6	19	e9.0	15	28	698	169	3020	943	894	21	29	23
7	22	e9.0	14	e25	746	539	1880	938	1060	20	26	16
8	19	e9.0	14	e20	983	19600	866	950	1060	20	24	13
9	12	e9.0	14	e15	990	5210	952	933	1040	19	24	14
10	10	e9.0	14	e15	1010	808	1270	1030	e1000	19	23	14
11	9.5	e9.5	14	e15	991	938	925	1000	e1000	19	23	25
12	9.1	e10	14	e15	957	907	892	1160	e990	35	23	43
13	8.8	11	14	e15	938	1170	842	1310	e980	36	28	27
14	8.7	e10	14	e15	926	1560	1650	746	e980	23	36	20
15	8.7	e10	14	e15	1360	3630	848	640	e970	21	38	17
16	8.7	e10	14	e15	1260	904	299	450	e960	20	40	16
17	8.5	11	14	e20	781	1200	714	766	e950	21	31	16
18	8.3	11	14	e70	690	1180	997	257	e940	22	29	21
19	8.3	11	14	e700	656	1120	1080	1450	936	24	27	22
20	8.3	11	14	1890	608	1080	1030	1670	929	28	27	21
21	8.3	13	14	e1100	291	1060	990	779	919	29	30	26
22	8.3	16	13	e830	607	1040	969	322	913	28	32	29
23	8.5	22	13	714	464	1030	947	335	906	47	30	24
24	8.9	24	12	699	345	1010	403	671	897	45	29	21
25	9.2	19	13	941	296	998	180	661	894	35	28	21
26	8.7	18	14	954	281	1040	136	641	877	55	29	20
27	e8.5	16	15	943	268	1080	217	897	554	44	26	21
28	e8.5	17	15	945	337	1520	778	1130	253	35	25	20
29	e8.5	15	16	1070	---	2390	358	281	87	32	24	20
30	e8.5	15	18	751	---	1560	198	e680	41	34	24	20
31	e8.5	---	27	658	---	868	---	e1100	---	91	23	---
TOTAL	406.3	369.5	456	12600	22323	54920	27318	35338	26856	943	930	643
MEAN	13.1	12.3	14.7	406	797	1772	911	1140	895	30.4	30.0	21.4
MAX	37	24	27	1890	1890	19600	3020	5340	1640	91	45	43
MIN	8.3	8.5	12	15	268	169	136	257	41	19	23	13
AC-FT	806	733	904	24990	44280	108900	54190	70090	53270	1870	1840	1280

CAL YR 1989 TOTAL 185041.8 MEAN 507 MAX 6450 MIN 8.3 AC-FT 367000
WTR YR 1990 TOTAL 183102.8 MEAN 502 MAX 19600 MIN 8.3 AC-FT 363200

e Estimated

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, ARKANSAS

LOCATION.--Lat 33°14'32", long 93°59'58", in SE ¼ SE ¼ sec.28, T.17 S., R.28 W., Miller County, Hydrologic Unit 11140302, at bridge on State Highway 237, 13.5 mi south of Texarkana.

DRAINAGE AREA.--3,540 mi².

PERIOD OF RECORD.--October 1968 to current year.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1979 to September 1981.
WATER TEMPERATURES: July 1979 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	1330	9827	9827	1290	7.7	20.0	2.5	7.8	0.6
NOV									
14.	1415	9827	9827	251	7.5	18.0	2.4	8.9	1.3
JAN									
09.	1215	9827	9827	55	7.1	9.0	40	8.7	3.2
23.	1315	9827	9827	660	6.9	11.0	45	6.5	1.7
FEB									
06.	1613	9827	9827	9980	7.3	12.0	45	7.4	2.2
MAR									
06.	1418	9827	9827	734	--	13.0	30	6.7	1.5
APR									
10.	1415	9827	9827	11200	7.7	16.0	25	9.6	2.3
MAY									
08.	1628	9827	9827	1140	7.2	19.0	15	5.8	1.6
JUN									
05.	2400	9827	9827	10800	7.1	23.0	--	6.0	3.9
JUL									
10.	1505	9827	9827	10000	7.2	31.0	--	5.5	4.2
AUG									
07.	1457	9827	9827	9840	7.4	27.0	--	5.3	3.4
SEP									
04.	1430	9827	9827	544	7.3	30.0	--	3.2	7.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT								
17.	1330	--	60	--	400	4	9.00	0.070
NOV								
14.	1415	84	47	--	375	3	13.0	<0.050
JAN								
09.	1215	64	20	20	137	51	0.150	0.160
23.	1315	34	18	--	105	52	0.200	0.090
FEB								
06.	1613	94	40	36	242	31	0.510	0.130
MAR								
06.	1418	68	20	9.9	154	20	0.220	0.120
APR								
10.	1415	14	6.0	2.8	40	12	0.130	<0.050
MAY								
08.	1628	72	13	6.5	120	14	0.280	<0.030
JUN								
05.	2400	60	14	13	132	13	0.240	0.060
JUL								
10.	1505	62	10	4.6	71	8	0.180	<0.050
AUG								
07.	1457	62	11	15	108	8	0.220	--
SEP								
04.	1430	66	11	8.8	118	18	0.230	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1330	1.85	1.59	<1	--	<15	--	8.1
NOV								
14.	1415	2.15	2.02	<1	<1	<15	10	7.5
JAN								
09.	1215	0.140	0.050	--	--	--	--	9.3
23.	1315	0.110	--	--	--	--	--	13
FEB								
06.	1613	0.200	0.100	--	--	--	--	15
MAR								
06.	1418	0.140	0.090	--	--	--	--	10
APR								
10.	1415	0.110	<0.030	--	--	--	--	4.5
MAY								
08.	1628	0.160	0.040	--	--	--	--	11
JUN								
05.	2400	0.150	0.060	--	--	--	--	11
JUL								
10.	1505	0.190	0.100	--	--	--	--	8.8
AUG								
07.	1457	0.140	0.090	--	--	--	--	8.7
SEP								
04.	1430	0.120	0.120	--	--	--	--	10

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, ARKANSAS

LOCATION.--Lat 33°19'06", long 94°00'16", in sec.33, T.16 S., R.28 W., Miller County, Hydrologic Unit 11140302, at bridge on State Highway 237, 4.4 mi south of junction U.S. Highway 71 and State Highway 237, and 7.8 mi southeast of Texarkana.

DRAINAGE AREA.--78.5 mi^2.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
NOV									
14.	1440	9827	9827	32	7.4	18.0	2.1	6.9	2.7
JAN									
09.	1200	9827	9827	180	7.1	10.0	15	9.8	1.3
23.	1300	9827	9827	20	6.8	13.0	25	8.3	1.3
FEB									
06.	1600	9827	9827	73	7.3	13.0	20	9.0	2.0
MAR									
06.	1402	9827	9827	--	--	14.0	10	9.3	2.4
APR									
10.	1405	9827	9827	83	7.2	17.0	25	6.9	0.9
MAY									
08.	1615	9827	9827	39	7.1	19.0	25	10.5	6.6
JUN									
05.	1413	9827	9827	130	7.1	24.0	--	5.6	5.0
JUL									
10.	1455	9827	9827	20	7.2	32.0	--	8.4	--
AUG									
07.	1445	9827	9827	13	8.3	27.0	--	11.6	3.9
SEP									
04.	1415	9827	9827	13	8.3	29.0	--	10.6	3.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV									
14.	1440	46	12	--	141	3	0.180	<0.050	0.60
JAN									
09.	1200	68	33	61	264	11	6.90	0.370	0.88
23.	1300	54	37	--	177	25	3.30	0.310	1.4
FEB									
06.	1600	54	26	30	171	28	3.90	0.190	1.3
MAR									
06.	1402	64	34	42	232	10	8.70	0.110	1.6
APR									
10.	1405	48	10	5.3	90	13	0.190	<0.050	0.64
MAY									
08.	1615	40	12	20	136	28	1.20	0.090	1.4
JUN									
05.	1413	28	11	11	101	33	0.900	0.200	0.78
JUL									
10.	1455	54	18	29	120	9	1.50	0.110	3.9
AUG									
07.	1445	62	33	49	201	5	4.10	--	0.80
SEP									
04.	1415	78	47	78	351	2	15.0	--	0.90

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV								
14.	1440	0.080	0.030	<1	<1	<15	<10	8.9
JAN								
09.	1200	1.20	1.03	--	--	--	--	9.1
23.	1300	0.350	--	--	--	--	--	11
FEB								
06.	1600	0.550	0.520	--	--	--	--	9.4
MAR								
06.	1402	1.00	0.730	--	--	--	--	9.8
APR								
10.	1405	--	0.030	--	--	--	--	9.2
MAY								
08.	1615	0.340	0.140	--	--	--	--	16
JUN								
05.	1413	0.270	0.120	--	--	--	--	13
JUL								
10.	1455	0.190	<0.030	--	--	--	--	12
AUG								
07.	1445	0.790	0.830	--	--	--	--	8.2
SEP								
04.	1415	2.85	2.01	--	--	--	--	7.9

07344350 RED RIVER NEAR SPRING BANK, ARKANSAS

LOCATION.--Lat 33°05'29", long 93°51'38", in NW ¼ sec.24, T.19 S., R.27 W., Miller County, Hydrologic Unit 11140201, at ferry landing, 1.8 mi west of Spring Bank.

DRAINAGE AREA.--56,909 mi².

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	1430	9827	9827	7000	7.8	21.0	35	6.2	2.1
NOV									
14.	1600	9827	9827	3540	8.1	18.0	20	8.7	3.2
JAN									
09.	1240	9827	9827	2690	8.0	10.0	30	10.3	3.7
23.	1330	9827	9827	20700	7.4	12.0	700	7.6	3.4
FEB									
06.	1640	9827	9827	83800	7.4	12.0	150	7.5	3.3
MAR									
06.	1450	9827	9827	22800	--	13.0	90	9.8	2.2
APR									
10.	1440	9827	9827	136000	7.6	16.0	120	7.7	2.2
JUN									
05.	1505	9827	9827	131000	7.6	23.0	--	7.2	3.7
JUL									
10.	1541	9827	9827	16000	8.0	32.0	--	8.5	4.3
AUG									
07.	1525	9827	9827	22800	7.5	27.0	--	5.5	3.1
SEP									
04.	1500	9827	9827	3900	8.1	29.0	--	7.9	4.9

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT								
17.	1430	--	69	77	345	44	0.150	0.140
NOV								
14.	1600	250	97	--	497	33	0.060	<0.050
JAN								
09.	1240	250	92	95	500	30	0.420	0.120
23.	1330	100	30	--	205	706	0.490	0.150
FEB								
06.	1640	90	38	32	224	179	0.560	0.080
MAR								
06.	1450	100	47	36	241	96	0.220	<0.050
APR								
10.	1440	94	43	33	210	127	0.190	0.060
JUN								
05.	1505	100	37	35	234	269	0.300	0.060
JUL								
10.	1541	170	52	58	273	100	0.030	<0.050
AUG								
07.	1525	64	10	15	109	38	0.210	--
SEP								
04.	1500	210	73	82	410	28	0.070	--

07344350 RED RIVER NEAR SPRING BANK, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1430	0.160	0.080	1	--	<15	--	13
NOV								
14.	1600	0.120	0.030	<1	2	19	20	7.1
JAN								
09.	1240	0.170	0.050	--	--	--	--	11
23.	1330	0.540	--	--	--	--	--	17
FEB								
06.	1640	0.260	0.080	--	--	--	--	11
MAR								
06.	1450	0.200	0.060	--	--	--	--	9.5
APR								
10.	1440	--	0.040	--	--	--	--	8.8
JUN								
05.	1505	0.250	0.120	--	--	--	--	9.3
JUL								
10.	1541	0.160	<0.030	--	--	--	--	12
AUG								
07.	1525	0.170	0.080	--	--	--	--	9.6
SEP								
04.	1500	0.090	0.080	--	--	--	--	10

07348650 BAYOU DORCHEAT NEAR TAYLOR, ARKANSAS

LOCATION.--Lat 33°05'53", long 93°22'53", in SE ¼ sec.9, T.19 S., R.22 W., Columbia County, Hydrologic Unit 11140203, at bridge on State Highway 160, 4.4 mi east of Taylor.

DRAINAGE AREA.--389 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20.	0930	9827	9827	6.8	6.5	19.0	4.5	1.8	1.1
31.	0925	9827	9827	6.9	6.9	14.0	4.4	1.8	4.6
DEC									
05.	0930	9827	9827	18	7.0	6.0	3.5	8.4	0.9
JAN									
02.	0945	9827	9827	140	6.5	6.0	5.0	10.2	1.7
FEB									
20.	1035	9827	9827	573	6.9	11.0	5.0	8.7	0.9
MAR									
20.	0945	9827	9827	1280	6.2	13.0	6.9	6.9	1.3
APR									
17.	0915	9827	9827	1340	6.2	19.0	6.4	6.1	0.8
MAY									
15.	1000	9827	9827	1470	6.3	21.0	8.0	6.2	2.0
JUN									
19.	0930	9827	9827	58	6.3	27.0	--	5.5	3.7
JUL									
24.	0945	9827	9827	15	7.0	25.0	--	3.5	3.9
AUG									
21.	0930	9827	9827	5.2	7.1	26.0	--	1.3	3.6

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
20.	0930	30	4.0	23	85	6	0.070	0.090	0.070
31.	0925	46	8.0	23	109	7	<0.020	0.090	0.050
DEC									
05.	0930	--	6.0	39	108	4	<0.020	0.090	0.060
JAN									
02.	0945	34	7.0	39	--	5	<0.020	<0.050	0.040
FEB									
20.	1035	24	7.0	--	75	6	0.040	0.090	0.060
MAR									
20.	0945	14	8.0	16	67	8	<0.020	<0.050	0.060
APR									
17.	0915	12	3.0	16	64	8	<0.020	0.060	0.070
MAY									
15.	1000	18	5.0	23	75	14	0.030	<0.050	0.080
JUN									
19.	0930	110	5.0	16	101	--	0.190	0.100	0.070
JUL									
24.	0945	--	3.0	18	123	10	<0.020	<0.050	0.110
AUG									
21.	0930	56	7.0	15	107	7	<0.020	--	0.060

07348650 BAYOU DORCHEAT NEAR TAYLOR, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
20.	0930	<0.030	--	--	<15	3	60	12
31.	0925	<0.030	<1	<1	<15	<2	<10	14
DEC								
05.	0930	<0.030	<1	<1	<15	2	10	8.5
JAN								
02.	0945	<0.030	--	--	--	--	--	6.9
FEB								
20.	1035	<0.030	--	--	--	--	--	--
MAR								
20.	0945	<0.030	--	--	--	--	--	15
APR								
17.	0915	<0.030	--	--	--	--	--	13
MAY								
15.	1000	<0.030	--	--	--	--	--	13
JUN								
19.	0930	<0.030	--	--	--	--	--	17
JUL								
24.	0945	<0.030	--	--	--	--	--	19
AUG								
21.	0930	--	--	--	--	--	--	15

07349440 BODCAU CREEK NEAR LEWISVILLE, ARKANSAS

LOCATION.--Lat 33°15'42", long 93°33'05", in SE ¼, sec.14, T.17 S., R.24 W., Lafayette County, Hydrologic Unit 11140205, at bridge on State Highway 313, 6.7 mi southeast of Lewisville.

PERIOD OF RECORD.--April 1974 to September 1977, October 1978 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20.	0845	9827	9827	70	6.7	19.0	10	2.5	0.7
31.	0845	9827	9827	105	6.7	14.0	6.0	3.6	1.9
DEC									
05.	0845	9827	9827	150	6.6	7.0	2.8	6.1	0.5
JAN									
02.	0900	9827	9827	165	6.6	5.0	5.5	9.8	1.9
FEB									
20.	1000	9827	9827	--	6.9	10.0	6.5	7.5	0.6
MAR									
20.	0915	9827	9827	615	6.3	13.0	7.2	6.0	1.0
APR									
17.	0845	9827	9827	740	6.4	18.0	7.5	5.6	0.5
MAY									
15.	0930	9827	9827	360	6.3	20.0	15	5.4	1.7
JUN									
19.	0845	9827	9827	79	6.3	27.0	--	2.5	1.7
JUL									
24.	0915	9827	9827	38	6.8	27.0	--	1.8	1.5
AUG									
21.	0900	9827	9827	--	6.9	28.0	--	3.1	2.9
SEP									
25.	0905	9827	9827	62	6.8	19.0	--	3.8	1.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
20.	0845	30	5.0	28	118	9	0.080	0.120	0.160
31.	0845	30	7.0	34	111	7	<0.020	<0.050	0.100
DEC									
05.	0845	--	6.0	54	134	3	<0.020	0.090	0.070
JAN									
02.	0900	36	6.0	33	--	6	0.180	<0.050	0.060
FEB									
20.	1000	16	9.0	--	56	5	0.040	<0.050	0.090
MAR									
20.	0915	16	9.0	11	73	6	0.080	0.060	0.110
APR									
17.	0845	10	4.0	11	54	7	0.090	<0.050	0.110
MAY									
15.	0930	16	6.0	30	89	14	0.230	<0.050	0.140
JUN									
19.	0845	52	5.0	27	115	--	0.300	<0.050	0.150
JUL									
24.	0915	--	6.0	16	96	23	0.060	0.110	0.180
AUG									
21.	0900	30	7.0	16	102	32	<0.020	--	0.220
SEP									
25.	0905	24	5.0	15	78	--	<0.020	<0.050	0.150

07349440 BODCAU CREEK NEAR LEWISVILLE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
20.	0845	0.080	--	--	<15	2	10	11
31.	0845	<0.030	<1	<1	<15	<2	10	9.3
DEC								
05.	0845	<0.030	<1	<1	<15	2	10	7.5
JAN								
02.	0900	0.040	--	--	--	--	--	6.4
FEB								
20.	1000	<0.030	--	--	--	--	--	--
MAR								
20.	0915	<0.030	--	--	--	--	--	16
APR								
17.	0845	<0.030	--	--	--	--	--	13
MAY								
15.	0930	<0.030	--	--	--	--	--	12
JUN								
19.	0845	0.080	--	--	--	--	--	14
JUL								
24.	0915	0.120	--	--	--	--	--	13
AUG								
21.	0900	--	--	--	--	--	--	12
SEP								
25.	0905	0.030	--	--	--	--	--	8.8

07355825 PRAIRIE CREEK NEAR MENA, ARKANSAS

LOCATION.--Lat 34°34'14", long 94°11'16", in NW ¼ NE ¼ sec.22, T.2 S., R.30 W., Polk County, Hydrologic Unit 08040101, on county road running between State Highways 8 and 88, 2.0 mi east of junction of county road and State Highway 8.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 10.	1225	9827	9827	7.5	18.0	3.2	--	0.8	36
NOV 07.	1420	9827	9827	7.0	20.0	2.6	7.1	1.8	40
DEC 12.	1145	9827	9827	7.3	2.0	9.0	11.3	2.1	36
JAN 09.	1305	9827	9827	7.4	8.0	7.0	10.2	0.6	38
FEB 13.	1537	9827	9827	7.1	15.0	10	--	2.2	18
MAR 13.	1350	9827	9827	7.4	19.0	10	8.6	2.2	14
APR 10.	1330	9827	9827	7.5	15.0	45	9.5	4.6	20
MAY 22.	1121	9827	9827	7.1	19.0	15	8.9	2.2	14
JUN 12.	1117	9827	9827	7.1	26.0	--	8.4	1.7	16
JUL 17.	1345	9827	9827	6.2	25.0	--	5.6	3.2	--
AUG 21.	1514	9827	9827	6.2	31.0	--	4.8	0.7	46
SEP 11.	1135	9827	9827	7.0	25.0	--	6.8	3.4	22

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 10.	1225	56	20	--	2	0.670	0.050	0.94	0.120
NOV 07.	1420	--	--	190	5	2.50	<0.050	1.1	0.090
DEC 12.	1145	69	23	184	6	2.00	0.830	1.8	0.090
JAN 09.	1305	--	20	168	4	0.430	2.63	3.2	0.140
FEB 13.	1537	44	--	--	13	0.270	1.53	1.8	0.750
MAR 13.	1350	5.0	4.4	16	7	0.180	0.210	0.68	0.180
APR 10.	1330	11	4.2	66	31	0.090	0.320	1.2	0.240
MAY 22.	1121	7.0	3.3	44	12	0.260	0.230	0.67	0.180
JUN 12.	1117	11	4.1	51	13	0.360	0.120	0.80	0.150
JUL 17.	1345	69	18	137	6	1.10	2.03	3.1	0.310
AUG 21.	1514	83	22	190	6	0.970	1.38	1.7	0.560
SEP 11.	1135	15	5.8	88	83	0.300	0.290	--	--

07355825 PRAIRIE CREEK NEAR MENA, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
10.	1225	--	<1	<1	--	<2	<10	6.1
NOV								
07.	1420	0.040	<1	1	<15	<2	10	6.8
DEC								
12.	1145	<0.030	<1	1	<15	<2	<10	6.6
JAN								
09.	1305	0.070	--	--	--	--	--	--
FEB								
13.	1537	0.550	--	--	--	--	--	7.2
MAR								
13.	1350	0.100	--	--	--	--	--	5.3
APR								
10.	1330	0.060	--	--	--	--	--	9.7
MAY								
22.	1121	0.070	--	--	--	--	--	4.9
JUN								
12.	1117	0.100	--	--	--	--	--	4.4
JUL								
17.	1345	0.160	--	--	--	--	--	8.4
AUG								
21.	1514	0.360	--	--	--	--	--	9.1
SEP								
11.	1135	0.100	--	--	--	--	--	--

07356000 OUACHITA RIVER NEAR MOUNT IDA, ARKANSAS

LOCATION.--Lat 34°36'36", long 93°41'50", in SE ¼ SW ¼ sec.32, T.1 S., R.25 W., Montgomery County, Hydrologic Unit 08040101, on right bank 300 ft upstream from bridge on U.S. Highway 270, 3.1 mi upstream from Fiddler's Creek, 5.2 mi northwest of Mount Ida, and at mile 553.4.

DRAINAGE AREA.--414 mi².

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). WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 655.14 ft above National Geodetic Vertical Datum of 1929. 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 downstream at present datum.

REMARKS.--Water-discharge records good. As of August 1977, flow from 34.3 mi² upstream from this station is controlled by one floodwater-detention reservoir that has a capacity of 15,661 acre-ft, of which 9,726 acre-ft is flood-detention, 4,600 acre-ft is water supply, and 1,355 acre-ft is sediment storage.

AVERAGE DISCHARGE.--49 years, 725 ft³/s, 525,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 102,000 ft³/s Dec. 3, 1982, gage height, 39.78 ft, from flood-marks; minimum, 2.3 ft³/s Aug. 25, 1954, gage height, 1.03 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Dec. 3, 1982, was about 4.0 ft 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 greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Jan. 20	0100	21,800	19.65	May 03	1100	*24,100	*20.75
Mar. 08	0700	12,600	14.59	May 20	0400	18,900	18.23
Apr. 21	1100	15,000	16.01				

Minimum discharge, 24 ft³/s Sept. 5-8, gage height, 1.23 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	67	55	125	5540	527	1280	2210	1690	78	114	32
2	105	69	54	128	7760	682	1020	10700	2010	71	105	29
3	94	73	53	123	5170	590	823	21500	2560	66	94	28
4	80	64	52	155	3180	527	683	11800	1770	62	88	26
5	71	59	52	249	2000	475	655	3820	1270	62	83	25
6	65	68	52	240	1450	429	1590	2660	991	58	90	25
7	62	88	57	195	1130	2210	1560	2120	790	53	97	25
8	59	82	75	165	923	10100	1150	1760	635	50	81	50
9	56	71	114	147	856	3790	952	1450	520	47	73	66
10	53	67	139	133	1140	2270	1280	1040	434	44	68	69
11	52	62	113	121	946	1620	1530	796	386	42	62	79
12	50	60	98	107	767	1390	1120	757	366	301	57	114
13	48	58	88	97	652	1210	938	831	301	288	54	257
14	46	58	81	90	575	1330	1970	657	251	149	52	191
15	45	59	76	85	589	4050	1810	533	216	124	67	148
16	45	57	72	85	591	2400	1360	453	192	107	107	118
17	44	53	69	151	477	1610	1330	885	169	94	83	95
18	42	53	67	1190	409	1220	1310	805	151	87	74	e110
19	41	53	66	10700	370	991	1190	10200	137	82	79	e140
20	40	53	64	11800	332	804	1140	12200	124	82	72	e150
21	41	60	63	3200	315	669	6240	6400	112	85	70	e180
22	41	56	60	1850	742	576	3320	4150	108	88	61	e3900
23	43	61	57	1290	798	497	3050	2600	102	90	54	e3600
24	43	69	53	997	629	437	2130	2000	90	83	54	e880
25	43	69	53	792	526	406	1760	1570	82	81	49	e420
26	43	68	54	622	456	412	1630	1110	209	186	55	e320
27	43	68	55	516	406	455	2050	1430	141	328	54	e260
28	43	64	56	451	381	1240	4980	2370	114	181	47	e210
29	44	59	65	512	---	3120	2330	1510	96	132	41	e190
30	49	56	75	496	---	2520	1540	1360	85	108	37	e180
31	56	---	100	422	---	1690	---	2370	---	103	34	---
TOTAL	1673	1904	2188	37234	39110	50247	53721	114047	16102	3412	2156	11917
MEAN	54.0	63.5	70.6	1201	1397	1621	1791	3679	537	110	69.5	397
MAX	105	88	139	11800	7760	10100	6240	21500	2560	328	114	3900
MIN	40	53	52	85	315	406	655	453	82	42	34	25
AC-FT	3320	3780	4340	73850	77570	99660	106600	226200	31940	6770	4280	23640

CAL YR 1989 TOTAL 267967 MEAN 734 MAX 9640 MIN 40 AC-FT 531500
WTR YR 1990 TOTAL 333711 MEAN 914 MAX 21500 MIN 25 AC-FT 661900

e Estimated

07356000 OUACHITA RIVER NEAR MOUNT IDA, ARKANSAS--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 were furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	1355	9827	9827	44	7.8	26.0	2.5	8.9	2.7
NOV									
14.	1425	9827	9827	57	7.9	18.0	1.8	9.4	1.4
JAN									
02.	1330	9827	9827	127	7.4	14.0	2.5	12.8	1.2
16.	1345	9827	9827	81	7.7	9.0	4.0	11.0	1.3
FEB									
20.	1403	9827	9827	328	7.6	10.0	4.5	11.7	0.6
MAR									
20.	1232	9827	9827	800	7.3	12.0	10	10.3	0.7
APR									
17.	1230	9827	9827	1330	7.1	16.0	7.6	9.1	1.4
MAY									
15.	1326	9827	9827	528	7.0	21.0	6.0	9.2	0.4
JUN									
19.	1215	9827	9827	137	--	28.0	--	9.3	--
JUL									
24.	1445	9827	9827	83	7.2	28.0	--	9.2	2.7
AUG									
21.	1155	9827	9827	73	7.3	28.0	--	8.2	4.0
SEP									
18.	1205	9827	9827	89	7.0	25.0	--	8.0	2.3

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	1355	38	6.0	3.1	51	2	<0.020	0.110	<0.030
NOV									
14.	1425	48	5.0	4.3	50	1	<0.020	<0.050	0.050
JAN									
02.	1330	38	6.0	3.4	31	2	0.040	<0.050	<0.030
16.	1345	30	5.0	4.0	48	4	<0.020	<0.050	<0.010
FEB									
20.	1403	20	7.0	3.4	30	3	0.190	0.070	0.030
MAR									
20.	1232	20	14	2.7	--	2	0.150	0.060	<0.030
APR									
17.	1230	14	3.0	2.9	24	4	0.050	<0.050	0.030
MAY									
15.	1326	--	3.0	2.4	38	4	0.100	<0.050	0.030
JUN									
19.	1215	--	--	2.0	--	5	0.080	<0.050	<0.030
JUL									
24.	1445	36	3.0	3.6	29	4	0.040	0.050	0.040
AUG									
21.	1155	16	33	2.9	--	2	0.040	0.170	<0.030
SEP									
18.	1205	18	7.0	3.8	38	2	0.040	<0.050	0.030

07356000 OUACHITA RIVER NEAR MOUNT IDA, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1355	<0.030	<1	<1	<15	<2	<10	2.0
NOV								
14.	1425	<0.030	<1	--	<15	<2	--	2.7
JAN								
02.	1330	0.040	--	--	--	--	--	1.7
16.	1345	<0.030	--	--	--	--	--	2.2
FEB								
20.	1403	<0.030	--	--	--	--	--	2.3
MAR								
20.	1232	<0.030	--	--	--	--	--	1.2
APR								
17.	1230	<0.030	--	--	--	--	--	3.2
MAY								
15.	1326	<0.030	--	--	--	--	--	3.6
JUN								
19.	1215	<0.030	--	--	--	--	--	4.6
JUL								
24.	1445	<0.030	--	--	--	--	--	5.0
AUG								
21.	1155	<0.030	--	--	--	--	--	3.5
SEP								
18.	1205	<0.030	--	--	--	--	--	3.4

07359500 OUACHITA RIVER NEAR MALVERN, ARKANSAS

LOCATION.--Lat 34°23'10", long 92°50'20", in NW ¼ 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 northwest of Malvern, 5.8 mi downstream from Remmel Dam, and at mile 450.1.

DRAINAGE AREA.--1,585 mi².

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 1391: 1903-4. WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 228.05 ft above National Geodetic Vertical Datum of 1929. March 1903 to April 1905, nonrecording gage at present site at datum 2.0 ft 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 upstream at datum 20.11 ft higher.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Flow regulated since 1925 by Lake Catherine, 5.8 mi upstream, capacity, 35,250 acre-ft, since 1932 by Lake Hamilton, capacity, 190,100 acre-ft, and since 1952 by Lake Ouachita, capacity, 2,768,400 acre-ft. U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--63 years (1925-26, 1928-90), 2,440 ft³/s, 1,768,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 166,000 ft³/s May 20, 1990, from rating curve extended above 120,000 ft³/s on the basis of computation of peak flow over Remmel Dam 5.8 mi upstream, adjusted for flow from intervening area; maximum gage height, 30.3 ft, from floodmarks, May 15, 1923; minimum, 34 ft³/s May 15, 1977, gage height, 0.33 ft; minimum daily observed, 40 ft³/s Dec. 18-20, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166,000 ft³/s May 20, gage height, 29.0 ft, from floodmarks, from rating curve extended as explained above; minimum daily, 350 ft³/s Dec. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2130	2030	359	514	3030	2920	3280	e8400	e9100	e2200	e2200	e1400
2	2760	1790	350	568	6640	2170	5390	e11000	e10000	e1300	e2300	e1800
3	2710	2290	357	506	6270	1680	4590	e11000	e8700	e1600	e2400	e1400
4	2040	1040	403	506	3710	1860	4880	e9100	e8100	e1400	e2000	e570
5	2300	609	417	397	3330	2240	5360	e8400	e7500	e1600	e2000	e2900
6	2500	1830	464	532	3310	2380	9060	e7400	e8000	e1300	e1300	e2500
7	1920	1850	491	470	2430	4070	6060	e7600	e7000	e1600	e1600	e1700
8	591	2060	504	647	2410	34500	6450	e7100	e7400	e2000	e1700	e560
9	1990	1260	505	508	2330	11100	5090	e7000	e7200	e2400	e1700	e520
10	2320	1560	489	532	3370	6350	4860	e6900	e6500	e1800	e1800	e490
11	2160	922	492	584	2050	5900	4690	e6900	e5800	e2600	e2200	e910
12	2340	578	487	400	2440	5390	4760	e7400	e5800	e1400	e500	e620
13	2240	1820	559	412	3200	4960	5130	e6000	e4800	e600	e980	e620
14	1160	1860	512	411	3280	7640	4380	e7400	e6000	e580	e1600	e1800
15	592	2030	544	418	3270	7940	2730	e5900	e5400	e590	e1700	e2000
16	1970	1360	607	397	3250	8080	5220	e7200	e5300	e420	e2600	e1800
17	2150	1170	545	668	3250	7070	6140	e6500	e5600	e1200	e3200	e2200
18	1060	389	463	623	3260	4810	5650	e6100	e5700	e2000	e2000	e2400
19	1730	473	618	3750	3260	3740	5750	e12000	e5000	e2400	e1900	e3100
20	1240	497	380	7290	3220	4050	5050	e84000	e4200	e2900	e2300	e3700
21	577	547	559	2810	3250	4070	6440	e9500	e3600	e3100	e1600	e1700
22	468	481	706	1980	2620	4120	8850	e6300	e4500	e1100	e2200	e1100
23	911	457	1040	1720	3240	3930	8780	e4900	e4000	e1100	e1500	e580
24	1980	481	470	2150	3270	3440	8770	e6700	e4300	e1800	e3200	e780
25	1180	456	572	1360	2500	2270	6120	e8000	e4500	e2600	e2800	e720
26	768	468	547	1810	2780	4320	7010	e7400	e3500	e2600	e2500	e1200
27	651	558	389	575	1700	3640	6810	e8900	e3300	e2600	e3400	e3100
28	529	502	535	1580	2230	5320	7940	e9000	e3500	e1900	e3700	e2300
29	697	488	500	2080	---	6630	5290	e8100	e3600	e1500	e3300	e2800
30	967	407	536	1520	---	7830	7530	e8600	e2400	e2700	e2900	e530
31	500	---	499	1560	---	2950	---	e10000	---	e1900	e2200	---
TOTAL	47131	32263	15899	39278	88900	177370	178060	320700	170300	54790	67280	47800
MEAN	1520	1075	513	1267	3175	5722	5935	10350	5677	1767	2170	1593
MAX	2760	2290	1040	7290	6640	34500	9060	84000	10000	3100	3700	3700
MIN	468	389	350	397	1700	1680	2730	4900	2400	420	500	490
AC-FT	93480	63990	31540	77910	176300	351800	353200	636100	337800	108700	133400	94810

CAL YR 1989 TOTAL 1067879 MEAN 2926 MAX 21500 MIN 350 AC-FT 2118000
WTR YR 1990 TOTAL 1239771 MEAN 3397 MAX 84000 MIN 350 AC-FT 2459000

e Estimated

07359500 OUACHITA RIVER NEAR MALVERN, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-50, October 1970 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	1530	9827	9827	2150	7.1	20.0	3.0	6.7	--
NOV									
14.	1600	9827	9827	1860	7.2	17.0	3.6	7.5	3.0
JAN									
02.	1455	9827	9827	568	7.2	7.0	3.0	12.5	6.3
16.	1528	9827	9827	397	7.8	9.0	2.0	11.0	1.9
FEB									
20.	1347	9827	9827	3220	7.4	11.0	6.0	10.4	1.1
MAR									
20.	1340	9827	9827	4050	7.7	15.0	1.2	10.1	1.9
APR									
17.	1350	9827	9827	6140	7.0	17.0	6.4	9.6	1.9
MAY									
15.	1417	9827	9827	E5900	6.9	22.0	4.8	8.8	1.0
JUN									
19.	1345	9827	9827	E5000	--	27.0	--	9.0	--
JUL									
24.	1545	9827	9827	E1800	7.3	29.0	--	8.8	3.2
AUG									
21.	1326	9827	9827	E1600	7.3	26.0	--	7.6	3.0
SEP									
18.	1315	9827	9827	E2400	7.1	25.0	--	7.3	2.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	1530	24	18	13	65	3	0.320	0.510	0.040
NOV									
14.	1600	30	15	13	72	6	0.320	0.700	0.060
JAN									
02.	1455	24	20	16	74	5	0.470	0.910	0.110
16.	1528	26	14	13	70	4	0.980	0.080	0.070
FEB									
20.	1347	46	8.0	22	82	7	0.230	<0.050	0.070
MAR									
20.	1340	18	6.0	3.8	40	11	0.210	<0.050	0.050
APR									
17.	1350	14	11	4.0	37	5	0.180	0.130	0.070
MAY									
15.	1417	--	7.0	3.5	39	6	0.230	0.110	0.030
JUN									
19.	1345	--	--	3.2	--	21	0.230	<0.050	0.040
JUL									
24.	1545	44	4.0	4.4	43	5	0.170	0.060	0.060
AUG									
21.	1326	20	5.0	7.8	64	6	0.740	0.250	0.040
SEP									
18.	1315	22	10	5.7	53	10	0.260	<0.050	0.060

07359500 OUACHITA RIVER NEAR MALVERN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1530	0.040	<1	<1	<15	<2	<10	3.1
NOV								
14.	1600	0.030	<1	--	<15	<2	--	3.0
JAN								
02.	1455	0.100	--	--	--	--	--	3.4
16.	1528	<0.030	--	--	--	--	--	3.4
FEB								
20.	1347	<0.030	--	--	--	--	--	3.4
MAR								
20.	1340	<0.030	--	--	--	--	--	4.2
APR								
17.	1350	<0.030	--	--	--	--	--	4.4
MAY								
15.	1417	<0.030	--	--	--	--	--	3.2
JUN								
19.	1345	<0.030	--	--	--	--	--	3.4
JUL								
24.	1545	<0.030	--	--	--	--	--	5.0
AUG								
21.	1326	0.040	--	--	--	--	--	3.8
SEP								
18.	1315	<0.030	--	--	--	--	--	4.1

07359580 OUACHITA RIVER NEAR DONALDSON, ARKANSAS

LOCATION.--Lat 34°14'16", long 92°57'32", in NE ¼ sec.5, T.5 S., R.18 W., Hot Spring County, Hydrologic Unit 08040102, at bridge on U.S. Highway 67, 2.0 mi west of Donaldson, 3.6 mi downstream from Black Branch.

DRAINAGE AREA.--1,732 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	0815	9827	9827	2320	7.1	18.0	2.5	6.6	1.8
NOV									
14.	0900	9827	9827	2430	7.1	17.0	3.0	7.2	5.3
JAN									
02.	0830	9827	9827	524	7.5	4.0	5.0	11.5	2.4
16.	0810	9827	9827	410	7.7	9.0	3.5	10.5	2.9
FEB									
20.	1415	9827	9827	3600	7.4	11.0	6.0	10.5	1.1
MAR									
20.	1413	9827	9827	6590	7.3	15.0	8.0	10.1	1.4
APR									
17.	1415	9827	9827	8420	7.2	17.0	6.4	9.5	2.1
MAY									
15.	1440	9827	9827	6960	7.6	22.0	5.2	8.8	1.1
JUN									
19.	1420	9827	9827	6200	--	27.0	--	10.0	--
JUL									
24.	1615	9827	9827	1950	7.3	29.0	--	8.7	2.8
AUG									
21.	1359	9827	9827	2480	7.2	26.0	--	7.5	4.9
SEP									
18.	1347	9827	9827	2700	7.1	26.0	--	7.2	3.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	0815	26	15	12	61	4	0.450	0.310	<0.030
NOV									
14.	0900	28	10	12	68	6	0.460	0.210	0.040
JAN									
02.	0830	28	17	15	65	5	0.890	0.280	0.080
16.	0810	24	12	12	71	7	0.850	0.050	0.060
FEB									
20.	1415	44	6.0	21	72	7	0.220	<0.050	0.050
MAR									
20.	1413	20	5.0	3.8	27	15	0.220	<0.050	0.040
APR									
17.	1415	22	3.0	4.1	38	7	0.180	0.120	0.040
MAY									
15.	1440	--	6.0	2.7	42	7	0.230	0.060	0.040
JUN									
19.	1420	--	--	2.9	--	16	0.240	<0.030	0.040
JUL									
24.	1615	28	3.0	3.6	41	6	0.180	0.050	0.040
AUG									
21.	1359	26	11	7.3	68	6	0.740	0.240	0.030
SEP									
18.	1347	24	10	5.2	52	8	0.210	<0.050	0.040

07359580 OUACHITA RIVER NEAR DONALDSON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	0815	<0.030	<1	<1	<15	<2	10	3.1
NOV								
14.	0900	<0.030	1	--	20	<2	--	3.1
JAN								
02.	0830	0.050	--	--	--	--	--	3.7
16.	0810	<0.030	--	--	--	--	--	3.5
FEB								
20.	1415	<0.030	--	--	--	--	--	3.8
MAR								
20.	1413	<0.030	--	--	--	--	--	5.1
APR								
17.	1415	<0.030	--	--	--	--	--	4.6
MAY								
15.	1440	<0.030	--	--	--	--	--	3.8
JUN								
19.	1420	<0.030	--	--	--	--	--	3.8
JUL								
24.	1615	<0.030	--	--	--	--	--	4.8
AUG								
21.	1359	<0.030	--	--	--	--	--	3.6
SEP								
18.	1347	<0.030	--	--	--	--	--	3.8

07359653 SOUTH FORK CADDO RIVER AT FANCY HILL, ARKANSAS

LOCATION.--Lat 34°22'00", long 93°46'08", in NE ¼ SE ¼ sec.27, T.4 S., R.26 W., Montgomery County, Hydrologic Unit 08040102, at bridge on county road at Fancy Hill, and 600 ft above confluence with the Caddo River.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
17.	1255	9827	9827	7.3	18.0	1.5	9.7	2.8	32
NOV									
14.	1335	9827	9827	7.2	17.0	4.6	8.6	5.4	26
JAN									
02.	1235	9827	9827	7.2	6.0	6.0	12.4	1.1	28
16.	1300	9827	9827	7.5	11.0	2.5	10.4	1.1	24
FEB									
20.	1243	9827	9827	7.7	11.0	4.0	10.8	0.2	18
MAR									
20.	1151	9827	9827	7.1	12.0	3.8	10.4	0.8	16
APR									
17.	1150	9827	9827	6.9	15.0	6.5	9.8	1.0	20
MAY									
15.	1240	9827	9827	7.3	20.0	3.6	8.5	0.5	--
JUN									
19.	1138	9827	9827	--	27.0	--	8.8	--	--
JUL									
24.	1305	9827	9827	7.3	26.0	--	9.5	3.1	40
AUG									
21.	1107	9827	9827	7.1	25.0	--	8.0	1.7	26
SEP									
18.	1123	9827	9827	6.9	23.0	--	7.7	6.0	18

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
17.	1255	30	1.8	55	1	<0.020	0.090	<0.030
NOV								
14.	1335	14	3.3	45	4	<0.020	<0.050	<0.030
JAN								
02.	1235	24	2.3	35	1	0.080	<0.050	<0.030
16.	1300	14	2.6	40	2	0.050	<0.050	0.090
FEB								
20.	1243	17	2.3	30	8	0.090	<0.050	<0.030
MAR								
20.	1151	14	2.6	41	3	0.140	<0.050	<0.030
APR								
17.	1150	9.0	1.8	19	3	0.050	<0.050	<0.030
MAY								
15.	1240	19	1.5	51	<1	0.050	<0.050	<0.030
JUN								
19.	1138	--	16	--	6	0.060	<0.050	<0.030
JUL								
24.	1305	28	2.2	64	<1	0.030	<0.050	0.040
AUG								
21.	1107	18	2.2	50	<1	0.110	0.120	<0.030
SEP								
18.	1123	9.0	4.1	39	2	<0.020	0.440	0.370

07359653 SOUTH FORK CADDO RIVER AT FANCY HILL, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1255	<0.030	1	<1	<15	<2	<10	0.9
NOV								
14.	1335	<0.030	<1	--	<15	<2	--	2.0
JAN								
02.	1235	<0.030	--	--	--	--	--	0.9
16.	1300	<0.030	--	--	--	--	--	0.8
FEB								
20.	1243	<0.030	--	--	--	--	--	1.0
MAR								
20.	1151	<0.030	--	--	--	--	--	1.3
APR								
17.	1150	<0.030	--	--	--	--	--	1.2
MAY								
15.	1240	<0.030	--	--	--	--	--	0.8
JUN								
19.	1138	<0.030	--	--	--	--	--	0.9
JUL								
24.	1305	<0.030	--	--	--	--	--	1.8
AUG								
21.	1107	<0.030	--	--	--	--	--	0.4
SEP								
18.	1123	0.310	--	--	--	--	--	6.3

07359770 CADDO RIVER NEAR AMITY, ARKANSAS

LOCATION.--Lat 34°17'05", long 93°24'56", in NW ¼ SE ¼ sec.24, T.5 S., R.23 W., Clark County, Hydrologic Unit 08040102, at bridge on State Highway 84, 2.9 mi northeast of Amity.

DRAINAGE AREA.--291 mi².

PERIOD OF RECORD.--August 1972 to current year. August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	0940	9827	9827	5.6	7.7	20.0	3.0	8.1	1.3
NOV									
14.	1010	9827	9827	5.6	7.8	16.0	2.4	8.6	1.6
JAN									
02.	0937	9827	9827	105	7.5	4.0	3.5	12.5	1.0
16.	1015	9827	9827	5.6	7.5	9.0	3.0	11.2	2.9
FEB									
20.	0940	9827	9827	495	7.5	8.0	5.5	11.1	0.6
MAR									
20.	0840	9827	9827	530	7.3	10.0	5.2	10.2	0.9
APR									
17.	0845	9827	9827	1040	7.3	17.0	6.0	8.7	1.8
MAY									
15.	0948	9827	9827	312	8.9	21.0	5.6	8.9	2.4
JUN									
19.	0925	9827	9827	5.6	--	29.0	--	7.4	--
JUL									
24.	1039	9827	9827	198	7.4	26.0	--	8.4	4.1
AUG									
21.	0851	9827	9827	182	7.6	26.0	--	6.4	3.9
SEP									
18.	0915	9827	9827	990	7.5	24.0	--	7.5	4.3

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	0940	54	7.0	2.4	63	5	<0.020	0.070	<0.030
NOV									
14.	1010	60	5.0	3.7	64	4	<0.020	<0.050	<0.030
JAN									
02.	0937	48	6.0	2.9	46	3	0.040	<0.050	<0.030
16.	1015	52	5.0	3.3	51	3	<0.020	<0.050	<0.030
FEB									
20.	0940	24	6.0	3.0	42	4	0.290	<0.050	0.030
MAR									
20.	0840	24	5.0	2.8	33	5	0.290	<0.050	<0.030
APR									
17.	0845	30	1.0	2.3	32	4	0.100	0.090	0.040
MAY									
15.	0948	--	6.0	2.6	69	5	0.130	<0.050	0.040
JUN									
19.	0925	--	--	2.8	--	2	0.060	<0.050	0.030
JUL									
24.	1039	46	4.0	3.3	55	8	0.120	<0.050	0.060
AUG									
21.	0851	48	4.0	3.0	72	7	0.050	0.070	0.050
SEP									
18.	0915	52	10	4.2	69	4	<0.020	<0.050	0.050

07359770 CADDO RIVER NEAR AMITY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	0940	0.040	<1	<1	<15	<2	<10	2.1
NOV								
14.	1010	<0.030	<1	--	<15	<2	--	1.4
JAN								
02.	0937	0.030	--	--	--	--	--	1.9
16.	1015	<0.030	--	--	--	--	--	1.7
FEB								
20.	0940	<0.030	--	--	--	--	--	2.4
MAR								
20.	0840	<0.030	--	--	--	--	--	2.5
APR								
17.	0845	<0.030	--	--	--	--	--	3.0
MAY								
15.	0948	<0.030	--	--	--	--	--	3.1
JUN								
19.	0925	<0.030	--	--	--	--	--	3.1
JUL								
24.	1039	0.030	--	--	--	--	--	3.2
AUG								
21.	0851	<0.030	--	--	--	--	--	1.8
SEP								
18.	0915	0.040	--	--	--	--	--	2.3

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, ARKANSAS

LOCATION.--Lat 34°18'41", long 93°53'58", in SW ¼ sec.16, T.5 S., R.27 W., Pike County, Hydrologic Unit 08040103, at bridge on State Highway 84, 1.6 mi downstream from White Oak Creek, and 3.3 mi west of Langley.

DRAINAGE AREA.--68.4 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
17.	1150	9827	9827	7.6	19.0	1.5	9.0	1.1	28
NOV									
14.	1220	9827	9827	7.5	17.0	1.8	9.1	2.0	24
JAN									
02.	1135	9827	9827	7.6	4.0	5.0	12.9	0.9	14
16.	1155	9827	9827	7.8	9.0	3.0	11.2	1.4	20
FEB									
20.	1157	9827	9827	7.8	10.0	2.5	12.1	0.5	12
MAR									
20.	1103	9827	9827	7.4	10.0	2.4	11.3	2.3	6
APR									
17.	1105	9827	9827	7.2	15.0	4.6	9.7	1.3	12
MAY									
15.	1154	9827	9827	7.2	20.0	3.2	9.0	0.4	--
JUN									
19.	1115	9827	9827	--	27.0	--	9.3	--	--
JUL									
24.	1335	9827	9827	7.5	26.0	--	9.7	1.9	28
AUG									
21.	1042	9827	9827	7.4	24.0	--	8.2	2.9	14
SEP									
18.	1056	9827	9827	6.9	24.0	--	8.3	6.3	18

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
17.	1150	5.0	3.2	31	1	<0.020	0.140	<0.030
NOV								
14.	1220	3.0	3.5	36	2	<0.020	<0.050	<0.030
JAN								
02.	1135	4.0	2.2	14	<1	0.040	<0.050	<0.030
16.	1155	3.0	2.9	33	3	0.030	<0.050	<0.010
FEB								
20.	1157	4.0	2.5	20	2	0.110	0.060	<0.030
MAR								
20.	1103	4.0	2.5	--	1	<0.020	<0.050	<0.030
APR								
17.	1105	1.0	1.9	10	1	<0.020	<0.050	<0.030
MAY								
15.	1154	1.0	1.9	22	3	<0.020	<0.050	<0.030
JUN								
19.	1115	--	2.2	--	5	0.020	<0.050	<0.030
JUL								
24.	1335	1.0	2.6	31	<1	<0.020	<0.050	<0.030
AUG								
21.	1042	11	2.6	33	2	0.040	0.120	<0.030
SEP								
18.	1056	8.0	4.5	47	2	0.030	0.480	0.370

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1150	<0.030	<1	<1	<15	<2	<10	1.0
NOV								
14.	1220	<0.030	<1	--	<15	<2	--	1.5
JAN								
02.	1135	0.040	--	--	--	--	--	1.4
16.	1155	<0.030	--	--	--	--	--	1.0
FEB								
20.	1157	<0.030	--	--	--	--	--	0.9
MAR								
20.	1103	<0.030	--	--	--	--	--	1.3
APR								
17.	1105	<0.030	--	--	--	--	--	1.4
MAY								
15.	1154	<0.030	--	--	--	--	--	1.2
JUN								
19.	1115	<0.030	--	--	--	--	--	1.0
JUL								
24.	1335	<0.030	--	--	--	--	--	1.7
AUG								
21.	1042	<0.030	--	--	--	--	--	3.1
SEP								
18.	1056	0.300	--	--	--	--	--	6.5

07361022 PRAIRIE CREEK AT MURFREESBORO, ARKANSAS

LOCATION.--Lat 34°04'02", long 93°40'58", in NE ¼ SE ¼ sec.8, T.8 S., R.25 W., Pike County, Hydrologic Unit 08040103, at bridge on State Highway 27, 0.3 mi east of City Park, and 0.5 mi upstream form confluence with Spring Creek.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
17.	1057	9827	9827	6.8	19.0	3.5	6.4	2.7	20
NOV									
14.	1125	9827	9827	6.7	17.0	5.8	5.2	--	18
JAN									
02.	1045	9827	9827	7.3	6.0	3.0	10.3	0.9	12
16.	1112	9827	9827	7.7	10.0	4.5	9.3	1.3	12
FEB									
20.	1110	9827	9827	7.9	9.0	6.5	11.4	0.5	12
MAR									
20.	0959	9827	9827	7.3	11.0	6.7	10.3	0.9	10
APR									
17.	1000	9827	9827	7.1	17.0	7.6	9.2	1.6	14
MAY									
15.	1105	9827	9827	7.5	21.0	8.0	9.0	1.4	--
JUN									
19.	1029	9827	9827	--	27.0	--	7.3	--	--
JUL									
24.	1136	9827	9827	7.7	26.0	--	7.8	3.2	70
AUG									
21.	0945	9827	9827	6.9	26.0	--	3.9	2.5	26
SEP									
18.	1017	9827	9827	7.0	24.0	--	5.7	3.2	24

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	1057	5.0	3.9	37	<1	0.040	0.100	0.38	0.090
NOV									
14.	1125	3.0	4.6	31	6	0.120	<0.050	0.50	0.060
JAN									
02.	1045	3.0	4.8	18	<1	0.090	<0.050	0.78	<0.030
16.	1112	3.0	6.0	27	5	0.040	<0.050	0.46	<0.030
FEB									
20.	1110	5.0	3.7	19	1	0.210	0.070	0.40	0.030
MAR									
20.	0959	4.0	3.3	22	3	0.260	<0.050	0.48	<0.030
APR									
17.	1000	1.0	3.5	22	4	0.090	0.060	0.39	0.030
MAY									
15.	1105	4.0	2.5	32	4	0.100	<0.050	0.32	0.040
JUN									
19.	1029	--	2.6	--	5	0.130	<0.050	0.68	0.050
JUL									
24.	1136	4.0	4.8	83	5	0.160	<0.050	0.43	0.060
AUG									
21.	0945	4.0	4.1	30	4	0.030	<0.050	0.52	0.230
SEP									
18.	1017	8.0	4.8	53	8	<0.020	<0.050	0.91	0.160

07361022 PRAIRIE CREEK AT MURFREESBORO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1057	0.060	<1	<1	<15	<2	<10	2.2
NOV								
14.	1125	<0.030	<1	--	<15	<2	--	3.3
JAN								
02.	1045	0.030	--	--	--	--	--	1.8
16.	1112	<0.030	--	--	--	--	--	2.5
FEB								
20.	1110	<0.030	--	--	--	--	--	2.4
MAR								
20.	0959	<0.030	--	--	--	--	--	2.6
APR								
17.	1000	<0.030	--	--	--	--	--	3.0
MAY								
15.	1105	<0.030	--	--	--	--	--	3.5
JUN								
19.	1029	<0.030	--	--	--	--	--	2.5
JUL								
24.	1136	<0.030	--	--	--	--	--	4.1
AUG								
21.	0945	0.060	--	--	--	--	--	3.0
SEP								
18.	1017	0.140	--	--	--	--	--	4.4

07361025 PRAIRIE CREEK NEAR MURFREESBORO, ARKANSAS

LOCATION.--Lat 34°02'34", long 93°41'02", in SE ¼ NE ¼ sec.20, T.8 S., R.25 W., Pike County, Hydrologic Unit 08040103, at bridge on State Highway 301, 0.3 mi northwest of Crater of Diamonds State Park, and 1.0 mi above confluence with Little Missouri River.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
17.	1040	9827	9827	7.5	20.0	4.5	7.5	2.1	58
NOV									
14.	1100	9827	9827	7.6	17.0	5.2	6.5	1.9	58
JAN									
02.	1030	9827	9827	7.0	6.0	6.5	9.8	1.4	40
16.	1100	9827	9827	7.3	9.0	6.0	9.0	2.5	38
FEB									
20.	1056	9827	9827	7.6	8.0	6.5	11.4	0.5	18
MAR									
20.	0945	9827	9827	7.1	11.0	7.4	10.3	0.9	16
APR									
17.	0947	9827	9827	7.0	17.0	7.6	9.1	1.2	16
MAY									
15.	1044	9827	9827	7.4	21.0	8.2	8.5	0.8	--
JUN									
19.	1011	9827	9827	--	28.0	--	7.2	--	--
JUL									
24.	1125	9827	9827	7.4	26.0	--	7.3	3.9	72
AUG									
21.	0936	9827	9827	6.9	26.0	--	4.0	1.8	24
SEP									
18.	1002	9827	9827	6.9	24.0	--	5.7	3.3	22

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
17.	1040	7.0	6.4	79	3	0.090	0.090	0.40	<0.030
NOV									
14.	1100	4.0	5.9	86	3	0.120	<0.050	0.38	0.040
JAN									
02.	1030	7.0	6.1	47	4	0.240	0.060	0.40	0.030
16.	1100	6.0	6.8	64	6	0.180	<0.050	0.42	0.030
FEB									
20.	1056	6.0	4.3	28	3	0.260	<0.050	0.32	0.030
MAR									
20.	0945	5.0	3.5	34	4	0.300	<0.050	0.35	<0.030
APR									
17.	0947	1.0	2.6	--	2	0.090	0.050	0.38	0.050
MAY									
15.	1044	4.0	2.6	40	5	0.120	<0.050	0.32	0.040
JUN									
19.	1011	--	3.0	--	5	0.190	<0.050	0.57	0.040
JUL									
24.	1125	4.0	4.6	86	5	0.160	<0.050	0.43	0.060
AUG									
21.	0936	5.0	4.0	44	4	0.030	<0.050	0.41	0.250
SEP									
18.	1002	9.0	4.8	43	8	<0.020	<0.050	0.91	0.160

07361025 PRAIRIE CREEK NEAR MURFREESBORO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1040	<0.030	<1	<1	<15	<2	<10	3.9
NOV								
14.	1100	<0.030	<1	--	<15	<2	--	3.8
JAN								
02.	1030	<0.030	--	--	--	--	--	2.7
16.	1100	<0.030	--	--	--	--	--	2.3
FEB								
20.	1056	0.040	--	--	--	--	--	2.3
MAR								
20.	0945	<0.030	--	--	--	--	--	2.8
APR								
17.	0947	<0.030	--	--	--	--	--	3.1
MAY								
15.	1044	<0.030	--	--	--	--	--	3.4
JUN								
19.	1011	<0.030	--	--	--	--	--	3.5
JUL								
24.	1125	<0.030	--	--	--	--	--	3.8
AUG								
21.	0936	0.090	--	--	--	--	--	2.7
SEP								
18.	1002	0.090	--	--	--	--	--	4.2

07361500 ANTOINE RIVER AT ANTOINE, ARKANSAS

LOCATION.--Lat 34°02'20", long 93°25'05", in NW ¼ NW ¼ 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 downstream from Brushy Creek, 1.9 mi downstream from Suck Creek, and at mile 8.5.

DRAINAGE AREA.--178 mi².

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 U.S. Army Corps of Engineers.

REVISED RECORDS.--WSP 1511: 1955(M). WRD Ark. 1973: 1972. WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 229.33 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1954, at site 75 ft upstream at present datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--36 years, 283 ft³/s, 21.59 in/yr, 205,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,500 ft³/s May 2, 1958, gage height, 28.75 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1905 reached a stage of 29.7 ft, from information by State Highway and Transportation Department, discharge, 40,000 ft³/s.

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

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 08	0500	*25,200	*26.62	May 20	1830	14,800	23.47
May 19	1000	6,850	18.99	May 21	1430	6,620	18.72

Minimum discharge, 0.17 ft³/s Sept. 10-11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.8	4.1	6.3	1210	341	661	396	697	8.5	3.9	.64
2	2.7	2.8	3.8	20	2140	319	470	3560	753	7.3	3.0	.53
3	2.6	2.7	3.6	38	2830	264	348	3000	1350	6.4	2.5	.45
4	3.0	2.6	3.2	77	1410	228	286	1370	1140	5.2	35	.40
5	3.9	2.5	3.1	133	786	205	288	819	639	4.1	17	.36
6	4.4	2.4	2.8	122	554	186	2480	542	444	3.6	7.5	.32
7	5.0	2.4	2.9	102	413	3510	1140	395	317	3.2	6.4	.29
8	3.7	3.5	3.2	87	325	18600	671	305	244	2.7	5.1	.25
9	2.9	3.2	2.8	77	288	3260	490	266	196	2.2	3.1	.23
10	2.3	3.0	2.6	70	440	1330	656	228	167	1.7	2.0	.18
11	1.9	2.7	2.5	65	323	884	582	193	340	1.7	1.3	.28
12	2.1	2.6	2.4	59	263	660	409	290	137	2.7	.92	.42
13	2.6	2.4	2.3	52	232	507	337	706	82	1.8	.78	.50
14	2.6	2.6	2.3	48	211	430	1860	333	59	1.6	.67	.65
15	2.4	2.7	2.4	44	337	1490	1110	257	47	2.1	.58	.61
16	2.8	2.6	2.4	42	408	732	666	215	37	1.6	.55	.56
17	3.0	2.5	2.3	72	263	506	525	391	31	3.0	.57	.47
18	3.2	2.4	2.2	714	220	386	414	262	25	5.2	.51	.41
19	3.0	2.3	2.1	3120	206	314	365	4780	20	4.3	.43	.38
20	3.1	2.2	e2.0	2140	176	260	312	10700	17	3.6	.37	.65
21	3.0	2.0	e2.0	807	167	229	286	5550	14	2.7	.61	.94
22	3.2	2.5	e2.0	483	752	208	565	1940	11	2.3	.61	.84
23	3.2	2.9	e2.0	344	497	186	867	973	9.3	7.7	.66	.70
24	3.1	2.9	e2.0	266	358	163	460	630	9.8	13	.74	.63
25	3.0	2.7	e2.0	217	277	149	339	453	11	31	2.4	.67
26	2.8	3.3	e2.0	176	235	183	280	359	18	23	2.0	.90
27	2.6	5.0	e2.0	150	211	192	523	794	19	20	1.7	1.1
28	2.5	4.9	e2.0	177	193	597	657	1110	13	30	1.2	1.2
29	2.2	4.4	e2.0	714	---	1830	425	576	11	18	.94	1.3
30	2.6	4.2	2.6	466	---	1920	318	480	9.9	10	.86	1.0
31	2.9	---	3.5	329	---	1010	---	1130	---	5.9	.77	---
TOTAL	91.6	87.7	79.1	11217.3	15725	41079	18790	43003	6868.0	236.1	104.67	17.86
MEAN	2.95	2.92	2.55	362	562	1325	626	1387	229	7.62	3.38	.60
MAX	5.0	5.0	4.1	3120	2830	18600	2480	10700	1350	31	35	1.3
MIN	1.9	2.0	2.0	6.3	167	149	280	193	9.3	1.6	.37	.18
AC-FT	182	174	157	22250	31190	81480	37270	85300	13620	468	208	35
CFSM	.02	.02	.01	2.03	3.16	7.44	3.52	7.79	1.29	.04	.02	.00
IN.	.02	.02	.02	2.34	3.29	8.59	3.93	8.99	1.44	.05	.02	.00

CAL YR 1989 TOTAL 120865.2 MEAN 331 MAX 8650 MIN 1.9 AC-FT 239700 CFSM 1.86 IN. 25.26
WTR YR 1990 TOTAL 137299.33 MEAN 376 MAX 18600 MIN .18 AC-FT 272300 CFSM 2.11 IN. 28.69

e Estimated

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, ARKANSAS

LOCATION.--Lat 33°52'32", long 93°18'16", in NE ¼ 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 northeast of Boughton, 5.9 mi downstream from Howard Creek, 10.2 mi downstream from Antoine River, and at mile 46.8.

DRAINAGE AREA.--1,068 mi².

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 were furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17.	1640	9827	9827	114	7.4	19.0	7.5	8.7	0.9
NOV									
15.	0900	9827	9827	79	7.4	17.0	6.1	8.3	0.9
JAN									
09.	0600	9827	9827	104	7.0	6.0	20	11.5	2.5
FEB									
06.	1840	9827	9827	2590	7.9	10.0	25	10.3	0.8
MAR									
06.	1628	9827	9827	520	--	12.0	15	10.2	1.6
APR									
10.	1636	9827	9827	2190	7.8	16.0	35	9.4	1.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT								
17.	1640	--	7.0	3.4	30	9	0.020	0.070
NOV								
15.	0900	26	5.0	--	32	7	<0.020	<0.050
JAN								
09.	0600	24	9.0	5.4	57	20	0.020	0.080
FEB								
06.	1840	24	8.0	1.7	43	29	0.220	<0.050
MAR								
06.	1628	34	17	4.1	83	10	0.110	<0.050
APR								
10.	1636	20	8.0	2.9	49	41	0.150	<0.050

DATE	TIME	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
17.	1640	0.030	0.040	<1	--	<15	--	2.7
NOV								
15.	0900	0.050	0.060	<1	<1	<15	<10	2.6
JAN								
09.	0600	0.060	0.040	--	--	--	--	4.9
FEB								
06.	1840	0.080	0.030	--	--	--	--	3.8
MAR								
06.	1628	0.050	0.040	--	--	--	--	7.7
APR								
10.	1636	0.130	<0.030	--	--	--	--	3.4

07362000 OUACHITA RIVER AT CAMDEN, ARKANSAS
(National stream-quality accounting network station)

LOCATION.--Lat 33°35'47", long 92°49'05", in SE ¼, 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 downstream from Ecore Fabre Bayou, 6.2 mi upstream from Two Bayou Creek, and at mile 354.1.

DRAINAGE AREA.--5,357 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1928 to September 1960 and October 1965 to current year in reports of Geological Survey. October 1929 to date in reports of U.S. Army Corps of Engineers. Monthly discharge only, October 1929 to September 1960 published in WSP 1311 and WSP 1731. Gage heights collected since 1885 in this vicinity are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 71.69 ft above National Geodetic Vertical Datum of 1929. Aug. 8, 1928, to July 10, 1935, and July 11, 1935, to Jan. 4, 1945, nonrecording gage at present site and datum. Jan. 5, 1945, to Oct. 27, 1947, nonrecording gage at site 0.4 mi downstream at present datum. Aug. 10, 1938, to May 31, 1949, supplementary nonrecording gage, 4.5 mi upstream. Since Jan. 1, 1957, auxiliary water-stage recorder, 3.2 mi downstream.

REMARKS.--No estimated daily discharges. Water-discharge records good. Flow regulated since 1925 by Lake Catherine, 102 mi upstream, capacity, 35,250 acre-ft, since 1932 by Lake Hamilton, capacity, 190,100 acre-ft, since 1949 by Lake Greeson, capacity, 407,900 acre-ft, since 1952 by Lake Ouachita, capacity, 2,768,400 acre-ft, and since August 1969 by DeGray Lake, capacity, 881,900 acre-ft.

AVERAGE DISCHARGE.--62 years, 7,658 ft³/s, 5,548,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 243,000 ft³/s Apr. 3, 1945, gage height, 44.82 ft; minimum, 125 ft³/s Sept. 16, 24-26, 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 113,000 ft³/s Mar. 12; maximum gage height, 39.42 ft Mar. 12; minimum daily discharge, 896 ft³/s Dec. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2920	2450	1510	1770	11700	6360	40500	16000	25700	6670	3560	3590
2	2690	3210	1230	1920	13000	7790	42600	15700	26400	6470	3000	2490
3	3140	4870	1130	1800	19300	8000	37500	18800	25200	5990	2460	1550
4	3680	3990	1120	2080	26200	7170	29100	24900	27600	5970	2550	1850
5	3450	3630	1110	2460	32000	5840	21400	30100	31900	5310	2890	1850
6	3230	2230	1060	2630	33300	5710	20400	32400	33700	2660	2670	1810
7	3600	1480	1100	2360	30900	6070	25900	32700	34200	2070	2360	2570
8	3610	2320	1120	2010	24700	15200	31800	29600	32500	2050	2050	2160
9	2820	2790	1180	1630	17800	30200	35700	24700	27600	2210	2140	1880
10	2070	2890	1200	1560	15800	55100	36900	21600	22000	2040	2330	1220
11	2980	2440	1190	1220	18200	98900	33400	19000	17000	3210	2280	1100
12	2600	2280	1190	1240	18200	104000	27700	16600	15700	3090	2460	1150
13	2540	1570	1210	1310	16900	78700	23700	16100	15000	2810	2140	1180
14	2750	1350	1050	1100	14800	56300	20100	16800	14000	2130	1500	1160
15	3140	2150	933	1070	13100	41800	20400	16200	11600	1600	1420	1140
16	2370	2500	912	1040	11600	35900	22500	15900	11300	1290	1810	2130
17	1770	2860	925	1080	11200	33800	22300	14600	10500	1240	1970	2060
18	2280	3230	943	1960	10700	32700	22000	14400	10500	1140	2620	2140
19	3540	3540	906	5390	9590	29900	20300	14200	10000	1240	3370	2680
20	3050	1760	903	10500	9160	25100	17600	14600	9970	1640	2500	2950
21	2970	1320	1080	17400	8970	21600	15700	20400	9870	2210	2040	4140
22	2470	1240	1140	20100	9310	19400	14200	29500	9320	2990	3180	3750
23	1650	1540	1230	18000	10900	17100	15100	41700	9200	2920	2990	2650
24	1340	1830	1330	14900	12400	15000	17300	57800	8460	2040	2240	1590
25	1520	1430	2430	9830	11100	13000	17700	57300	7490	1710	2070	1240
26	2610	1330	1220	6890	9050	10400	16500	44300	8510	2070	2760	1170
27	1940	1310	1210	5850	6920	10500	14600	33400	8410	3120	2830	1130
28	1590	1190	1020	4700	6200	13000	14100	28400	8250	4070	3100	1270
29	1440	1420	896	4860	---	16900	16500	26900	7930	4500	4250	2270
30	1430	2080	1010	11200	---	23900	17500	26800	7900	4040	4460	1930
31	1800	---	1280	13000	---	32200	---	25800	---	2890	3130	---
TOTAL	78990	68230	35768	172860	433000	877540	711000	797200	497710	93390	81130	59800
MEAN	2548	2274	1154	5576	15460	28310	23700	25720	16590	3013	2617	1993
MAX	3680	4870	2430	20100	33300	104000	42600	57800	34200	6670	4460	4140
MIN	1340	1190	896	1040	6200	5710	14100	14200	7490	1140	1420	1100
AC-FT	156700	135300	70950	342900	858900	1741000	1410000	1581000	987200	185200	160900	118600

CAL YR 1989 TOTAL 3766488 MEAN 10320 MAX 75600 MIN 896 AC-FT 7471000
WTR YR 1990 TOTAL 3906618 MEAN 10700 MAX 104000 MIN 896 AC-FT 7749000

07362000 OUACHITA RIVER AT CAMDEN, ARKANSAS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-52, October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to September 1981.
WATER TEMPERATURES: July 1976 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT											
02...	1030	80513	80020	2810	95	7.0	19.0	3.3	8.9	96	760
FEB											
21...	0800	80513	80020	11300	73	6.9	10.0	12	10.8	96	763
APR											
11...	0900	80513	80020	34000	56	7.8	14.0	16	10.7	103	769
AUG											
28...	0830	80513	80020	2570	79	7.1	27.0	5.6	6.4	81	761

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT											
02...	1030	15	53	24	10	6.8	1.6	10	45	0.9	2.0
FEB											
21...	0800	42	32	24	9	7.5	1.3	3.5	23	0.3	1.2
APR											
11...	0900	66	130	20	5	6.3	0.99	3.4	26	0.3	0.60
AUG											
28...	0830	83	150	21	8	6.2	1.4	8.1	44	0.8	1.0

DATE	TIME	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
02...	1030	13	0	17	14	13	11	0.10	5.3	71
FEB										
21...	0800	14	0	18	15	7.0	8.0	0.10	6.4	55
APR										
11...	0900	14	0	18	14	4.8	3.8	<0.10	5.8	42
AUG										
28...	0830	13	0	16	14	12	8.8	<0.10	4.8	61

DATE	TIME	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
02...	1030	59	539	0.10	0.100	0.020	0.120	0.020	0.020	0.38
FEB										
21...	0800	45	1680	0.08	--	<0.010	0.180	0.020	0.020	0.28
APR										
11...	0900	35	3860	0.06	--	0.010	<0.100	0.020	0.010	0.48
AUG										
28...	0830	54	423	0.08	0.680	0.020	0.700	0.040	0.030	0.16

07362000 OUACHITA RIVER AT CAMDEN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)
OCT 02...	1030	0.40	0.020	<0.010	<0.010	23	20	<1	<0.5	<1.0
FEB 21...	0800	0.30	0.030	<0.010	<0.010	25	80	<1	<0.5	<1.0
APR 11...	0900	0.50	0.060	0.020	0.020	120	150	<1	<0.5	<1.0
AUG 28...	0830	0.20	0.040	0.020	<0.010	120	40	<1	<0.5	1.0

DATE	TIME	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)
OCT 02...	1030	<1	<3	3	77	1	5	23	<0.1	30
FEB 21...	0800	<5	<3	<10	160	10	<4	60	<0.1	<10
APR 11...	0900	<1	<3	3	320	<1	<4	21	<0.1	<10
AUG 28...	0830	<1	<3	4	73	1	<4	36	<0.1	20

DATE	TIME	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 02...	1030	1	<1	<1.0	44	26	5	15	114	72
FEB 21...	0800	<10	<1	2.0	44	6	26	27	824	66
APR 11...	0900	2	<1	<1.0	46	<6	95	39	3580	83
AUG 28...	0830	1	<1	<1.0	35	28	100	19	132	89

07362065 OUACHITA RIVER BELOW CAMDEN, ARKANSAS

LOCATION.--Lat 33°29'03", long 92°45'11", in NE ¼ SE ¼ sec.20, T.14 S., R.16 W., Ouachita County, Hydrologic Unit 08040201, at Frenchport Landing, 7.5 mi southeast of Camden, 6.5 mi downstream from Two Bayou Creek, and at mi 339.2.

DRAINAGE AREA.--5,676 mi².

PERIOD OF RECORD.--July 1969 to September 1972, November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20...	1430	9827	9827	3050	7.3	21.0	5.5	8.9	1.0
31...	1250	9827	9827	1800	7.3	18.0	6.0	8.8	1.5
DEC									
05...	1330	9827	9827	1110	7.0	11.0	6.6	9.8	1.2
JAN									
02...	1330	9827	9827	1920	6.9	7.0	20	10.5	3.5
FEB									
20...	1520	9827	9827	9160	6.8	12.0	20	9.3	2.2
MAR									
20...	1430	9827	9827	25100	6.7	15.0	20	7.8	0.9
APR									
17...	1330	9827	9827	22300	6.8	16.0	40	7.6	1.1
MAY									
15...	1240	9827	9827	16200	6.7	21.0	20	7.9	1.3
JUL									
24...	2400	9827	9827	2040	7.3	29.0	--	6.9	0.5
AUG									
21...	1400	9827	9827	2040	7.5	31.0	--	6.9	0.7
SEP									
25...	1215	9827	9827	1240	7.4	--	--	7.3	0.5

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
20...	1430	32	14	14	76	9	0.500	<0.050	0.60
31...	1250	28	20	13	82	29	0.370	<0.050	0.35
DEC									
05...	1330	--	13	11	62	10	0.210	0.120	0.88
JAN									
02...	1330	38	15	13	--	20	0.320	<0.050	0.52
FEB									
20...	1520	28	12	--	64	24	0.180	0.050	0.82
MAR									
20...	1430	20	8.0	4.7	56	18	0.140	<0.050	0.50
APR									
17...	1330	24	4.0	4.7	54	35	0.120	<0.050	0.66
MAY									
15...	1240	18	5.0	4.0	46	24	0.180	<0.050	0.69
JUL									
24...	2400	--	6.0	5.3	51	14	0.150	0.060	0.55
AUG									
21...	1400	22	10	7.1	66	8	0.410	--	0.41
SEP									
25...	1215	18	7.0	5.3	43	--	0.230	0.130	0.72

07362065 OUACHITA RIVER BELOW CAMDEN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
20...	1430	0.060	<0.030	--	--	<15	6	60	3.4
31...	1250	0.060	<0.030	<1	<1	<15	<1	<10	3.3
DEC									
05...	1330	0.070	<0.030	<1	<1	<15	2	20	4.5
JAN									
02...	1330	0.070	0.030	--	--	--	--	--	6.6
FEB									
20...	1520	0.080	<0.030	--	--	--	--	--	--
MAR									
20...	1430	0.060	<0.030	--	--	--	--	--	6.7
APR									
17...	1330	0.110	0.030	--	--	--	--	--	8.9
MAY									
15...	1240	0.080	<0.030	--	--	--	--	--	6.8
JUL									
24...	2400	0.050	0.050	--	--	--	--	--	6.7
AUG									
21...	1400	0.030	--	--	--	--	--	--	4.2
SEP									
25...	1215	0.160	<0.030	--	--	--	--	--	4.7

07362100 SMACKOVER CREEK NEAR SMACKOVER, ARKANSAS

LOCATION.--Lat 33°22'33", long 92°46'37", in NW ¼ SE ¼ 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 downstream from Camp Creek, 3.3 mi northwest of Smackover, and at mile 22.0.

DRAINAGE AREA.--385 mi².

PERIOD OF RECORD.--October 1961 to current year. Gage-height records collected and occasional discharge measurements made by U.S. Army 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 U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1967: 1965. WRD Ark. 1979: Drainage area.

GAGE.--Non-recording gage read once daily. Datum of gage is 97.56 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers.) Prior to Mar. 1, 1989, water-stage recorder at site 100 ft downstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--29 years, 425 ft³/s, 14.99 in/yr, 307,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,700 ft³/s June 8, 1974, gage height, 24.97 ft, from rating curve extended above 31,000 ft³/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.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 04	2200	20,600	a20.70	May 18	1800	4,270	a15.07
Mar. 09	1400	23,700	a21.28	May 22	1200	3,520	a14.38
Mar. 30	2200	12,400	a18.84	June 04	1000	*33,000	*a23.18
Apr. 08	1200	4,430	a15.43				

a from graph based on gage readings

Minimum discharge observed, 4.2 ft³/s Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	31	44	403	1100	317	3710	260	293	51	32	4.8
2	25	47	38	367	2090	413	2120	186	1250	43	20	7.4
3	25	47	33	298	4980	495	1710	182	14400	37	18	6.8
4	25	36	30	446	15800	450	1320	225	27800	32	21	7.2
5	21	29	28	563	15700	343	1080	252	11500	31	18	7.4
6	20	26	26	509	3210	654	1380	211	3600	28	18	7.6
7	21	26	29	420	2240	727	2790	165	1810	25	21	8.5
8	26	38	32	273	1650	3610	4100	138	1240	24	47	8.3
9	26	75	51	200	1340	18700	2510	130	808	23	26	13
10	29	96	55	170	1610	12300	1850	119	550	35	19	14
11	28	76	59	144	1910	4500	1630	125	303	60	16	14
12	23	54	57	125	1930	2360	1460	175	180	35	12	17
13	20	42	52	112	1560	1730	1210	1140	152	24	12	23
14	18	38	50	102	1160	1340	1090	2060	136	25	12	26
15	18	54	46	107	857	1310	1210	1910	124	23	12	21
16	17	58	46	101	869	1320	1300	1490	115	21	12	18
17	16	62	52	133	852	1290	1230	2130	104	20	12	16
18	22	60	51	779	644	1150	1060	3840	89	20	11	15
19	23	49	42	1080	463	1020	773	3370	78	19	11	14
20	25	41	39	1410	361	724	457	2710	69	19	11	31
21	25	40	40	1530	367	425	331	2750	63	18	10	28
22	20	48	41	1520	911	326	309	3400	60	18	11	69
23	21	101	41	1460	1360	292	480	2850	57	18	13	56
24	22	124	41	1280	1230	268	346	2130	55	18	17	29
25	21	117	39	822	876	265	254	1340	54	19	23	24
26	20	86	40	418	536	458	216	636	79	22	18	20
27	19	98	45	242	336	744	214	356	105	20	15	18
28	20	59	51	221	292	923	377	362	88	18	14	16
29	19	52	57	722	---	1640	581	456	88	17	14	15
30	22	47	70	1350	---	7760	466	475	64	18	10	14
31	29	---	227	1340	---	8630	---	370	---	32	7.4	---
TOTAL	690	1757	1552	18647	66234	76484	37564	35943	65314	813	513.4	569.0
MEAN	22.3	58.6	50.1	602	2365	2467	1252	1159	2177	26.2	16.6	19.0
MAX	29	124	227	1530	15800	18700	4100	3840	27800	60	47	69
MIN	16	26	26	101	292	265	214	119	54	17	7.4	4.8
AC-FT	1370	3490	3080	36990	131400	151700	74510	71290	129600	1610	1020	1130
CFSM	.06	.15	.13	1.56	6.14	6.41	3.25	3.01	5.65	.07	.04	.05
IN.	.07	.17	.15	1.80	6.40	7.39	3.63	3.47	6.31	.08	.05	.05

CAL YR 1989 TOTAL 279155 MEAN 765 MAX 6980 MIN 14 AC-FT 553700 CFSM 1.99 IN. 26.97
WTR YR 1990 TOTAL 306080.4 MEAN 839 MAX 27800 MIN 4.8 AC-FT 607100 CFSM 2.18 IN. 29.57

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, ARKANSAS

LOCATION.--Lat 33°22'46", long 92°43'09", in NE ¼ sec.35, T.15 S., R.16 W., Union County, Hydrologic Unit 08040201, at bridge on county road, 1.1 mi north of Smackover.

DRAINAGE AREA.--411 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20.	1300	9827	9827	27	6.3	21.0	8.0	5.9	0.7
31.	1320	9827	9827	31	6.5	17.0	7.0	6.3	0.9
DEC									
05.	1200	9827	9827	30	6.1	8.0	6.2	8.4	0.9
JAN									
02.	1200	9827	9827	--	6.6	6.0	15	10.3	1.9
FEB									
20.	1600	9827	9827	--	6.8	11.0	15	8.8	0.6
MAR									
20.	1400	9827	9827	--	6.2	14.0	9.2	7.1	0.8
APR									
17.	1530	9827	9827	--	6.3	17.0	8.7	6.0	0.7
MAY									
15.	1215	9827	9827	--	6.2	22.0	20	5.6	1.5
JUN									
19.	1145	9827	9827	--	6.2	30.0	--	2.2	2.1
JUL									
24.	1430	9827	9827	--	6.7	30.0	--	4.6	1.6
AUG									
21.	1430	9827	9827	--	6.9	33.0	--	4.8	2.1
SEP									
25.	1145	9827	9827	--	6.5	22.0	--	3.7	0.9

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
20.	1300	150	3.0	420	784	8	0.140	0.130	0.060
31.	1320	140	6.0	180	651	12	<0.020	0.180	0.030
DEC									
05.	1200	200	5.0	260	554	9	<0.020	0.160	0.060
JAN									
02.	1200	88	8.0	180	--	20	0.170	0.050	--
FEB									
20.	1600	48	11	--	207	14	0.030	0.090	0.070
MAR									
20.	1400	34	8.0	60	153	13	0.020	<0.050	0.050
APR									
17.	1530	26	4.0	42	113	14	0.020	0.060	0.080
MAY									
15.	1215	20	6.0	34	107	16	0.030	<0.030	0.090
JUN									
19.	1145	74	4.0	140	263	--	0.230	0.060	0.070
JUL									
24.	1430	--	3.0	330	745	10	0.160	0.110	0.060
AUG									
21.	1430	150	5.0	93	827	8	0.120	--	0.040
SEP									
25.	1145	70	5.0	120	417	--	0.110	0.110	0.060

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
20.	1300	<0.030	--	--	<15	2	40	5.1
31.	1320	<0.030	<1	1	<15	<2	10	4.9
DEC								
05.	1200	<0.030	<1	<1	<15	<2	40	5.2
JAN								
02.	1200	1.48	--	--	--	--	--	6.7
FEB								
20.	1600	<0.030	--	--	--	--	--	--
MAR								
20.	1400	<0.030	--	--	--	--	--	11
APR								
17.	1530	<0.030	--	--	--	--	--	12
MAY								
15.	1215	<0.030	--	--	--	--	--	14
JUN								
19.	1145	<0.030	--	--	--	--	--	9.2
JUL								
24.	1430	0.050	--	--	--	--	--	8.9
AUG								
21.	1430	--	--	--	--	--	--	7.5
SEP								
25.	1145	<0.030	--	--	--	--	--	8.3

07362480 JUG CREEK NEAR FORDYCE, ARKANSAS

LOCATION.--Lat 33°49'29", long 92°23'13", in NE ¼ NW ¼ sec.25, T.10 S., R.13 W., Dallas County, Hydrologic Unit 08040201, at bridge on county road 1.3 mi northeast of Fordyce.

PERIOD OF RECORD.--October 1986 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
02.	1120	9827	9827	7.7	22.0	10	1.5	3.5	76
31.	1145	9827	9827	7.9	17.0	15	4.2	--	100
DEC									
05.	1130	9827	9827	7.5	9.0	8.0	4.7	--	90
JAN									
02.	1300	9827	9827	7.5	7.0	25	--	--	82
FEB									
06.	1054	9827	9827	7.4	11.0	20	8.7	--	58
MAR									
06.	1045	9827	9827	7.2	15.0	30	5.1	4.1	68
APR									
03.	1110	9827	9827	7.1	15.0	20	5.1	4.3	62
MAY									
15.	1110	9827	9827	7.3	24.0	20	5.2	--	62
JUN									
05.	1220	9827	9827	7.0	25.0	--	6.8	6.0	58
JUL									
10.	1225	9827	9827	7.7	31.0	--	5.9	--	84
AUG									
07.	1112	9827	9827	7.5	25.0	--	2.1	8.0	72
SEP									
04.	1105	9827	9827	7.9	27.0	--	2.2	7.4	62

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
02.	1120	30	55	359	31	<0.020	5.80	11	4.50
31.	1145	--	94	454	29	7.60	--	2.4	6.30
DEC									
05.	1130	36	84	418	12	1.10	--	8.4	4.20
JAN									
02.	1300	31	78	342	21	0.250	5.84	9.0	3.75
FEB									
06.	1054	21	25	187	19	--	2.99	2.8	1.38
MAR									
06.	1045	27	44	265	38	0.500	2.52	4.5	1.58
APR									
03.	1110	20	22	201	17	0.450	3.87	4.2	1.55
MAY									
15.	1110	20	26	216	25	0.580	5.85	7.1	2.30
JUN									
05.	1220	16	44	243	22	4.60	1.50	1.6	2.90
JUL									
10.	1225	21	78	527	35	0.220	1.96	6.4	2.90
AUG									
07.	1112	19	55	298	26	--	--	3.2	4.25
SEP									
04.	1105	25	54	--	31	0.110	--	8.6	5.20

07362480 JUG CREEK NEAR FORDYCE, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1120	4.10	<1	<1	23	2	10	--
31.	1145	5.60	<1	<1	<15	<2	<10	--
DEC								
05.	1130	3.60	<1	<1	--	<2	10	19
JAN								
02.	1300	2.92	--	--	--	--	--	25
FEB								
06.	1054	--	--	--	--	--	--	16
MAR								
06.	1045	1.13	--	--	--	--	--	15
APR								
03.	1110	--	--	--	--	--	--	15
MAY								
15.	1110	1.80	--	--	--	--	--	17
JUN								
05.	1220	2.32	--	--	--	--	--	13
JUL								
10.	1225	2.19	--	--	--	--	--	21
AUG								
07.	1112	2.85	--	--	--	--	--	23
SEP								
04.	1105	4.10	--	--	--	--	--	30

07362550 MORO CREEK NEAR BANKS, ARKANSAS

LOCATION.--Lat 33°32'38", long 92°19'00", 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 west of Banks.

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--April 1974 to September 1978, October 1979 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
FEB 20...	1330	9827	9827	460	7.1	10.0	15	9.0	0.7	12
MAR 20...	1540	9827	9827	320	6.5	15.0	20	7.9	1.1	10
MAY 15...	1445	9827	9827	520	6.5	24.0	25	5.5	1.6	12
JUN 19...	1430	9827	9827	0.0	6.4	31.0	--	2.6	1.6	22
SEP 25...	1430	9827	9827	0.0	7.5	24.0	--	11.9	7.7	14

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
FEB 20...	1330	9.0	--	52	7	<0.020	<0.050	0.050	<0.030	--
MAR 20...	1540	8.0	5.0	71	14	<0.020	<0.050	0.060	<0.030	13
MAY 15...	1445	6.0	3.8	57	22	0.090	0.050	0.100	<0.030	15
JUN 19...	1430	6.0	5.6	61	--	0.440	0.080	0.130	0.070	14
SEP 25...	1430	5.0	5.6	69	--	<0.020	<0.050	0.250	<0.030	18

07362587 ALUM FORK SALINE RIVER NEAR REFORM, ARKANSAS

LOCATION.--Lat 34°47'50", long 92°56'00", in NE ¼ sec. 29, T. 2 N., R. 18 W., Saline County, Hydrologic Unit 08040203, low-water bridge, 0.4 mile downstream from Bread Creek, and 5.7 miles upstream from Lake Winona dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY										
22...	1000	80513	80020	23	21	6.0	20.0	8.6	97	740
22...	1005	80513	80020	--	--	--	--	--	--	--
AUG										
28...	1000	80513	80020	2.7	33	6.8	25.5	6.7	84	743

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
MAY										
22...	1000	6.9	35	K200	K1800	8	1.3	1.2	1.3	24
AUG										
28...	1000	3.6	20	K4	820	10	1.7	1.4	1.2	20

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
MAY									
22...	1000	0.2	0.60	6	1.5	3.0	0.10	27	0.04
AUG									
28...	1000	0.2	0.60	11	1.4	2.0	<0.10	25	0.03

DATE	TIME	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
22...	1000	1.69	15	0.94	<0.100	<0.100	--	0.020	--
22...	1005	--	--	--	--	--	5.0	--	1.0
AUG									
28...	1000	0.18	22	0.16	<0.100	<0.100	--	0.020	--

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
22...	1000	--	<0.20	<0.010	<0.010	0.010	--	2.9	<10
22...	1005	--	--	--	--	--	71	--	--
AUG									
28...	1000	0.28	0.30	<0.010	<0.010	0.010	--	2.5	20

07362587 ALUM FORK SALINE RIVER NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
22...	1000	<1	--	<100	--	<1	--	1	--	410
22...	1005	--	5	--	20	--	<1	--	9	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
22...	1000	--	3	--	20	--	<1	<1	--	--
22...	1005	12000	--	<10	--	98	--	--	<1	20

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
22...	1000	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
22...	1005	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
22...	1000	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
22...	1005	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
22...	1000	--	<0.01	--	--	--	--	--	--	--
22...	1005	<0.1	--	<1.0	<0.1	<0.1	<1.0	<0.1	0.1	<0.1

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
22...	1005	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1

07362587 ALUM FORK SALINE RIVER NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT										
02...	0930	80513	80020	2.7	25	6.6	17.0	7.7	82	742
JAN										
19...	1030	80513	80020	--	22	6.1	7.5	10.7	91	745
29...	0945	80513	80020	53	23	6.5	6.0	11.8	97	742
MAR										
30...	1030	80513	80020	466	20	6.5	11.0	12.2	114	739
APR										
02...	0900	80513	80020	65	20	6.5	12.5	10.1	97	745
AUG										
28...	1000	80513	80020	0.00	42	6.7	30.0	6.1	82	754
28...	1005	80513	80020	--	--	--	--	--	--	--

DATE	TIME	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT										
02...	0930	8.9	30	170	2300	8	1.4	1.1	1.2	23
JAN										
19...	1030	1.6	100	K430	4700	7	1.5	0.87	0.70	15
29...	0945	6.3	33	30	420	--	1.2	0.96	1.1	--
MAR										
30...	1030	10	45	65	K1400	6	1.2	0.68	0.90	24
APR										
02...	0900	5.7	25	K12	680	5	0.99	0.71	1.0	27
AUG										
28...	1000	1.9	8	0	700	14	2.5	2.0	1.9	21

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT									
02...	0930	0.2	0.50	7	1.3	2.0	<0.10	17	0.02
JAN									
19...	1030	0.1	1.0	3	1.4	3.0	<0.10	34	0.05
29...	0945	--	0.50	6	1.5	3.0	<0.10	15	--
MAR									
30...	1030	0.2	0.40	3	1.6	2.6	0.10	28	0.04
APR									
02...	0900	0.2	0.40	4	1.6	2.4	<0.10	23	0.03
AUG									
28...	1000	0.2	0.70	15	1.8	1.9	<0.10	19	0.03

DATE	TIME	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
OCT									
02...	0930	0.12	11	0.08	<0.100	<0.100	--	0.020	--
JAN									
19...	1030	--	23	--	<0.100	<0.100	--	0.020	--
29...	0945	--	6	0.80	<0.100	<0.100	--	0.020	--
MAR									
30...	1030	35.2	6	7.5	<0.100	<0.100	--	0.010	--
APR									
02...	0900	4.01	10	1.7	<0.100	<0.100	--	0.010	--
AUG									
28...	1000	0.00	8	0.00	0.100	<0.100	--	0.020	--
28...	1005	--	--	--	--	--	<2.0	--	4.2

07362587 ALUM FORK SALINE RIVER NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
OCT									
02...	0930	0.48	0.50	<0.010	0.020	0.030	--	4.0	10
JAN									
19...	1030	0.48	0.50	0.010	0.030	0.020	--	11	<10
29...	0945	0.28	0.30	<0.010	0.020	0.020	--	1.7	<10
MAR									
30...	1030	0.29	0.30	<0.010	<0.010	0.010	--	4.6	<10
APR									
02...	0900	0.29	0.30	<0.010	0.010	0.030	--	1.9	<10
AUG									
28...	1000	0.18	0.20	<0.010	<0.010	0.010	--	2.7	<10
28...	1005	--	--	--	--	--	260	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
JAN										
29...	0945	<1	--	<100	--	<1	--	<1	--	340
AUG										
28...	1000	<1	--	--	--	<1	--	<1	--	380
28...	1005	--	64	--	<10	--	<1	--	10	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
JAN										
29	0945	--	3	--	<10	--	<1	<1	--	--
AUG										
28...	1000	--	<1	--	40	--	<1	<1	--	--
28...	1005	10000	--	10	--	170	--	--	<1	20

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
29...	0945	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
29...	0945	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM, ARKANSAS

LOCATION.--Lat 34°48'28", long 92°54'06", in NE ¼ of sec. 22, T. 2 N., R. 18 W., Saline County, Hydrologic Unit 08040203, 0.5 mile downstream from Stillhouse Creek, and 3.4 miles upstream from dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
23...	1345	80513	80020	0.0	14.0	21	6.1	26.0	742	7.9	100
23...	1347	80513	80020	2.00	14.0	21	6.1	25.0	742	7.9	98
23...	1349	80513	80020	3.00	14.0	21	6.0	24.0	742	7.8	95
23...	1351	80513	80020	6.00	14.0	22	6.0	23.0	742	7.8	93
23...	1353	80513	80020	7.00	14.0	22	5.9	22.5	742	7.5	89
23...	1355	80513	80020	8.00	14.0	22	5.8	21.5	742	7.3	85
23...	1357	80513	80020	11.0	14.0	23	5.8	21.0	742	7.0	81
23...	1359	80513	80020	13.0	14.0	26	5.8	20.0	742	6.5	73
23...	1401	80513	80020	14.0	14.0	24	5.7	20.0	742	6.5	73
23...	1403	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
23.	1345	2.20	--	--	--	--	--	--	--	--
23.	1349	--	2.5	25	1	K6	7	1.3	0.82	0.90
23.	1357	--	5.4	25	160	200	7	1.3	0.84	1.1

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
23.	1349	21	0.2	0.60	6	1.2	3.0	<0.10	28
23.	1357	25	0.2	0.50	7	1.2	3.0	0.10	<1

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
23.	1347	--	1.50	0.200	--	--	--	--	--
23.	1349	0.04	--	--	<0.100	<0.100	--	0.010	--
23.	1357	0.02	--	--	<0.100	<0.100	--	<0.010	--
23.	1403	--	--	--	--	--	5.0	--	5.1

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
23.	1349	0.19	0.20	<0.010	<0.010	<0.010	--	3.9	<10
23.	1357	--	0.40	<0.010	<0.010	<0.010	--	3.0	<10
23.	1403	--	--	--	--	--	40	--	--

07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
23...	1349	<1	--	<100	--	<1	--	<1	--	250
23...	1357	<1	--	<100	--	<1	--	1	--	470
23...	1403	--	1	--	10	--	<1	--	6	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
23...	1349	--	2	--	20	--	<1	<1	--	--
23...	1357	--	1	--	20	--	<1	<1	--	--
23...	1403	9200	--	<10	--	33	--	--	<1	20

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
23...	1349	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
23...	1357	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
23...	1403	--	<0.1	--	<0.1	--	<0.1	--	0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
23...	1349	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
23...	1357	--	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	--	<0.01
23...	1403	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
MAY										
23...	1349	--	<0.01	--	--	--	--	--	--	--
23...	1357	--	<0.01	--	--	--	--	--	--	--
23...	1403	<0.1	--	<1.0	<0.1	<0.1	<1.0	0.1	0.2	<0.1

DATE	TIME	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39758)
MAY										
23...	1403	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1

07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
29...	0930	80513	80020	0.0	13.0	25	6.8	29.5	744	7.7	104
29...	0932	80513	80020	2.00	13.0	24	6.6	29.5	744	7.5	100
29...	0934	80513	80020	5.00	13.0	24	6.5	29.5	744	7.4	99
29...	0936	80513	80020	7.00	13.0	24	6.3	29.0	744	6.7	89
29...	0938	80513	80020	9.00	13.0	25	5.9	28.5	744	5.2	69
29...	0940	80513	80020	11.0	13.0	27	5.5	27.0	744	3.8	49
29...	0942	80513	80020	13.0	13.0	27	5.4	25.5	744	1.8	22

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
29...	0930	2.80	--	--	--	--	--	--	--	--	--
29...	0932	--	0.50	10	4	42	8	1.5	1.0	1.0	21
29...	0938	--	1.4	30	7	36	9	1.6	1.1	1.0	19

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG											
29...	0932	0.2	0.40	7	0.90	2.0	<0.10	17	0.02	1.50	0.100
29...	0938	0.1	0.50	8	1.0	2.0	<0.10	20	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG											
29...	0932	<0.100	<0.100	0.010	0.29	0.30	<0.010	<0.010	<0.010	3.9	<10
29...	0938	<0.100	<0.100	<0.010	--	0.30	<0.010	<0.010	<0.010	3.8	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN											
30...	1000	80513	80020	0.0	12.0	22	6.4	7.5	740	11.1	95
30...	1000	80513	80020	0.0	12.0	22	6.4	7.5	740	11.1	95
30...	1002	80513	80020	2.00	12.0	22	6.4	7.5	740	11.1	95
30...	1002	80513	80020	2.00	12.0	22	6.4	7.5	740	11.1	95
30...	1004	80513	80020	5.00	12.0	22	6.4	7.0	740	11.1	94
30...	1004	80513	80020	5.00	12.0	22	6.4	7.0	740	11.1	94
30...	1006	80513	80020	9.00	12.0	22	6.4	7.0	740	11.1	94
30...	1006	80513	80020	9.00	12.0	22	6.4	7.0	740	11.1	94
30...	1008	80513	80020	10.0	12.0	21	6.5	7.0	740	11.0	93
30...	1008	80513	80020	10.0	12.0	21	6.5	7.0	740	11.0	93
30...	1010	80513	80020	12.0	12.0	21	6.4	7.0	740	11.1	94
30...	1010	80513	80020	12.0	12.0	21	6.4	7.0	740	11.1	94

07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
30...	1000	1.80	--	--	--	--	--	--	--	--	--
30...	1002	--	5.0	35	2	43	7	1.4	0.90	1.0	22
30...	1006	--	5.3	27	9	60	7	1.4	0.78	1.0	23

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN											
30...	1002	0.2	0.40	6	1.5	3.0	<0.10	27	0.04	0.200	<0.100
30...	1006	0.2	0.50	5	1.3	3.0	0.10	24	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JAN											
30...	1002	<0.100	<0.100	0.030	--	<0.20	<0.010	<0.010	<0.010	3.3	<10
30...	1006	<0.100	<0.100	0.020	0.48	0.50	<0.010	<0.010	<0.010	3.2	<10

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)
JAN										
30...	1002	<1	100	<1	<1	310	1	50	<1	<1
30...	1006	<1	<100	<1	<1	260	1	50	<1	<1

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
JAN									
30...	1002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
JAN								
30...	1002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1006	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
APR											
03...	0930	80513	80020	0.0	15.0	19	6.1	12.5	748	9.8	94
03...	0932	80513	80020	2.00	15.0	19	6.2	12.5	748	9.4	90
03...	0934	80513	80020	3.00	15.0	19	6.2	12.5	748	9.4	90
03...	0936	80513	80020	10.0	15.0	19	6.2	12.5	748	9.0	86
03...	0938	80513	80020	12.0	15.0	20	6.2	11.5	748	9.0	84
03...	0940	80513	80020	15.0	15.0	20	6.2	11.0	748	8.8	81

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
03...	0930	1.20	--	--	--	--	--	--	--	--	--
03...	0934	--	6.2	35	6	40	7	1.4	0.74	0.90	21
03...	0938	--	7.2	45	20	77	7	1.4	0.78	0.90	21

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
APR											
03...	0932	--	--	--	--	--	--	--	--	0.300	<0.100
03...	0934	0.2	0.50	4	1.6	3.0	0.10	26	0.03	--	--
03...	0938	0.2	0.50	5	1.5	2.9	<0.10	24	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
APR											
03...	0934	<0.100	<0.100	0.020	0.88	0.90	<0.010	<0.010	<0.010	3.3	<10
03...	0938	<0.100	<0.100	0.030	0.87	0.90	<0.010	<0.010	0.010	4.4	<10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
27...	1100	80513	80020	0.0	18.0	22	6.0	30.5	747	7.2	98
27...	1101	80513	80020	1.00	18.0	22	6.1	29.5	747	7.1	95
27...	1102	80513	80020	2.00	18.0	21	6.1	29.5	747	6.8	91
27...	1105	80513	80020	4.00	18.0	22	6.0	29.5	747	6.4	86
27...	1107	80513	80020	6.00	18.0	23	6.0	29.0	747	5.8	77
27...	1109	80513	80020	8.00	18.0	22	5.8	28.5	747	4.5	59
27...	1110	80513	80020	10.0	18.0	23	5.6	28.0	747	2.7	36
27...	1111	80513	80020	11.0	18.0	24	5.5	27.0	747	0.7	9
27...	1112	80513	80020	12.0	18.0	25	5.4	25.5	747	0.2	2
27...	1114	80513	80020	13.0	18.0	32	5.5	23.5	747	0.1	1
27...	1116	80513	80020	14.0	18.0	39	5.6	22.5	747	0.1	1
27...	1118	80513	80020	15.0	18.0	40	5.6	22.0	747	0.1	1
27...	1119	80513	80020	16.0	18.0	51	5.7	20.5	747	0.1	1
27...	1121	80513	80020	17.0	18.0	55	5.9	18.5	747	0.1	1
27...	1122	80513	80020	18.0	18.0	58	6.1	18.5	747	0.1	1
27...	1130	80513	80020	--	--	--	--	--	--	--	--

07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
AUG										
27.	1100	2.00	--	--	--	--	--	--	--	--
27.	1105	--	1.5	14	0	68	7	1.5	0.88	0.90
27.	1116	--	4.0	48	0	K310	9	1.9	1.1	0.90

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
AUG									
27.	1105	20	0.1	0.40	6	1.3	2.2	<0.10	16
27.	1116	17	0.1	0.50	9	1.3	1.9	<0.10	19

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
AUG									
27.	1102	--	3.90	0.900	--	--	--	--	--
27.	1105	0.02	--	--	<0.100	<0.100	--	<0.010	--
27.	1116	0.03	--	--	<0.100	<0.100	--	0.020	--
27.	1130	--	--	--	--	--	<2.0	--	13

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG									
27.	1105	--	0.30	<0.010	<0.010	<0.010	--	4.2	10
27.	1116	0.48	0.50	<0.010	<0.010	0.020	--	5.1	10
27.	1130	--	--	--	--	--	190	--	--

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
AUG									
27...	1105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27...	1116	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
AUG								
27...	1105	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
27...	1116	--	--	--	--	<0.01	<0.01	--

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS

LOCATION.--Lat 34°48'16", long 92°51'16", in SE ¼ sec. 24, T. 2 N., R. 18 W., Saline County, Hydrologic Unit 08040203, 0.1 mile downstream from Gillis Branch, and 1.3 miles upstream from dam.'

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
24...	1000	80513	80020	0.0	67.0	21	6.4	25.5	738	8.5	107
24...	1002	80513	80020	2.00	67.0	21	6.4	25.5	738	8.5	107
24...	1004	80513	80020	3.00	67.0	21	6.4	25.0	738	8.4	106
24...	1006	80513	80020	4.00	67.0	21	6.5	24.5	738	8.5	105
24...	1008	80513	80020	5.00	67.0	20	6.5	23.0	738	8.7	105
24...	1010	80513	80020	8.00	67.0	20	6.4	22.0	738	8.7	103
24...	1012	80513	80020	10.0	67.0	20	6.4	21.5	738	8.7	102
24...	1014	80513	80020	13.0	67.0	20	6.3	20.5	738	8.1	93
24...	1016	80513	80020	15.0	67.0	20	6.0	19.5	738	7.7	86
24...	1018	80513	80020	17.0	67.0	20	5.9	18.5	738	7.3	81
24...	1020	80513	80020	18.0	67.0	20	5.8	17.5	738	6.9	75
24...	1022	80513	80020	20.0	67.0	20	5.8	16.5	738	6.5	69
24...	1024	80513	80020	22.0	67.0	20	5.8	15.5	738	6.6	69
24...	1026	80513	80020	23.0	67.0	20	5.8	13.5	738	6.8	68
24...	1028	80513	80020	25.0	67.0	20	6.0	12.5	738	7.2	70
24...	1030	80513	80020	27.0	67.0	20	5.9	11.5	738	7.4	69
24...	1032	80513	80020	30.0	67.0	20	5.9	10.5	738	7.3	67
24...	1034	80513	80020	33.0	67.0	20	5.9	9.5	738	7.6	69
24...	1036	80513	80020	40.0	67.0	20	6.0	8.5	738	7.7	68
24...	1038	80513	80020	50.0	67.0	20	6.7	7.5	738	8.2	71
24...	1040	80513	80020	54.0	67.0	20	6.2	7.5	738	8.4	72
24...	1042	80513	80020	60.0	67.0	21	6.1	7.0	738	8.1	69
24...	1044	80513	80020	67.0	67.0	21	6.0	7.0	738	7.9	68
24...	1050	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
24.	1000	2.40	--	--	--	--	--	--	--	--
24.	1014	--	2.8	20	<3	11	7	1.3	0.82	0.90
24.	1040	--	3.5	30	0	1	7	1.3	0.79	0.90

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
24.	1014	21	0.2	0.50	5	0.90	3.0	0.10	6
24.	1040	22	0.2	0.50	5	0.90	3.0	0.10	12

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
24.	1002	--	1.60	0.300	--	--	--	--	--
24.	1014	0.01	--	--	<0.100	<0.100	--	0.020	--
24.	1040	0.02	--	--	<0.100	<0.100	--	0.030	--
24.	1050	--	--	--	--	--	4.0	--	86

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
MAY									
24.	1014	0.28	0.30	0.070	0.020	0.010	--	4.2	10
24.	1040	0.17	0.20	0.020	<0.010	<0.010	--	5.5	<10
24.	1050	--	--	--	--	--	490	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
MAY										
24...	1014	<1	--	<100	--	<1	--	1	--	210
24...	1040	<1	--	<100	--	<1	--	<1	--	170
24...	1050	--	7	--	220	--	<1	--	20	--

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
MAY										
24...	1014	--	1	--	20	--	<1	<1	--	--
24...	1040	--	1	--	20	--	<1	<1	--	--
24...	1050	33000	--	30	--	830	--	--	<1	80

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	METHYL PARATHION, TOTAL (UG/L) (39600)
MAY										
24...	1014	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
24...	1040	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
24...	1050	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	METHYL TRITHION, TOTAL (UG/L) (39790)
MAY										
24...	1014	--	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	--	<0.01
24...	1040	--	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
24...	1050	<0.1	--	--	--	--	--	--	<0.1	--

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39343)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39373)
MAY										
24...	1014	--	<0.01	--	--	--	--	--	--	--
24...	1040	--	<0.01	--	--	--	--	--	--	--
24...	1050	<0.1	--	<1.0	<0.1	<0.1	2.0	3.2	6.6	<0.1

DATE	TIME	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39383)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39393)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39403)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39758)
MAY										
24...	1050	<0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	1	<0.1

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG											
29...	1025	80513	80020	0.0	54.0	24	6.2	29.5	745	7.7	103
29...	1027	80513	80020	2.00	54.0	24	6.3	29.5	745	7.6	102
29...	1029	80513	80020	5.00	54.0	24	6.3	29.5	745	7.5	101
29...	1031	80513	80020	10.0	54.0	23	6.3	29.0	745	7.4	98
29...	1033	80513	80020	12.0	54.0	24	6.1	28.0	745	7.0	91
29...	1035	80513	80020	14.0	54.0	25	5.8	26.5	745	5.0	64
29...	1037	80513	80020	15.0	54.0	24	5.6	25.5	745	4.5	56
29...	1039	80513	80020	16.0	54.0	24	5.5	24.5	745	3.6	44
29...	1041	80513	80020	17.0	54.0	24	5.3	23.0	745	1.6	20
29...	1043	80513	80020	18.0	54.0	24	5.3	22.0	745	0.5	6
29...	1045	80513	80020	19.0	54.0	24	5.3	21.5	745	0.5	5
29...	1047	80513	80020	20.0	54.0	25	5.3	20.0	745	0.3	3
29...	1049	80513	80020	21.0	54.0	24	5.4	17.5	745	0.4	4
29...	1051	80513	80020	22.0	54.0	24	5.4	16.5	745	0.7	7
29...	1053	80513	80020	23.0	54.0	22	5.4	15.5	745	1.4	14
29...	1055	80513	80020	25.0	54.0	23	5.6	14.5	745	2.2	22
29...	1057	80513	80020	27.0	54.0	23	5.6	13.5	745	2.8	27
29...	1059	80513	80020	29.0	54.0	23	5.7	12.0	745	2.9	28
29...	1101	80513	80020	30.0	54.0	23	5.8	11.5	745	3.2	30
29...	1103	80513	80020	35.0	54.0	23	5.8	10.5	745	3.2	30
29...	1105	80513	80020	40.0	54.0	23	5.9	9.0	745	4.1	36
29...	1107	80513	80020	42.0	54.0	24	5.9	9.0	745	4.1	36
29...	1109	80513	80020	50.0	54.0	24	6.0	8.5	745	4.2	36
29...	1111	80513	80020	54.0	54.0	24	6.1	8.0	745	4.5	39

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
29...	1025	3.70	--	--	--	--	--	--	--	--	--
29...	1031	--	1.4	25	2	K490	7	1.4	0.88	0.90	20
29...	1107	--	0.40	10	1	4	8	1.5	0.94	0.90	19

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG											
29...	1027	--	--	--	--	--	--	--	--	0.800	<0.100
29...	1031	0.1	0.50	6	0.90	3.0	<0.10	26	0.03	--	--
29...	1107	0.1	0.50	7	1.0	2.0	<0.10	22	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG										
29...	1031	0.100	0.100	<0.010	0.20	<0.010	<0.010	<0.010	4.1	<10
29...	1107	<0.100	<0.100	<0.010	<0.20	<0.010	<0.010	<0.010	3.5	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN											
30...	1100	80513	80020	0.0	59.0	22	6.5	7.0	739	12.5	106
30...	1102	80513	80020	2.00	59.0	22	6.5	7.0	739	12.0	102
30...	1104	80513	80020	10.0	59.0	22	6.6	7.0	739	11.8	100
30...	1106	80513	80020	12.0	59.0	22	6.6	6.5	739	11.7	98
30...	1108	80513	80020	20.0	59.0	22	6.6	6.5	739	11.7	98
30...	1110	80513	80020	30.0	59.0	22	6.6	6.5	739	11.5	96
30...	1112	80513	80020	40.0	59.0	22	6.6	6.5	739	11.4	96
30...	1114	80513	80020	47.0	59.0	22	6.6	6.5	739	11.5	96
30...	1116	80513	80020	50.0	59.0	21	6.6	6.5	739	11.4	96
30...	1118	80513	80020	59.0	59.0	21	6.6	6.5	739	11.3	95

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
30...	1100	2.10	--	--	--	--	--	--	--	--	--
30...	1106	--	3.2	25	3	35	7	1.5	0.86	0.90	20
30...	1114	--	3.1	28	4	50	7	1.5	0.84	0.90	20

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN											
30...	1102	--	--	--	--	--	--	--	--	1.00	0.200
30...	1106	0.1	0.60	6	1.1	3.0	0.10	29	0.04	--	--
30...	1114	0.1	0.50	6	1.1	3.0	0.10	30	0.04	--	--

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
JAN										
30...	1106	<0.100	<0.100	0.020	<0.20	<0.010	<0.010	<0.010	4.1	<10
30...	1114	<0.100	<0.100	0.020	<0.20	<0.010	<0.010	0.020	3.9	<10

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
JAN										
30...	1106	<1	<100	<1	<1	280	1	120	<1	<1
30...	1114	<1	100	<1	<1	340	<1	120	<1	<1

DATE	TIME	PHORATE OTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
JAN									
30...	1106	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1114	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
JAN								
30...	1106	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1114	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
APR											
03...	1030	80513	80020	0.0	60.0	20	6.3	13.5	748	10.7	105
03...	1032	80513	80020	2.00	60.0	20	6.4	13.5	748	10	97
03...	1034	80513	80020	10.0	60.0	20	6.4	13.0	748	9.8	96
03...	1036	80513	80020	12.0	60.0	20	6.4	13.0	748	9.8	95
03...	1038	80513	80020	20.0	60.0	20	6.5	12.5	748	9.5	91
03...	1040	80513	80020	25.0	60.0	20	6.4	11.5	748	9.3	86
03...	1042	80513	80020	30.0	60.0	20	6.4	10.5	748	9.0	83
03...	1044	80513	80020	40.0	60.0	21	6.3	10.0	748	8.9	80
03...	1046	80513	80020	48.0	60.0	21	6.3	9.0	748	8.6	76
03...	1048	80513	80020	50.0	60.0	21	6.3	9.0	748	8.5	75
03...	1050	80513	80020	60.0	60.0	21	6.2	9.0	748	8.5	74

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
03...	1030	2.00	--	--	--	--	--	--	--	--	--
03...	1036	--	--	--	3	4	--	--	--	--	--
03...	1046	--	3.9	18	3	28	7	1.5	0.85	1.0	22

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
APR											
03...	1032	--	--	--	--	--	--	--	--	0.900	0.200
03...	1036	--	--	4	--	--	--	--	--	--	--
03...	1046	0.2	0.50	5	1.7	3.3	0.10	25	0.03	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
APR											
03...	1036	--	<0.100	0.010	0.39	0.40	--	<0.010	0.010	4.3	--
03...	1046	<0.100	<0.100	0.030	0.17	0.20	<0.010	<0.010	<0.010	3.9	<10

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG											
27...	1335	80513	80020	0.0	57.0	22	6.3	31.5	747	7.5	104
27...	1336	80513	80020	1.00	57.0	22	6.3	31.0	747	7.2	99
27...	1337	80513	80020	2.00	57.0	21	6.4	30.5	747	7.3	100
27...	1338	80513	80020	5.00	57.0	21	6.4	29.5	747	7.4	99
27...	1339	80513	80020	8.00	57.0	22	6.4	29.5	747	7.4	99
27...	1340	80513	80020	10.0	57.0	21	6.3	29.0	747	7.3	97
27...	1341	80513	80020	11.0	57.0	22	6.3	28.0	747	7.1	93
27...	1343	80513	80020	12.0	57.0	21	6.0	27.0	747	6.2	79
27...	1344	80513	80020	13.0	57.0	21	5.8	25.0	747	5.2	65
27...	1345	80513	80020	14.0	57.0	21	5.7	24.0	747	3.7	45
27...	1346	80513	80020	15.0	57.0	21	5.6	22.0	747	2.6	30
27...	1348	80513	80020	16.0	57.0	21	5.6	21.0	747	1.8	21
27...	1350	80513	80020	17.0	57.0	21	5.7	19.5	747	1.6	18
27...	1351	80513	80020	18.0	57.0	22	5.8	18.0	747	1.3	14
27...	1353	80513	80020	19.0	57.0	22	5.9	17.5	747	0.8	9
27...	1355	80513	80020	20.0	57.0	23	5.9	16.0	747	1	10
27...	1356	80513	80020	21.0	57.0	21	5.9	15.5	747	1.4	14
27...	1358	80513	80020	22.0	57.0	21	5.9	15.0	747	1.1	11
27...	1400	80513	80020	23.0	57.0	22	6.0	14.5	747	1.8	18
27...	1401	80513	80020	24.0	57.0	23	6.0	13.5	747	1	10
27...	1402	80513	80020	25.0	57.0	24	6.0	13.5	747	0.9	9
27...	1404	80513	80020	27.0	57.0	24	6.0	13.0	747	1.3	12
27...	1405	80513	80020	30.0	57.0	25	6.1	12.5	747	1.4	13
27...	1406	80513	80020	35.0	57.0	23	6.1	11.5	747	2.3	21
27...	1407	80513	80020	40.0	57.0	24	6.1	11.0	747	2.4	22
27...	1409	80513	80020	45.0	57.0	25	6.1	10.5	747	2.4	22
27...	1411	80513	80020	50.0	57.0	25	6.2	10.5	747	2.3	21
27...	1412	80513	80020	55.0	57.0	25	6.2	10.0	747	2.3	21
27...	1413	80513	80020	57.0	57.0	26	6.1	10.0	747	1.7	15
27...	1415	80513	80020	--	--	--	--	--	--	--	--

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
AUG									
27...	1335	3.40	--	--	--	--	--	--	--
27...	1341	--	1.0	6	1	42	8	1.5	0.93
27...	1409	--	3.8	47	0	41	8	1.6	0.95

DATE	TIME	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
AUG									
27...	1341	0.90	19	0.1	0.50	5	1.1	2.2	<0.10
27...	1409	0.90	19	0.1	0.50	6	1.3	2.5	<0.10

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
AUG									
27...	1337	--	--	0.700	<0.100	--	--	--	--
27...	1341	21	0.03	--	--	<0.100	<0.100	--	<0.010
27...	1409	32	0.04	--	--	0.100	0.100	--	<0.010
27...	1415	--	--	--	--	--	--	<2.0	--

DATE	TIME	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG									
27...	1341	--	0.20	<0.010	<0.010	0.020	--	4.3	10
27...	1409	--	0.30	<0.010	<0.010	0.010	--	3.8	<10
27...	1415	14	--	--	--	--	160	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
AUG										
27...	1341	<1	--	<100	--	<1	--	<1	--	100
27...	1409	<1	--	<100	--	<1	--	<1	--	980
27...	1415	--	35	--	60	--	<1	--	6	--

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
AUG										
27...	1341	--	<1	--	20	--	<1	<1	--	--
27...	1409	--	<1	--	700	--	<1	<1	--	--
27...	1415	14000	--	20	--	470	--	--	<1	30

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALATHION, TOTAL (UG/L) (39530)	PARATHION, TOTAL (UG/L) (39540)	DIAZINON, TOTAL (UG/L) (39570)	METHYL PARATHION, TOTAL (UG/L) (39600)	PICLORAM (TORDON) (AMDON) TOTAL (UG/L) (39720)
AUG									
27...	1341	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27...	1409	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRITHION (UG/L) (39786)	METHYL TRITHION, TOTAL (UG/L) (39790)	DICAMBA (MEDIBEN) (BANVEL D) TOTAL (UG/L) (82052)
AUG								
27...	1341	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27...	1409	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07362590 LAKE WINONA AT REFORM, ARKANSAS

LOCATION.--Lat 34°47'51", long 92°50'43", in SE ¼ sec. 19, T. 2 N., R. 17 W., Saline County, Hydrologic Unit 08040203, 0.3 mile upstream from dam.

PERIOD OF RECORD.--May 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY											
24...	1315	80513	80020	0.0	90.0	20	6.7	24.5	738	8.5	105
24...	1317	80513	80020	2.00	90.0	20	6.8	24.0	738	8.5	104
24...	1319	80513	80020	10.0	90.0	20	6.7	24.0	738	8.6	106
24...	1321	80513	80020	11.0	90.0	20	6.6	23.0	738	8.4	101
24...	1323	80513	80020	12.0	90.0	20	6.4	20.0	738	8.3	95
24...	1325	80513	80020	15.0	90.0	20	6.2	19.5	738	7.9	88
24...	1327	80513	80020	17.0	90.0	20	6.0	18.5	738	7.5	82
24...	1329	80513	80020	18.0	90.0	20	5.9	17.5	738	6.9	75
24...	1331	80513	80020	20.0	90.0	20	5.8	17.0	738	6.9	73
24...	1333	80513	80020	22.0	90.0	20	5.8	16.0	738	6.9	72
24...	1335	80513	80020	23.0	90.0	20	5.8	14.5	738	6.9	70
24...	1337	80513	80020	24.0	90.0	20	5.9	13.0	738	7.2	71
24...	1339	80513	80020	26.0	90.0	20	5.9	12.0	738	7.4	71
24...	1341	80513	80020	28.0	90.0	20	5.9	11.0	738	7.5	71
24...	1343	80513	80020	30.0	90.0	20	5.9	10.5	738	7.7	71
24...	1345	80513	80020	34.0	90.0	20	5.9	9.5	738	8.0	72
24...	1347	80513	80020	38.0	90.0	20	6.0	9.0	738	8.2	73
24...	1349	80513	80020	40.0	90.0	20	5.9	8.5	738	8.3	74
24...	1351	80513	80020	50.0	90.0	20	6.1	8.0	738	8.7	75
24...	1353	80513	80020	60.0	90.0	20	6.0	7.5	738	8.7	75
24...	1355	80513	80020	70.0	90.0	20	6.0	7.0	738	8.6	73
24...	1357	80513	80020	72.0	90.0	20	6.0	7.0	738	8.6	73
24...	1359	80513	80020	80.0	90.0	20	6.1	7.0	738	8.3	71
24...	1401	80513	80020	90.0	90.0	20	6.1	7.0	738	8.1	69
24...	1405	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAY										
24.	1315	2.40	--	--	--	--	--	--	--	--
24.	1329	--	3.0	25	0	1	7	1.3	0.92	0.90
24.	1357	--	3.4	25	1	6	7	1.3	0.79	0.80

DATE	TIME	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY									
24.	1329	21	0.1	0.40	5	0.80	3.0	<0.10	13
24.	1357	20	0.1	0.50	4	0.80	3.0	0.10	21

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)
MAY									
24.	1317	--	21.0	0.300	--	--	--	--	--
24.	1329	0.02	--	--	<0.100	<0.100	--	0.010	--
24.	1357	0.03	--	--	<0.100	<0.100	--	0.030	--
24.	1405	--	--	--	--	--	<2.0	--	110

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAY									
24.	1329	0.19	0.20	0.020	<0.010	<0.010	--	3.8	<10
24.	1357	0.17	0.20	<0.010	<0.010	<0.010	--	3.6	<10
24.	1405	--	--	--	--	--	350	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
MAY										
24...	1329	<1	--	<100	--	<1	--	<1	--	100
24...	1357	<1	--	<100	--	<1	--	<1	--	170
24...	1405	--	6	--	150	--	<1	--	10	--

DATE	TIME	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
MAY										
24...	1329	--	<1	--	20	--	<1	<1	--	--
24...	1357	--	<1	--	40	--	<1	<1	--	--
24...	1405	22000	--	20	--	720	--	--	<1	60

DATE	TIME	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39399)	MALA-THION, TOTAL (UG/L) (39530)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39531)	PARA-THION, TOTAL (UG/L) (39540)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39541)	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39571)	METHYL PARA-THION, TOTAL (UG/L) (39600)
MAY										
24...	1329	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
24...	1357	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
24...	1405	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--

DATE	TIME	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39787)	METHYL TRI-THION, TOTAL (UG/L) (39790)
MAY										
24...	1329	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
24...	1357	--	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	--	<0.01
24...	1405	<0.1	--	--	--	--	--	--	<0.1	--

DATE	TIME	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39343)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39373)
MAY										
24...	1329	--	<0.01	--	--	--	--	--	--	--
24...	1357	--	<0.01	--	--	--	--	--	--	--
24...	1405	<0.1	--	<1.0	<0.1	<0.1	2.0	2.7	5.3	<0.1

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39383)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39393)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39403)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39758)
MAY										
24...	1405	0.1	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG											
29...	1140	80513	80020	0.0	85.0	23	6.3	30.5	745	7.6	103
29...	1142	80513	80020	2.00	85.0	23	6.5	29.5	745	7.5	101
29...	1144	80513	80020	5.00	85.0	23	6.5	29.5	745	7.4	100
29...	1146	80513	80020	10.0	85.0	23	6.5	29.0	745	7.3	97
29...	1148	80513	80020	13.0	85.0	24	6.2	28.0	745	6.3	83
29...	1150	80513	80020	14.0	85.0	24	5.9	26.5	745	5.9	75
29...	1152	80513	80020	15.0	85.0	24	5.7	25.5	745	4.5	56
29...	1154	80513	80020	16.0	85.0	24	5.6	24.0	745	2.9	35
29...	1156	80513	80020	17.0	85.0	24	5.4	22.5	745	1.5	17
29...	1158	80513	80020	18.0	85.0	23	5.3	21.0	745	0.7	8
29...	1200	80513	80020	19.0	85.0	24	5.4	20.5	745	0.6	7
29...	1202	80513	80020	20.0	85.0	24	5.4	19.5	745	0.5	6
29...	1204	80513	80020	21.0	85.0	24	5.4	18.0	745	0.5	6
29...	1206	80513	80020	22.0	85.0	24	5.4	17.0	745	0.9	10
29...	1208	80513	80020	23.0	85.0	23	5.4	16.0	745	1.4	14
29...	1210	80513	80020	24.0	85.0	22	5.5	15.5	745	1.7	18
29...	1212	80513	80020	25.0	85.0	22	5.5	14.5	745	2.4	24
29...	1214	80513	80020	26.0	85.0	22	5.6	13.5	745	3.0	29
29...	1216	80513	80020	28.0	85.0	21	5.7	12.5	745	3.8	36
29...	1218	80513	80020	30.0	85.0	21	5.7	11.5	745	3.9	37
29...	1220	80513	80020	32.0	85.0	21	5.7	10.5	745	4.7	43
29...	1222	80513	80020	37.0	85.0	22	5.8	10.0	745	5.3	48
29...	1224	80513	80020	40.0	85.0	22	5.8	9.5	745	5.5	49
29...	1226	80513	80020	50.0	85.0	22	5.8	8.5	745	6.2	54
29...	1228	80513	80020	60.0	85.0	21	5.8	8.0	745	6.0	52
29...	1230	80513	80020	61.0	85.0	22	5.9	8.0	745	5.9	51
29...	1232	80513	80020	70.0	85.0	23	6.0	7.5	745	5.5	47
29...	1234	80513	80020	80.0	85.0	24	5.9	7.5	745	4.8	41
29...	1236	80513	80020	85.0	85.0	24	6.0	7.5	745	4.6	40

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
AUG											
29...	1140	3.70	--	--	--	--	--	--	--	--	--
29...	1156	--	1.4	15	1	67	8	1.5	0.99	0.90	19
29...	1230	--	1.2	20	0	63	6	1.2	0.76	0.80	21

DATE	TIME	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
AUG											
29...	1142	--	--	--	--	--	--	--	--	0.800	<0.100
29...	1156	0.1	0.50	7	1.0	3.0	<0.10	28	0.04	--	--
29...	1230	0.1	0.40	5	1.0	3.0	<0.10	19	0.03	--	--

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
AUG										
29...	1156	<0.100	<0.100	<0.010	<0.20	<0.010	<0.010	<0.010	4.9	<10
29...	1230	0.110	0.100	<0.010	<0.20	<0.010	<0.010	<0.010	3.5	<10

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN											
30...	1230	80513	80020	0.0	90.0	22	6.6	7.0	740	11.9	101
30...	1232	80513	80020	2.00	90.0	22	6.6	7.0	740	11.8	100
30...	1234	80513	80020	10.0	90.0	22	6.6	6.5	740	11.6	97
30...	1236	80513	80020	18.0	90.0	22	6.6	6.5	740	11.6	97
30...	1238	80513	80020	20.0	90.0	22	6.6	6.5	740	11.5	96
30...	1240	80513	80020	30.0	90.0	22	6.6	6.5	740	11.4	95
30...	1242	80513	80020	40.0	90.0	22	6.6	6.5	740	11.4	95
30...	1244	80513	80020	50.0	90.0	21	6.6	6.5	740	11.4	95
30...	1246	80513	80020	60.0	90.0	21	6.6	6.5	740	11.4	95
30...	1248	80513	80020	70.0	90.0	22	6.6	6.5	740	11.3	95
30...	1250	80513	80020	72.0	90.0	21	6.6	6.5	740	11.3	95
30...	1252	80513	80020	80.0	90.0	21	6.6	6.5	740	11.3	95
30...	1254	80513	80020	90.0	90.0	21	6.7	6.5	740	11.3	95

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	COLOR (PLATINUM-COBALT UNITS) (00080)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
JAN											
30...	1230	2.00	--	--	--	--	--	--	--	--	--
30...	1236	--	2.2	25	6	26	7	1.5	0.88	0.90	20
30...	1250	--	3.3	27	6	25	7	1.5	0.86	0.90	20

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN											
30...	1232	--	--	--	--	--	--	--	--	1.00	0.200
30...	1236	0.1	0.50	6	1.0	3.0	0.10	33	0.05	--	--
30...	1250	0.1	0.50	6	1.0	3.0	0.10	33	0.05	--	--

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DISSOLVED (UG/L AS B) (01020)
JAN										
30...	1236	<0.100	<0.100	0.020	<0.20	<0.010	<0.010	0.010	3.7	<10
30...	1250	<0.100	<0.100	0.020	<0.20	<0.010	<0.010	<0.010	3.9	<10

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
JAN										
30...	1236	<1	<100	<1	<1	350	1	130	<1	<1
30...	1250	<1	<100	<1	<1	340	1	120	<1	<1

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
JAN									
30...	1236	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1250	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
JAN								
30...	1236	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30...	1250	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
APR											
03...	1200	80513	80020	0.0	90.0	19	6.5	14.0	747	10.5	104
03...	1202	80513	80020	2.00	90.0	19	6.5	14.0	747	10	99
03...	1204	80513	80020	10.0	90.0	19	6.5	14.0	747	9.7	96
03...	1206	80513	80020	15.0	90.0	19	6.5	13.0	747	9.5	92
03...	1208	80513	80020	18.0	90.0	20	6.4	12.5	747	9.3	89
03...	1210	80513	80020	20.0	90.0	20	6.4	12.5	747	9.3	89
03...	1212	80513	80020	25.0	90.0	20	6.2	11.5	747	9.1	85
03...	1214	80513	80020	30.0	90.0	19	6.3	11.0	747	9.0	83
03...	1216	80513	80020	35.0	90.0	20	6.3	10.0	747	8.9	81
03...	1218	80513	80020	40.0	90.0	20	6.3	9.5	747	9.2	83
03...	1220	80513	80020	50.0	90.0	20	6.3	9.5	747	9.3	83
03...	1222	80513	80020	60.0	90.0	20	6.3	9.0	747	9.0	80
03...	1224	80513	80020	70.0	90.0	20	6.3	9.0	747	9.0	79
03...	1226	80513	80020	72.0	90.0	21	6.3	8.5	747	8.7	77
03...	1228	80513	80020	80.0	90.0	20	6.2	8.5	747	8.6	76
03...	1230	80513	80020	90.0	90.0	20	6.3	8.5	747	8.1	71

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
APR											
03...	1200	2.00	--	--	--	--	--	--	--	--	--
03...	1208	--	5.8	35	1	3	7	1.5	0.77	0.90	21
03...	1226	--	3.0	18	0	0	7	1.5	0.81	0.90	20

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
APR											
03...	1202	--	--	--	--	--	--	--	--	1.00	0.200
03...	1208	0.1	0.50	4	1.5	2.9	<0.10	29	0.04	--	--
03...	1226	0.1	0.50	5	1.6	3.2	0.10	26	0.03	--	--

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
APR										
03...	1208	<0.100	<0.100	0.010	<0.20	<0.010	<0.010	<0.010	4.3	<10
03...	1226	<0.100	<0.100	0.030	<0.20	<0.010	<0.010	0.030	3.7	<10

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG											
29...	1030	80513	80020	0.0	90.0	22	6.3	29.5	743	7.1	96
29...	1031	80513	80020	1.00	90.0	22	6.3	29.5	743	7.0	94
29...	1032	80513	80020	2.00	90.0	22	6.3	29.5	743	6.9	93
29...	1033	80513	80020	5.00	90.0	22	6.3	29.5	743	6.8	91
29...	1035	80513	80020	10.0	90.0	21	6.3	29.0	743	6.8	91
29...	1036	80513	80020	11.0	90.0	22	6.1	29.0	743	6.8	91
29...	1037	80513	80020	12.0	90.0	22	5.9	28.0	743	6.1	80
29...	1038	80513	80020	13.0	90.0	21	5.7	25.5	743	5.7	72
29...	1040	80513	80020	14.0	90.0	21	5.5	23.5	743	4.8	58
29...	1041	80513	80020	15.0	90.0	21	5.5	23.0	743	4.0	48
29...	1042	80513	80020	16.0	90.0	21	5.4	21.5	743	2.7	31
29...	1044	80513	80020	17.0	90.0	21	5.3	19.5	743	1.9	21
29...	1046	80513	80020	18.0	90.0	22	5.4	17.5	743	1.2	13
29...	1048	80513	80020	19.0	90.0	21	5.5	16.5	743	1.3	14
29...	1050	80513	80020	20.0	90.0	22	5.7	15.5	743	1.4	14
29...	1052	80513	80020	21.0	90.0	22	5.7	15.0	743	1.6	16
29...	1054	80513	80020	22.0	90.0	22	5.8	14.5	743	2.0	20
29...	1056	80513	80020	25.0	90.0	22	5.9	13.5	743	2.7	27
29...	1057	80513	80020	30.0	90.0	22	5.9	12.5	743	3.4	33
29...	1058	80513	80020	35.0	90.0	22	5.9	11.5	743	3.7	35
29...	1100	80513	80020	45.0	90.0	22	6.0	10.5	743	4.3	40
29...	1101	80513	80020	55.0	90.0	23	6.0	10.0	743	3.7	34
29...	1103	80513	80020	66.0	82.0	24	6.0	9.5	743	2.8	25
29...	1104	80513	80020	75.0	90.0	25	6.1	9.5	743	1.7	15
29...	1105	80513	80020	82.0	90.0	29	6.2	9.0	743	0.2	2
29...	1110	80513	80020	--	--	--	--	--	--	--	--

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	TUR-BID-ITY (NTU) (00076)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
AUG									
29...	1030	4.10	--	--	--	--	--	--	--
29...	1035	--	1.0	8	0	27	7	1.5	0.87
29...	1103	--	3.0	27	0	3	8	1.5	0.96

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
AUG									
29...	1035	0.90	20	0.1	0.50	5	1.1	2.0	<0.10
29...	1103	0.90	19	0.1	0.50	5	1.4	2.4	<0.10

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
AUG									
29...	1032	--	--	0.800	0.100	--	--	--	--
29...	1035	8	0.01	--	--	<0.100	<0.100	--	0.010
29...	1103	13	0.02	--	--	0.200	<0.100	--	0.020
29...	1110	--	--	--	--	--	--	<2.0	--

DATE	TIME	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)
AUG									
29...	1035	--	<0.20	<0.010	<0.010	<0.010	--	3.9	20
29...	1103	--	<0.20	0.020	0.020	<0.010	--	3.6	<10
29...	1110	7.0	--	--	--	--	350	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA) (01008)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
AUG										
29...	1035	<1	--	<100	--	<1	--	<1	--	80
29...	1103	<1	--	<100	--	<1	--	<1	--	500
29...	1110	--	250	--	<10	--	<1	--	10	--

DATE	TIME	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG										
29...	1035	--	1	--	20	--	<1	<1	--	--
29...	1103	--	1	--	510	--	<1	<1	--	--
29...	1110	10000	--	10	--	560	--	--	<1	10

DATE	TIME	PHORATE TOTAL (UG/L) (39023)	DEF TOTAL (UG/L) (39040)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	PARA-THION, TOTAL (UG/L) (39540)	DI-AZINON, TOTAL (UG/L) (39570)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PICLO-RAM (TOR-DON) (AMDON) TOTAL (UG/L) (39720)
AUG									
29...	1035	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29...	1103	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07362590 LAKE WINONA AT REFORM, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	METHYL TRI-THION, TOTAL (UG/L) (39790)	DICAMBA (MED-IBEN) (BAN-VEL D) TOTAL (UG/L) (82052)
AUG								
29...	1035	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29...	1103	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

07363002 SALINE RIVER WEST OF BENTON, ARKANSAS

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 downstream from confluence of North Fork and Alum Fork, and at mile 197.7.

DRAINAGE AREA.--550 mi^2.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17...	1215	9827	9827	68	7.7	21.0	3.0	7.7	0.2
NOV									
14...	1315	9827	9827	125	7.8	17.0	2.7	8.9	0.7
JAN									
02...	1515	9827	9827	268	7.7	6.0	10	12.5	1.2
16...	1315	9827	9827	139	7.3	9.0	3.0	11.7	0.4
FEB									
13...	1335	9827	9827	848	7.1	13.0	6.3	10.2	0.6
MAR									
20...	1345	9827	9827	765	7.5	14.0	4.7	10.1	0.4
APR									
10...	1330	9827	9827	1470	7.5	16.0	7.4	9.5	0.8
MAY									
01...	1425	9827	9827	2090	7.6	19.0	40	8.4	0.8
JUN									
26...	1343	9827	9827	70	7.7	28.0	--	8.0	0.9
JUL									
24...	1338	9827	9827	65	7.6	29.0	--	7.9	1.0
AUG									
21...	1212	9827	9827	36	7.9	31.0	--	6.9	0.9
SEP									
18...	1345	9827	9827	32	7.7	27.0	--	8.0	1.1

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
17...	1215	66	7.0	3.8	--	2	<0.020	<0.050	0.37
NOV									
14...	1315	68	5.0	--	78	2	<0.020	<0.050	0.32
JAN									
02...	1515	70	--	4.7	--	11	0.110	0.080	0.43
16...	1315	64	7.0	4.6	77	2	0.050	<0.050	0.27
FEB									
13...	1335	44	5.0	--	53	5	0.110	<0.050	0.30
MAR									
20...	1345	44	4.0	2.9	42	4	0.120	<0.050	0.27
APR									
10...	1330	44	3.0	2.7	57	7	0.080	<0.050	0.46
MAY									
01...	1425	36	5.0	1.9	66	10	0.150	<0.050	0.37
JUN									
26...	1343	68	4.0	2.1	67	4	<0.020	<0.050	0.30
JUL									
24...	1338	80	4.0	3.3	66	4	0.020	<0.050	0.36
AUG									
21...	1212	66	5.0	3.4	76	6	0.020	0.070	0.31
SEP									
18...	1345	72	5.0	3.7	78	6	--	<0.050	0.33

07363002 SALINE RIVER WEST OF BENTON, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
17...	1215	<0.030	0.040	<1	<1	<15	<2	--	2.0
NOV									
14...	1315	0.030	<0.030	<1	<1	<15	<2	<10	--
JAN									
02...	1515	0.080	0.040	--	--	--	--	--	2.4
16...	1315	<0.030	<0.030	--	--	--	--	--	1.7
FEB									
13...	1335	0.030	<0.030	--	--	--	--	--	3.6
MAR									
20...	1345	<0.030	<0.030	--	--	--	--	--	2.2
APR									
10...	1330	0.040	<0.030	--	--	--	--	--	3.5
MAY									
01...	1425	0.110	<0.030	--	--	--	--	--	5.1
JUN									
26...	1343	<0.030	<0.030	--	--	--	--	--	3.0
JUL									
24...	1338	0.030	0.060	--	--	--	--	--	3.1
AUG									
21...	1212	<0.030	<0.030	--	--	--	--	--	1.8
SEP									
18...	1345	0.030	0.040	--	--	--	--	--	2.8

07363054 SALINE RIVER NEAR SHAW, ARKANSAS

LOCATION.--Lat 34°29'56", long 92°33'46", in NW ¼ NW ¼ sec.1, T.3 S., R.15 W., Saline County, Hydrologic Unit 08040203, at Shaw Bridge, 2.0 mi west of Shaw, and 2.0 mi east of Dotted Lake.

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
17...	1245	9827	9827	72	7.6	21.0	4.5	6.9	0.4
NOV									
14...	1400	9827	9827	134	7.7	18.0	4.6	8.7	0.8
JAN									
02...	1445	9827	9827	297	7.7	6.0	6.0	12.5	1.0
16...	1400	9827	9827	150	7.6	9.0	5.0	11.5	0.9
FEB									
13...	1435	9827	9827	928	7.2	14.0	7.8	10.1	0.8
MAR									
20...	1430	9827	9827	247	7.5	14.0	6.0	9.6	0.5
APR									
10...	1400	9827	9827	1540	7.6	16.0	8.4	9.1	1.0
MAY									
01...	1530	9827	9827	2360	7.5	18.0	15	8.2	0.3
JUN									
26...	1420	9827	9827	89	7.5	27.0	--	7.4	0.9
JUL									
24...	1423	9827	9827	81	7.4	29.0	--	5.8	0.9
AUG									
21...	1253	9827	9827	50	7.6	30.0	--	6.0	1.2
SEP									
18...	1420	9827	9827	48	7.6	27.0	--	6.8	0.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT									
17...	1245	68	51	6.3	--	5	0.260	0.090	0.37
NOV									
14...	1400	68	23	--	102	6	0.140	<0.050	0.38
JAN									
02...	1445	80	6.0	4.3	69	5	0.080	<0.050	0.46
16...	1400	64	46	5.5	127	7	0.140	<0.050	0.42
FEB									
13...	1435	42	11	--	68	13	0.150	<0.050	0.36
MAR									
20...	1430	44	46	3.9	101	8	0.180	<0.050	0.30
APR									
10...	1400	38	37	3.2	103	13	0.120	<0.050	0.46
MAY									
01...	1530	34	33	2.2	97	19	0.140	<0.050	0.28
JUN									
26...	1420	58	32	3.4	114	5	0.230	<0.050	0.35
JUL									
24...	1423	58	65	5.4	173	13	0.410	<0.030	0.45
AUG									
21...	1253	50	44	5.2	130	5	0.510	<0.050	0.32
SEP									
18...	1420	56	33	5.3	131	6	--	<0.050	0.40

07363054 SALINE RIVER NEAR SHAW, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
17...	1245	0.200	0.170	<1	<1	<15	<2	--	3.4
NOV									
14...	1400	0.150	0.100	<1	<1	<15	<2	<10	--
JAN									
02...	1445	<0.020	<0.020	--	--	--	--	--	2.7
16...	1400	<0.030	0.040	--	--	--	--	--	1.9
FEB									
13...	1435	0.050	<0.030	--	--	--	--	--	3.0
MAR									
20...	1430	0.050	<0.030	--	--	--	--	--	2.7
APR									
10...	1400	0.070	<0.030	--	--	--	--	--	3.7
MAY									
01...	1530	0.060	<0.030	--	--	--	--	--	4.0
JUN									
26...	1420	0.100	0.060	--	--	--	--	--	3.7
JUL									
24...	1423	0.180	0.160	--	--	--	--	--	6.8
AUG									
21...	1253	0.210	0.130	--	--	--	--	--	2.8
SEP									
18...	1420	0.230	0.210	--	--	--	--	--	3.5

07363200 SALINE RIVER NEAR SHERIDAN, ARKANSAS

LOCATION.--Lat 34°06'56", long 92°24'21", in NE ¼ NW ¼ 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 upstream from Gamble Creek, 1.6 mi downstream from Lost Creek, 2.1 mi upstream from Hurricane Creek, 13.5 mi south of Sheridan, and at mi 131.4.

DRAINAGE AREA.--1,123 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02.	1034	9827	9827	125	7.7	24.0	7.5	8.3	0.9
31.	1048	9827	9827	93	7.8	16.0	4.3	8.6	0.8
DEC									
05.	1045	9827	9827	126	7.7	8.0	3.9	11.2	0.4
JAN									
02.	1145	9827	9827	324	7.3	5.0	25	--	1.9
FEB									
06.	1015	9827	9827	10600	7.1	10.0	20	9.0	1.2
MAR									
06.	1414	9827	9827	5670	7.6	12.0	15	9.9	1.2
APR									
03.	1035	9827	9827	8490	7.1	15.0	20	7.3	0.3
MAY									
15.	1034	9827	9827	2020	7.5	21.0	25	7.8	1.2
JUN									
05.	1110	9827	9827	2600	7.3	24.0	--	6.5	1.1
JUL									
10.	1056	9827	9827	56	7.6	31.0	--	7.2	2.3
AUG									
07.	1030	9827	9827	147	7.7	26.0	--	6.8	3.1
SEP									
04.	1015	9827	9827	43	7.7	29.0	--	6.6	1.2

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
02.	1034	52	32	5.3	115	9	0.160	<0.050	0.090
31.	1048	62	--	6.2	113	4	<0.020	--	0.050
DEC									
05.	1045	56	29	5.2	104	3	<0.020	--	0.080
JAN									
02.	1145	36	27	5.3	68	29	0.180	<0.050	0.110
FEB									
06.	1015	18	12	<1.5	40	8	--	0.050	0.060
MAR									
06.	1414	32	26	4.0	110	13	0.100	<0.050	0.060
APR									
03.	1035	24	9.0	2.9	80	7	0.030	<0.050	0.050
MAY									
15.	1034	34	23	3.2	77	35	0.180	0.050	0.080
JUN									
05.	1110	24	14	2.8	75	23	0.160	<0.050	0.090
JUL									
10.	1056	50	27	4.3	91	6	0.020	<0.050	0.050
AUG									
07.	1030	38	27	13	90	13	--	--	0.060
SEP									
04.	1015	44	23	4.8	--	13	0.020	--	0.040

07363200 SALINE RIVER NEAR SHERIDAN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1034	0.040	<1	<1	<15	<2	<10	--
31.	1048	0.030	<1	<1	<15	<2	<10	3.3
DEC								
05.	1045	<0.030	<1	<1	--	<2	<10	3.5
JAN								
02.	1145	0.030	--	--	--	--	--	5.8
FEB								
06.	1015	--	--	--	--	--	--	8.5
MAR								
06.	1414	<0.030	--	--	--	--	--	5.7
APR								
03.	1035	--	--	--	--	--	--	9.5
MAY								
15.	1034	<0.030	--	--	--	--	--	5.1
JUN								
05.	1110	<0.030	--	--	--	--	--	16
JUL								
10.	1056	<0.030	--	--	--	--	--	4.2
AUG								
07.	1030	<0.030	--	--	--	--	--	4.8
SEP								
04.	1015	0.050	--	--	--	--	--	4.0

07363270 HURRICANE CREEK NEAR SARDIS, ARKANSAS

LOCATION.--Lat 34°30'40", long 92°24'54", in SW ¼ sec.28, T.2 S., R.13 W., Saline County, Hydrologic Unit 08040203, at crossing on county road, 200 ft downstream from Brushy Creek, 1.5 mi southwest of Sardis.

DRAINAGE AREA.--66.0 mi².

PERIOD OF RECORD.--April 1974 to September 1976, October 1977 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02.	0914	9827	9827	--	8.0	20.0	30	7.5	0.6
31.	0905	9827	9827	15	7.7	15.0	1.0	8.0	1.0
JAN									
02.	0940	9827	9827	22	8.1	4.0	25	--	1.8
FEB									
06.	0840	9827	9827	245	7.7	9.0	15	9.8	1.2
MAR									
06.	0835	9827	9827	40	7.4	10.0	10	9.4	1.2
APR									
03.	0845	9827	9827	120	7.5	14.0	15	8.5	0.4
MAY									
15.	0905	9827	9827	40	7.8	22.0	6.7	7.9	1.7
JUN									
05.	0945	9827	9827	50	7.8	21.0	--	7.5	0.8
JUL									
10.	0915	9827	9827	6.8	7.5	28.0	--	6.7	1.3
AUG									
07.	0836	9827	9827	12	7.9	24.0	--	7.8	0.6

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
02.	0914	150	260	10	856	4	0.210	<0.050	0.060
31.	0905	250	--	8.7	814	1	0.130	--	<0.030
JAN									
02.	0940	72	260	10	663	17	0.380	0.090	0.130
FEB									
06.	0840	66	160	4.7	391	14	--	0.150	0.090
MAR									
06.	0835	80	250	7.7	539	10	0.160	0.080	0.040
APR									
03.	0845	50	89	4.7	233	12	0.140	0.080	0.060
MAY									
15.	0905	72	200	6.6	404	9	0.170	0.080	0.050
JUN									
05.	0945	62	160	5.7	378	11	0.200	0.050	0.060
JUL									
10.	0915	160	370	7.3	598	2	0.140	0.290	<0.030
AUG									
07.	0836	140	370	22	705	6	--	--	0.040

07363270 HURRICANE CREEK NEAR SARDIS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	0914	<0.030	<1	<1	17	<2	<10	--
31.	0905	<0.030	<1	1	<15	<2	<10	3.3
JAN								
02.	0940	0.070	--	--	--	--	--	7.5
FEB								
06.	0840	--	--	--	--	--	--	5.4
MAR								
06.	0835	<0.030	--	--	--	--	--	8.5
APR								
03.	0845	--	--	--	--	--	--	7.3
MAY								
15.	0905	<0.030	--	--	--	--	--	8.3
JUN								
05.	0945	0.030	--	--	--	--	--	7.4
JUL								
10.	0915	<0.030	--	--	--	--	--	5.6
AUG								
07.	0836	0.030	--	--	--	--	--	8.0

07363300 HURRICANE CREEK NEAR SHERIDAN, ARKANSAS

LOCATION.--Lat 34°19'10", long 92°20'40", in NW ¼ NE ¼ 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 downstream from Simpson Creek, 3.5 mi east of Sheridan, and at mile 16.9.

DRAINAGE AREA.--204 mi².

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 U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1970: 1969.

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers.)

REMARKS.--Records good, except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--29 years, 241 ft³/s, 16.04 in/yr, 174,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s Dec. 27, 1987, gage height, 16.83 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1939, 18.55 ft June 27, 1960, from floodmarks, discharge, 52,300 ft³/s by contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 08	2000	*17,800	*16.74	May 21	0500	5,280	14.81

Minimum daily discharge, 1.0 cfs, Sept. 7-9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e45	e8.0	e25	156	439	193	1550	492	372	e30	22	e2.0
2	e55	e8.0	e25	115	573	363	1130	442	293	e25	24	e2.0
3	e55	e7.5	e25	97	1660	347	594	1390	293	e20	19	e1.5
4	e45	e7.5	e20	100	2890	262	304	2360	472	e15	16	e1.5
5	e40	e7.0	e20	136	1620	210	233	1600	309	e10	16	e1.5
6	e40	e7.0	e20	114	908	181	670	942	174	e8.0	20	e1.5
7	e35	e7.0	e20	99	512	257	1490	346	122	e6.0	21	e1.0
8	e30	e7.0	e20	93	309	8760	1330	209	101	e5.5	17	e1.0
9	e30	e7.0	e20	90	261	9440	918	166	e80	e4.5	14	e1.0
10	e25	e6.5	e20	86	510	3340	458	150	e65	e4.0	12	e2.0
11	e25	e6.0	e15	84	840	1420	534	139	e60	e3.5	12	e3.5
12	e20	e6.0	e15	81	783	997	531	135	e55	e3.5	12	e3.0
13	e20	e5.5	e15	81	502	586	331	196	e55	e3.0	13	e3.5
14	e20	e6.0	e15	81	308	377	413	196	e50	e2.5	14	e5.0
15	e15	e6.0	e15	82	257	507	1070	139	e50	e2.0	18	e4.5
16	e15	e6.0	e10	83	283	890	1170	120	e45	e2.0	20	e4.0
17	e15	e6.0	e10	84	279	808	728	110	e45	e2.0	16	e3.5
18	e15	e6.0	e10	212	215	437	479	103	e45	e1.5	14	e3.5
19	e10	e6.0	e10	384	200	281	524	101	e40	e1.5	13	e3.5
20	e10	e5.5	e9.5	526	195	227	396	1770	e40	e1.5	14	e4.0
21	e10	e5.5	e9.0	989	149	190	421	4480	e40	e1.5	14	e4.5
22	e10	e5.5	e8.5	1040	301	169	994	2800	e40	e1.5	e15	e30
23	e10	e10	e8.0	867	585	157	1170	1630	e45	e5.0	e10	e20
24	e9.5	e55	e8.0	511	456	145	838	907	e50	21	e10	e15
25	e9.5	e45	e7.5	273	277	136	394	333	e55	21	e9.0	e10
26	e9.0	e40	e7.0	207	191	136	266	199	e55	18	e7.5	e9.5
27	e8.5	e35	e7.0	174	161	157	225	188	e50	17	e6.0	e8.0
28	e8.5	e30	e6.5	173	168	236	360	426	e50	15	e4.5	e7.0
29	e8.0	e30	e6.5	442	---	779	953	634	e55	13	e3.5	e6.5
30	e8.0	e25	e6.5	762	---	1610	1040	504	e45	12	e3.0	e6.0
31	e8.5	---	e40	699	---	2180	---	318	---	15	e2.5	---
TOTAL	664.5	412.5	454.0	8921	15832	35778	21514	23525	3251	291.0	412.0	169.5
MEAN	21.4	13.7	14.6	288	565	1154	717	759	108	9.39	13.3	5.65
MAX	55	55	40	1040	2890	9440	1550	4480	472	30	24	30
MIN	8.0	5.5	6.5	81	149	136	225	101	40	1.5	2.5	1.0
AC-FT	1320	818	901	17690	31400	70970	42670	46660	6450	577	817	336
CFSM	.11	.07	.07	1.41	2.77	5.66	3.52	3.72	.53	.05	.07	.03
IN.	.12	.08	.08	1.63	2.89	6.52	3.92	4.29	.59	.05	.08	.03

CAL YR 1989 TOTAL 153937.0 MEAN 422 MAX 7520 MIN 5.5 AC-FT 305300 CFSM 2.07 IN. 28.07
WTR YR 1990 TOTAL 111224.5 MEAN 305 MAX 9440 MIN 1.0 AC-FT 220600 CFSM 1.49 IN. 20.28

e Estimated

07363337 BIG CREEK NEAR SHERIDAN, ARKANSAS

LOCATION.--Lat 34°17'22", long 92°22'12", in SE ¼ NW ¼ sec.14. T.5 S., R.13 W., Grant County, Hydrologic Unit 08040203, at bridge on county road 1.8 mi southeast of Sheridan.

PERIOD OF RECORD.--October 1986 to current year.

COOPERATION.--Records were furnished by Arkansas Department of PollutionControl and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
02.	1000	9827	9827	7.2	19.0	45	0.4	--	32
31.	1000	9827	9827	7.3	15.0	15	0.2	3.8	50
DEC									
05.	1000	9827	9827	7.4	7.0	15	8.6	4.4	52
JAN									
02.	1045	9827	9827	7.2	5.0	30	--	--	36
FEB									
06.	0940	9827	9827	7.1	7.0	20	9.0	2.6	16
MAR									
06.	0930	9827	9827	7.2	13.0	20	6.9	1.4	20
APR									
03.	0945	9827	9827	7.0	15.0	20	7.5	0.9	14
MAY									
15.	0950	9827	9827	7.5	21.0	30	5.1	3.3	14
JUN									
05.	1645	9827	9827	7.8	21.0	--	6.3	3.3	16
JUL									
10.	1011	9827	9827	7.3	26.0	--	0.7	5.1	50
AUG									
07.	0949	9827	9827	7.1	23.0	--	0	3.9	30
SEP									
04.	0918	9827	9827	7.1	25.0	--	0.3	3.2	34

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
02.	1000	6.0	14	150	40	<0.020	0.760	3.9	1.22
31.	1000	--	17	170	11	<0.020	--	1.6	0.630
DEC									
05.	1000	16	16	170	21	0.050	--	3.0	0.610
JAN									
02.	1045	16	11	97	22	0.670	0.060	1.4	0.340
FEB									
06.	0940	10	<1.5	47	12	--	0.110	1.2	0.160
MAR									
06.	0930	11	6.4	101	10	0.210	0.360	--	0.260
APR									
03.	0945	8.0	5.0	71	13	0.160	0.380	0.94	0.130
MAY									
15.	0950	8.0	6.2	71	24	0.180	0.200	1.5	0.240
JUN									
05.	1645	7.0	5.6	78	35	0.150	0.150	1.7	0.460
JUL									
10.	1011	12	8.6	99	22	0.030	1.00	3.2	0.630
AUG									
07.	0949	7.0	21	114	14	--	--	1.9	0.520
SEP									
04.	0918	7.0	12	--	14	<0.020	--	2.0	0.540

07363337 BIG CREEK NEAR SHERIDAN, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1000	0.410	<1	<1	<15	2	<10	--
31.	1000	0.320	<1	<1	<15	<2	<10	16
DEC								
05.	1000	0.180	<1	<1	--	<2	<10	16
JAN								
02.	1045	0.100	--	--	--	--	--	12
FEB								
06.	0940	--	--	--	--	--	--	7.3
MAR								
06.	0930	0.160	--	--	--	--	--	7.1
APR								
03.	0945	--	--	--	--	--	--	8.2
MAY								
15.	0950	0.120	--	--	--	--	--	12
JUN								
05.	1645	0.240	--	--	--	--	--	10
JUL								
10.	1011	0.130	--	--	--	--	--	15
AUG								
07.	0949	0.200	--	--	--	--	--	14
SEP								
04.	0918	0.130	--	--	--	--	--	14

07363465 BIG CREEK NEAR PANSY, ARKANSAS

LOCATION.--Lat 33°49'44", long 92°04'58", in NE ¼ sec.24, T.10 S., R.10 W., Cleveland County, Hydrologic Unit 08040204, at bridge on State Highway 35, 1.0 mi upstream from Saline River, and 5.0 mi west of Pansy.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--November 1983 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT									
02.	1410	9827	9827	6.6	23.0	15	3.1	0.9	18
31.	1235	9827	9827	6.8	17.0	15	2.1	1.9	30
DEC									
05.	1230	9827	9827	6.6	7.0	7.4	10.2	0.4	28
JAN									
02.	1400	9827	9827	6.3	6.0	35	--	2.9	24
FEB									
06.	1145	9827	9827	6.6	10.0	20	9.1	0.9	12
MAR									
06.	1145	9827	9827	7.9	12.0	15	9.8	1.1	28
APR									
03.	1205	9827	9827	6.5	16.0	20	7.2	0.7	14
MAY									
15.	1220	9827	9827	6.7	21.0	30	6.7	1.0	18
JUN									
05.	1305	9827	9827	6.8	22.0	--	5.5	1.3	16
JUL									
10.	1325	9827	9827	7.4	30.0	--	4.5	--	42
AUG									
07.	1337	9827	9827	7.1	26.0	--	0.9	3.6	34
SEP									
04.	1159	9827	9827	7.1	28.0	--	0.4	2.5	28

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT								
02.	1410	16	4.9	79	6	0.100	0.090	0.080
31.	1235	--	5.5	80	11	<0.020	--	0.060
DEC								
05.	1230	37	6.3	100	2	<0.020	--	0.050
JAN								
02.	1400	34	5.6	68	30	0.170	<0.050	0.080
FEB								
06.	1145	9.0	<1.5	43	8	--	<0.050	0.060
MAR								
06.	1145	39	5.4	105	11	0.070	<0.050	0.040
APR								
03.	1205	11	3.1	70	14	0.030	0.110	0.060
MAY								
15.	1220	19	4.1	67	34	0.080	0.070	0.080
JUN								
05.	1305	10	2.5	64	16	0.060	<0.050	0.080
JUL								
10.	1325	7.0	4.7	66	23	<0.020	<0.050	0.170
AUG								
07.	1337	5.0	13	80	30	--	--	0.110
SEP								
04.	1159	6.0	5.6	--	48	<0.020	--	0.180

07363465 BIG CREEK NEAR PANSY, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1410	0.030	<1	<1	17	2	<10	--
31.	1235	0.030	<1	<1	<15	<2	<10	9.4
DEC								
05.	1230	<0.030	<1	<1	--	<2	<10	5.8
JAN								
02.	1400	0.030	--	--	--	--	--	10
FEB								
06.	1145	--	--	--	--	--	--	11
MAR								
06.	1145	<0.030	--	--	--	--	--	5.1
APR								
03.	1205	--	--	--	--	--	--	10
MAY								
15.	1220	<0.030	--	--	--	--	--	10
JUN								
05.	1305	<0.030	--	--	--	--	--	16
JUL								
10.	1325	<0.030	--	--	--	--	--	14
AUG								
07.	1337	<0.030	--	--	--	--	--	14
SEP								
04.	1159	0.050	--	--	--	--	--	19

07363500 SALINE RIVER NEAR RYE, ARKANSAS

LOCATION.--Lat 33°42'03", long 92°01'33", in SW ¼ NW ¼ 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 southwest of Rye, 5.8 mi upstream from Hudgin Creek, and at mile 71.0.

DRAINAGE AREA.--2,102 mi².

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

REVISED RECORDS.--WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 97.06 ft above National Geodetic Vertical datum of 1929. Prior to May 30, 1939, nonrecording gage at present site and datum.

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

AVERAGE DISCHARGE.--53 years, 2,663 ft³/s, 17.21 in/yr, 1,929,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,500 ft³/s May 18, 1968, gage height, 31.40 ft; minimum, 3.5 ft³/s Sept. 27, 28, 1954, gage height, 3.84 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of 30.5 ft, discharge, about 73,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 05	0515	18,600	24.56	May 11	1215	11,600	22.56
Mar. 14	0200	*43,400	*28.16	May 27	1500	21,900	25.23
Apr. 07	0400	14,600	23.56				

Minimum discharge, 20 ft³/s Sept. 8, gage height, 4.61 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	119	240	736	8590	3470	9440	7130	9680	213	133	54
2	172	122	221	884	9940	3280	9760	7230	8360	230	120	50
3	172	124	200	898	13200	3060	9850	7230	7290	220	116	50
4	181	128	187	1280	17500	2850	10400	7280	7170	202	117	48
5	193	136	178	1850	18300	2830	11700	7370	7150	190	131	44
6	197	168	175	1840	18000	2890	13700	7530	7060	177	144	39
7	228	404	172	1590	17100	3210	14500	7630	6710	166	130	35
8	224	705	168	1270	17000	6500	13700	7840	5730	153	145	21
9	203	724	171	1140	16400	10300	12400	8690	4370	143	228	29
10	186	468	168	1020	16700	13000	11300	10300	2800	140	253	42
11	183	396	169	836	16000	14300	10200	11500	1560	140	225	40
12	187	407	172	692	14700	21600	9280	11400	1090	120	198	37
13	181	359	179	592	13200	39400	8850	11200	884	116	169	40
14	176	311	179	514	11900	41600	9030	10100	778	118	145	46
15	168	275	176	456	10800	33500	9410	8610	707	116	133	45
16	164	244	171	417	9890	23800	9240	6580	620	108	132	47
17	158	226	169	412	9200	17600	8800	4460	539	133	114	48
18	147	213	168	1420	8650	14100	8180	3150	479	130	129	60
19	139	207	206	2780	8030	11400	7430	2480	435	110	174	88
20	131	204	240	3410	7140	10000	6680	1980	395	113	177	95
21	126	197	251	3940	5900	8770	6070	2530	372	116	168	88
22	125	198	251	4330	4890	7710	5710	4000	363	108	153	79
23	125	203	251	4560	4480	6810	5610	4670	332	104	131	72
24	126	210	251	4590	4300	5900	5550	5400	302	105	115	87
25	127	239	229	4720	4110	4640	5290	7400	277	110	107	154
26	129	270	186	5060	3860	3080	4980	12900	258	117	99	197
27	125	297	167	5660	3670	2480	4790	21200	256	132	92	190
28	120	299	153	6320	3560	2540	5080	19900	245	183	85	179
29	115	274	150	7420	---	3910	5930	16200	233	186	79	152
30	114	262	170	8270	---	6400	6670	13100	223	165	71	125
31	117	---	302	8520	---	8610	---	11100	---	150	62	---
TOTAL	4918	8389	6070	87427	297010	339540	259530	268090	76668	4514	4275	2281
MEAN	159	280	196	2820	10610	10950	8651	8648	2556	146	138	76.0
MAX	228	724	302	8520	18300	41600	14500	21200	9680	230	253	197
MIN	114	119	150	412	3560	2480	4790	1980	223	104	62	21
AC-FT	9750	16640	12040	173400	589100	673500	514800	531800	152100	8950	8480	4520
CFSM	.08	.13	.09	1.34	5.05	5.21	4.12	4.11	1.22	.07	.07	.04
IN.	.09	.15	.11	1.55	5.26	6.01	4.59	4.74	1.36	.08	.08	.04

CAL YR 1989 TOTAL 1522790 MEAN 4172 MAX 34400 MIN 114 AC-FT 3020000 CFSM 1.98 IN. 26.95
WTR YR 1990 TOTAL 1358712 MEAN 3722 MAX 41600 MIN 21 AC-FT 2695000 CFSM 1.77 IN. 24.05

07364012 SALINE RIVER NEAR FOUNTAIN HILL, ARKANSAS

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 west of Fountain Hill.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20.	1200	9827	9827	170	7.4	24.0	7.5	7.6	0.8
31.	1030	9827	9827	152	7.6	16.0	6.2	8.8	1.1
DEC									
05.	1036	9827	9827	231	6.8	10.0	4.4	9.5	1.0
JAN									
02.	1040	9827	9827	1150	7.0	7.0	25	10.3	2.4
FEB									
06.	1145	9827	9827	23400	7.0	12.0	--	7.5	1.1
MAR									
06.	1030	9827	9827	3760	7.2	11.0	20	9.4	1.0
APR									
03.	1000	9827	9827	12800	6.8	16.0	20	7.1	1.2
MAY									
01.	1015	9827	9827	9270	6.9	22.0	8.1	5.4	0.7
JUN									
05.	1030	9827	9827	9300	7.1	--	--	5.0	1.1
JUL									
10.	1000	9827	9827	182	7.4	30.0	--	8.8	2.4
AUG									
07.	1040	9827	9827	169	7.5	28.0	--	--	1.8
SEP									
04.	1045	9827	9827	62	7.6	30.0	--	7.1	0.8

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
20.	1200	46	35	5.5	122	14	0.230	<0.050	0.120
31.	1030	54	--	8.6	127	9	<0.020	0.050	0.050
DEC									
05.	1036	44	33	--	--	5	0.270	0.150	0.090
JAN									
02.	1040	--	60	6.1	134	32	0.140	<0.050	0.110
FEB									
06.	1145	14	8.0	3.2	52	15	--	<0.050	0.090
MAR									
06.	1030	26	33	5.3	--	--	0.110	--	0.120
APR									
03.	1000	16	10	3.2	71	10	0.060	0.080	0.040
MAY									
01.	1015	24	16	3.2	78	15	0.090	0.060	0.100
JUN									
05.	1030	20	13	3.1	68	9	0.170	<0.050	0.090
JUL									
10.	1000	34	38	4.3	81	9	0.050	<0.050	0.070
AUG									
07.	1040	38	32	15	--	5	0.070	--	--
SEP									
04.	1045	46	50	7.0	128	4	<0.020	<0.050	0.030

07364012 SALINE RIVER NEAR FOUNTAIN HILL, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
20.	1200	0.040	<1	<1	<15	--	30	4.4
31.	1030	<0.030	<1	<1	<15	<2	--	--
DEC								
05.	1036	<0.030	<1	<1	27	2	--	4.0
JAN								
02.	1040	<0.030	--	--	--	--	--	7.0
FEB								
06.	1145	--	--	--	--	--	--	9.3
MAR								
06.	1030	--	--	--	--	--	--	6.7
APR								
03.	1000	0.050	--	--	--	--	--	12
MAY								
01.	1015	0.030	--	--	--	--	--	12
JUN								
05.	1030	0.030	--	--	--	--	--	--
JUL								
10.	1000	0.030	--	--	--	--	--	5.3
AUG								
07.	1040	<0.030	--	--	--	--	--	4.2
SEP								
04.	1045	0.040	--	--	--	--	--	3.9

07364115 BAYOU BARTHOLOMEW NEAR LADD, ARKANSAS

LOCATION.--Lat 34°06'24", long 91°54'06", in NW $ sec.22, T.7 S., R.8 W., Jefferson County, Hydrologic Unit 08040205, at bridge on county road 2.2 mi south of Ladd.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
02.	1510	9827	9827	24	7.1	23.0	20	5.8	1.8
31.	1324	9827	9827	0.0	7.2	18.0	30	4.7	2.3
DEC									
05.	1320	9827	9827	--	7.5	10.0	8.2	9.5	2.7
JAN									
02.	1500	9827	9827	--	7.5	--	15	--	3.0
FEB									
06.	1245	9827	9827	--	7.3	11.0	50	6.8	1.5
MAR									
06.	1245	9827	9827	19	7.9	15.0	35	8.4	1.3
APR									
03.	1300	9827	9827	580	7.1	18.0	35	6.0	1.0
MAY									
15.	1310	9827	9827	76	7.5	25.0	35	5.5	2.1
JUN									
05.	1400	9827	9827	360	7.6	24.0	--	4.4	2.2
JUL									
10.	1428	9827	9827	0.0	7.5	32.0	--	6.5	3.8
AUG									
07.	1432	9827	9827	--	7.6	28.0	--	9.2	3.1
SEP									
04.	1253	9827	9827	0.0	7.6	31.0	--	6.5	2.7

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
02.	1510	28	--	4.3	73	25	0.090	<0.500	0.240
31.	1324	38	--	7.1	88	18	<0.020	--	0.150
DEC									
05.	1320	52	14	8.6	99	9	<0.020	--	0.190
JAN									
02.	1500	22	7.0	6.8	58	9	0.150	0.060	0.130
FEB									
06.	1245	10	12	<1.5	45	21	--	<0.050	0.160
MAR									
06.	1245	18	15	5.1	96	24	0.210	0.070	0.140
APR									
03.	1300	18	8.0	3.5	62	18	0.070	0.110	0.130
MAY									
15.	1310	30	12	9.3	83	36	0.290	0.080	0.220
JUN									
05.	1400	18	10	4.1	94	55	0.250	0.130	0.330
JUL									
10.	1428	54	9.0	8.8	78	23	0.030	<0.050	0.330
AUG									
07.	1432	84	16	24	136	44	--	--	0.150
SEP									
04.	1253	64	5.0	14	--	22	<0.020	--	0.120

07364115 BAYOU BARTHOLOMEW NEAR LADD, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
02.	1510	0.130	<1	<1	17	4	<10	--
31.	1324	0.090	<1	1	<15	<2	<10	8.5
DEC								
05.	1320	0.080	<1	<1	--	2	<10	9.6
JAN								
02.	1500	0.060	--	--	--	--	--	8.5
FEB								
06.	1245	--	--	--	--	--	--	10
MAR								
06.	1245	0.090	--	--	--	--	--	8.7
APR								
03.	1300	--	--	--	--	--	--	13
MAY								
15.	1310	0.100	--	--	--	--	--	11
JUN								
05.	1400	0.190	--	--	--	--	--	12
JUL								
10.	1428	0.130	--	--	--	--	--	13
AUG								
07.	1432	<0.030	--	--	--	--	--	8.7
SEP								
04.	1253	0.060	--	--	--	--	--	8.8

07364133 BAYOU BARTHOLOMEW AT GARRETT BRIDGE, ARKANSAS

LOCATION.--Lat 33°51'59", long 91°39'22", in SE ¼ SW ¼ sec.6, T.10 S., R.5 W., Lincoln County, Hydrologic Unit 08040205, on downstream side of bridge on State Highway 54, 1.9 mi upstream from Flat Creek at Garrett Bridge.

DRAINAGE AREA.--380 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,650 ft³/s Feb. 10, 11, 1990, gage height, 22.22 ft; minimum, 0.60 ft³/s June 20, 1988, gage height, 1.31 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,650 ft³/s Feb. 10, 11, gage height, 22.22 ft; minimum, 1.1 ft³/s Nov. 5-6, gage height, 2.56 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	1.9	70	414	1690	622	1930	1280	949	e40	31	40
2	23	1.6	70	543	2220	627	2200	1210	926	e30	27	41
3	25	1.4	113	596	3320	546	2240	1190	916	e30	28	46
4	25	1.3	178	747	4180	625	2140	1230	1100	e30	45	46
5	25	1.2	211	886	4320	571	2010	1220	1310	e30	58	42
6	21	25	224	974	4380	507	2100	1170	1420	e20	60	38
7	19	159	228	976	4430	499	2380	1100	1460	e20	62	36
8	17	474	228	925	4450	1120	2480	1030	1350	e20	59	36
9	16	827	224	861	4450	2230	2430	959	1220	e20	53	44
10	16	997	220	795	4610	2740	2250	895	1110	e20	48	50
11	15	1000	213	732	4610	3070	2040	829	1020	e20	44	55
12	13	943	208	672	4470	3260	1840	833	926	e20	44	57
13	11	860	201	613	4270	3350	1650	1020	824	e30	49	71
14	9.4	774	195	550	4000	3340	1530	1090	715	e40	51	120
15	8.0	680	186	487	3670	3410	1500	1050	601	e50	44	164
16	8.3	576	180	422	3320	3420	1480	969	480	e60	43	166
17	8.2	471	173	365	2940	3250	1410	885	360	48	48	129
18	6.5	366	165	503	2550	2990	1300	798	258	30	50	92
19	5.8	251	160	719	2170	2680	1170	713	175	21	57	74
20	5.4	172	156	946	1820	2350	1070	652	114	17	63	69
21	4.9	121	150	1120	1520	2030	978	673	e100	15	64	57
22	4.6	95	148	1160	1330	1720	944	838	e90	15	62	116
23	4.2	89	147	1120	1190	1460	1060	945	e80	20	54	192
24	3.8	87	147	1050	1060	1240	1310	966	e70	24	47	193
25	3.5	94	138	988	936	1070	1420	900	e60	28	46	181
26	3.2	89	120	929	822	936	1390	830	e60	37	46	139
27	2.9	79	113	875	720	834	1300	807	e50	49	48	141
28	2.7	73	108	839	649	761	1220	828	e50	59	50	159
29	2.5	71	105	1100	---	836	1220	856	e40	54	48	166
30	2.3	71	120	1430	---	1150	1300	865	e40	45	45	163
31	2.0	---	266	1610	---	1600	---	898	---	36	42	---
TOTAL	336.2	9451.4	5165	25947	80097	54844	49292	29529	17874	978	1516	2923
MEAN	10.8	315	167	837	2861	1769	1643	953	596	31.5	48.9	97.4
MAX	25	1000	266	1610	4610	3420	2480	1280	1460	60	64	193
MIN	2.0	1.2	70	365	649	499	944	652	40	15	27	36
AC-FT	667	18750	10240	51470	158900	108800	97770	58570	35450	1940	3010	5800
CFSM	.03	.83	.44	2.20	7.53	4.66	4.32	2.51	1.57	.08	.13	.26
IN.	.03	.93	.51	2.54	7.84	5.37	4.83	2.89	1.75	.10	.15	.29

CAL YR 1989 TOTAL 342690.6 MEAN 939 MAX 3800 MIN 1.2 AC-FT 679700 CFSM 2.47 IN. 33.55
WTR YR 1990 TOTAL 277952.6 MEAN 762 MAX 4610 MIN 1.2 AC-FT 551300 CFSM 2.00 IN. 27.21

e Estimated

07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE, ARKANSAS

LOCATION.--Lat 33°37'40", long 91°26'45", in NE ¼ SW ¼ 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 west of McGehee, 17.5 mi downstream from Ables Creek, at mile 200.5.

DRAINAGE AREA.--576 mi².

PERIOD OF RECORD.--October 1938 to September 1942, October 1945 to current year. Gage-height records collected and occasional discharge measurements made by U.S. Army 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 U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 120.48 ft above National Geodetic Vertical Datum of 1929, 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 higher. Since Jan. 20, 1971, auxiliary water-stage recorder 14 mi upstream.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--49 years (1939-42, 1946-90), 699 ft³/s, 16.48 in/yr, 506,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,870 ft³/s May 11, 1958, gage height, 25.49 ft, present datum; minimum, 0.20 ft³/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, present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,740 ft³/s Feb. 11; maximum gage height, 24.35 ft Feb. 12; minimum discharge, 10 ft³/s Nov. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	12	80	323	1890	e2100	2050	1440	1110	77	64	28
2	49	11	72	426	2280	e1800	2160	1400	1140	63	112	27
3	46	11	65	479	3110	e1600	2310	1370	1320	50	123	26
4	44	11	59	620	4440	e1500	2450	1330	1520	41	109	26
5	42	10	55	745	5460	e1300	2570	1300	1580	34	89	26
6	39	15	52	863	6040	e1200	2890	1270	1580	27	73	26
7	37	37	51	970	6300	e1100	3060	1250	1580	22	59	25
8	36	73	60	1070	6380	e1300	3130	1220	1570	19	49	23
9	39	91	89	1140	6420	e1800	3190	1180	1550	16	44	22
10	43	114	122	1160	6680	e2300	3240	1140	1510	14	42	22
11	45	189	147	1140	6730	e2700	3240	1090	1440	13	43	23
12	45	324	162	1090	6720	e3000	3170	1060	1360	14	43	25
13	42	552	171	1020	6670	e3300	3060	1080	e1300	15	47	32
14	37	710	174	947	6560	e3600	2930	1120	e1200	15	44	35
15	32	818	173	875	e6400	e4200	2780	1180	e1100	14	38	36
16	29	873	171	806	e6300	e4600	2610	1250	e1000	17	33	39
17	27	878	167	757	e6200	e4800	2450	1280	e920	22	31	45
18	25	852	164	836	e6000	e4800	2290	1260	e820	26	30	58
19	23	799	160	949	e5700	e4800	2110	1200	e720	29	29	82
20	22	730	157	1250	e5400	e4700	1920	1130	e620	33	28	104
21	21	646	152	1510	e5100	e4600	1750	1130	e520	39	26	116
22	20	558	151	1630	e4800	e4400	1650	1180	e410	42	25	117
23	20	470	151	1690	e4500	e4200	1630	1210	320	43	25	111
24	19	385	151	1720	e4100	e3900	1550	1240	243	40	29	100
25	18	316	150	1690	e3700	e3600	1500	1250	186	35	35	91
26	17	243	137	1630	e3200	e3200	1460	1220	143	30	41	86
27	16	187	124	1550	e2900	e2900	1460	1160	115	26	42	103
28	15	143	120	1450	e2400	2130	1470	1100	101	26	39	134
29	14	112	116	1600	---	2000	1470	1020	94	29	33	151
30	13	92	127	1710	---	2010	1460	966	87	30	28	154
31	12	---	215	1790	---	2010	---	1070	---	31	27	---
TOTAL	941	10262	3945	35436	142380	91450	69010	37096	27159	932	1480	1893
MEAN	30.4	342	127	1143	5085	2950	2300	1197	905	30.1	47.7	63.1
MAX	54	878	215	1790	6730	4800	3240	1440	1580	77	123	154
MIN	12	10	51	323	1890	1100	1460	966	87	13	25	22
AC-FT	1870	20350	7820	70290	282400	181400	136900	73580	53870	1850	2940	3750
CFSM	.05	.59	.22	1.98	8.83	5.12	3.99	2.08	1.57	.05	.08	.11
IN.	.06	.66	.25	2.29	9.20	5.91	4.46	2.40	1.75	.06	.10	.12

CAL YR 1989 TOTAL 469087 MEAN 1285 MAX 4540 MIN 10 AC-FT 930400 CFSM 2.23 IN. 30.30
WTR YR 1990 TOTAL 421984 MEAN 1156 MAX 6730 MIN 10 AC-FT 837000 CFSM 2.01 IN. 27.25

e Estimated

07364600 BAYOU DE LOUTRE NEAR EL DORADO, ARKANSAS

LOCATION.--Lat 33°05'55", long 92°35'32", in SE ¼ NW ¼ sec.6, T.19 S., R.14 W., Union County, Hydrologic Unit 08040202, at bridge on county road, 0.8 mi downstream from Highbank Creek, and 8.5 mi southeast of El Dorado.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20.	0830	9827	9827	--	7.4	20.0	15	4.9	1.3
31.	0800	9827	9827	--	7.4	15.0	8.4	5.5	1.6
DEC									
05.	0800	9827	9827	--	6.8	1.0	4.6	9.4	1.5
JAN									
02.	0830	9827	9827	90	6.3	6.0	7.0	7.7	1.4
FEB									
06.	0840	9827	9827	340	7.0	9.0	--	6.4	0.6
MAR									
06.	0830	9827	9827	28	7.0	14.0	15	5.3	0.5
APR									
03.	0815	9827	9827	120	6.8	14.0	25	4.0	1.9
MAY									
01.	0830	9827	9827	14	6.9	24.0	25	2.3	2.5
JUN									
05.	0830	9827	9827	840	7.1	22.0	--	4.8	1.8
JUL									
10.	0800	9827	9827	8.0	7.5	29.0	--	3.0	2.3
AUG									
07.	0830	9827	9827	16	7.2	24.0	--	--	3.2
SEP									
04.	0845	9827	9827	3.4	7.9	28.0	--	4.1	1.4

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
20.	0830	150	98	420	1030	28	0.570	0.200	0.180
31.	0800	86	--	200	653	13	0.330	<0.050	0.110
DEC									
05.	0800	130	96	--	--	11	0.850	0.170	0.150
JAN									
02.	0830	--	29	150	353	9	0.280	0.060	0.130
FEB									
06.	0840	34	12	56	160	19	--	0.110	0.140
MAR									
06.	0830	76	34	160	--	--	0.150	--	0.180
APR									
03.	0815	42	12	81	238	18	0.130	0.120	0.220
MAY									
01.	0830	94	27	210	520	31	0.330	0.220	0.260
JUN									
05.	0830	26	12	43	149	25	0.140	0.060	0.180
JUL									
10.	0800	160	220	460	1170	62	2.50	0.250	0.280
AUG									
07.	0830	140	120	320	--	28	1.20	--	--
SEP									
04.	0845	140	170	380	1060	39	0.750	0.090	0.130

07364600 BAYOU DE LOUTRE NEAR EL DORADO, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
20.	0830	0.050	<1	<1	17	--	40	9.6
31.	0800	0.040	<1	2	<15	<2	--	--
DEC								
05.	0800	<0.030	<1	3	34	5	--	10
JAN								
02.	0830	0.030	--	--	--	--	--	10
FEB								
06.	0840	--	--	--	--	--	--	12
MAR								
06.	0830	--	--	--	--	--	--	13
APR								
03.	0815	0.140	--	--	--	--	--	18
MAY								
01.	0830	0.120	--	--	--	--	--	18
JUN								
05.	0830	0.110	--	--	--	--	--	--
JUL								
10.	0800	0.080	--	--	--	--	--	17
AUG								
07.	0830	0.090	--	--	--	--	--	13
SEP								
04.	0845	0.150	--	--	--	--	--	12

07365800 CORNIE BAYOU NEAR THREE CREEKS, ARKANSAS

LOCATION.--Lat 33°02'21", long 92°56'15", in SW ¼ NW ¼ 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 downstream from Pidgeon Creek, and 6.0 mi southwest of town of Three Creeks.

DRAINAGE AREA.--180 mi².

PERIOD OF RECORD.--May 1950 to September 1962, October 1970 to April 1974, October 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1950 to September 1955, February 1956 to July 1962.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
20.	1040	9827	9827	0.0	6.7	19.0	10	3.9	0.7
31.	1030	9827	9827	13	6.8	15.0	7.8	4.5	1.0
DEC									
05.	1030	9827	9827	17	6.3	7.0	4.8	7.4	1.0
JAN									
02.	1100	9827	9827	33	7.2	6.0	10	10.5	1.5
FEB									
20.	1140	9827	9827	--	6.8	11.0	15	8.3	0.5
MAR									
20.	1100	9827	9827	--	6.1	13.0	15	5.3	1.0
APR									
17.	1030	9827	9827	225	6.2	19.0	8.0	4.7	1.8
MAY									
15.	1115	9827	9827	--	6.3	22.0	20	5.9	1.4
JUN									
19.	1030	9827	9827	2.0	5.4	29.0	--	4.2	0.5
JUL									
24.	1100	9827	9827	--	7.0	25.0	--	1.4	1.8
AUG									
21.	1045	9827	9827	--	6.9	26.0	--	3.5	2.0
SEP									
25.	1045	9827	9827	--	7.1	19.0	--	1.2	1.3

DATE	TIME	HARDNESS TOTAL (MG/L AS CACO3) (00900)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT									
20.	1040	34	5.0	36	129	10	0.070	<0.050	0.100
31.	1030	28	9.0	26	107	6	<0.020	<0.050	0.060
DEC									
05.	1030	--	8.0	67	179	4	<0.020	0.120	0.070
JAN									
02.	1100	24	8.0	30	--	9	0.080	<0.050	0.070
FEB									
20.	1140	52	14	--	163	14	0.020	<0.050	0.080
MAR									
20.	1100	34	9.0	48	141	17	0.030	<0.050	0.070
APR									
17.	1030	42	6.0	51	139	15	<0.020	0.050	0.140
MAY									
15.	1115	22	7.0	34	110	15	0.020	<0.050	0.080
JUN									
19.	1030	190	3.0	320	715	--	0.360	0.370	0.080
JUL									
24.	1100	--	4.0	61	190	15	0.040	0.080	0.120
AUG									
21.	1045	4	5.0	47	138	24	<0.020	--	0.090
SEP									
25.	1045	36	4.0	25	118	--	<0.020	0.090	0.150

07365800 CORNIE BAYOU NEAR THREE CREEKS, ARKANSAS--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
20.	1040	0.030	--	--	<15	3	20	8.3
31.	1030	<0.030	<1	<1	<15	<2	10	7.5
DEC								
05.	1030	0.030	<1	<1	<15	<2	40	7.0
JAN								
02.	1100	0.040	--	--	--	--	--	6.7
FEB								
20.	1140	<0.030	--	--	--	--	--	--
MAR								
20.	1100	<0.030	--	--	--	--	--	13
APR								
17.	1030	0.030	--	--	--	--	--	13
MAY								
15.	1115	<0.030	--	--	--	--	--	14
JUN								
19.	1030	<0.030	--	--	--	--	--	5.9
JUL								
24.	1100	0.050	--	--	--	--	--	12
AUG								
21.	1045	--	--	--	--	--	--	11
SEP								
25.	1045	<0.030	--	--	--	--	--	11

07369680 BAYOU MACON AT EUDORA, ARKANSAS

LOCATION.--Lat 33°06'09", long 91°15'08", in SE ¼ SE ¼ sec.25, T.18 S., R.2 W., Chicot County, Hydrologic Unit 08030100, near left bank on downstream side of bridge on U.S. Highway 65, 0.6 mi south of Eudora.

DRAINAGE AREA.--500 mi².

PERIOD OF RECORD.--October 1988 to current year. Gage-height record and results of discharge measurements since January 1938, are contained in reports of the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 80.92 ft above National Geodetic Vertical Datum of 1929. Satellite telemeter at station.

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

COOPERATION.--Gage-height record provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s Jan. 20, 1990, gage height, 17.00 ft; maximum gage height, 19.85 ft July 2, 1988 (from backwater); minimum discharge, 53 ft³/s Oct. 15-18, 1989, Sept. 30, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1938, 27.43 ft May 10, 22, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,890 ft³/s Jan. 20, gage height, 17.00 ft; minimum discharge, 53 ft³/s Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	73	75	1490	404	110	637	99	157	73	166	118
2	76	75	75	789	1510	642	760	107	146	81	166	108
3	75	76	75	396	1870	572	427	95	314	83	144	105
4	73	77	74	428	2040	338	298	90	647	75	118	100
5	73	77	74	454	1590	233	223	98	330	71	106	93
6	73	106	74	814	1110	174	258	100	219	82	96	94
7	76	329	75	699	721	147	376	96	159	86	91	93
8	73	257	76	678	819	1160	269	86	133	81	97	94
9	71	185	85	399	1300	2440	208	86	116	83	98	104
10	70	156	81	253	2290	1840	207	85	115	76	87	134
11	70	137	78	183	1920	1110	216	89	104	78	86	126
12	70	120	75	143	1190	660	171	268	103	91	77	128
13	70	109	78	119	731	479	142	928	97	115	73	134
14	69	103	79	103	565	378	355	622	88	128	86	133
15	70	99	77	94	495	1650	544	414	85	124	108	118
16	72	95	75	89	653	1740	300	311	85	117	118	108
17	81	89	75	142	454	1100	205	255	87	97	111	101
18	69	82	76	1070	363	679	171	213	94	100	114	96
19	68	77	77	1380	335	509	140	194	92	99	98	95
20	70	74	76	2400	302	397	117	218	89	92	103	99
21	70	73	75	2660	151	311	104	505	87	89	100	98
22	71	100	104	1820	1260	246	98	596	88	94	113	77
23	71	136	127	1020	955	209	94	311	96	107	125	68
24	70	110	127	1080	437	186	87	235	111	121	133	67
25	70	93	101	1190	269	162	83	199	97	114	119	67
26	71	86	71	812	193	144	80	179	85	114	116	64
27	71	83	69	605	149	138	79	173	84	105	112	62
28	71	80	70	514	124	140	85	170	81	100	106	61
29	71	76	79	692	---	198	85	168	78	108	119	59
30	72	76	317	563	---	711	80	159	76	103	115	55
31	73	---	1650	437	---	587	---	159	---	111	117	---
TOTAL	2227	3309	4320	23516	24200	19390	6899	7308	4143	2998	3418	2859
MEAN	71.8	110	139	759	864	625	230	236	138	96.7	110	95.3
MAX	81	329	1650	2660	2290	2440	760	928	647	128	166	134
MIN	68	73	69	89	124	110	79	85	76	71	73	55
AC-FT	4420	6560	8570	46640	48000	38460	13680	14500	8220	5950	6780	5670

CAL YR 1989 TOTAL 103472 MEAN 283 MAX 2680 MIN 63 AC-FT 205200
WTR YR 1990 TOTAL 104587 MEAN 287 MAX 2660 MIN 55 AC-FT 207400

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

Crest-Stage Partial-Record Stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation 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 number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft^3/s)
		ST. FRANCIS RIVER BASIN					
07047820	Murray Creek near Jonesboro, Ark.	Lat 35°51'50", long 90°38'30", in SW ¼ SW ¼ sec.2, T.14 N., R.4 E., Craighead County, at culvert on U.S. Highway 49, 4.0 mi northeast of Jonesboro.	1.38	1960-90	--	<8.36	<267
07047880	Pope Creek tributary at Birdeye, Ark.	Lat 35°22'35", long 90°42'00", in NE ¼ SE ¼ sec.30,T.9 N., R.4 E., Cross County, at culvert on State Highway 42, 0.9 mi west of Birdeye.	.08	1963-90	05-19-90	4.08	47
070479475	Spring Creek at Forrest City, Ark.	Lat 35°00'56", long 90°47'34", in SE ¼ NW ¼ sec.28, T.5 N., R.3 E., St. Francis County, on Cherry Street in Forrest City	.54	1990	05-20-90	16.33	(a)
		WHITE RIVER BASIN					
07048900	Whitener Branch tributary near Spring Valley, Ark.	Lat 36°10'24", long 93°54'59", in SE ¼ NW ¼ sec.1, T.17 N., R.28 W., Washington County, at culvert on State Highway 68, 1.0 mi east of Spring Valley.	1.07	1960-90	02-15-90	6.38	157
07049000	War Eagle Creek near Hindsville, Ark.	Lat 36°12'02", long 93°51'16", in SE ¼ NE ¼ sec.28, T.18 N., R.27 W., Madison County, on left bank about 800 ft above bridge on State Highway 45, 3.9 mi north of Hindsville.	263	1953-70† 1971-77 1985-90	05-03-90	25.33	33,600
07050285	Osage Creek at Osage, Ark.	Lat 36°11'19", long 93°24'51", in NW ¼ SE ¼ sec.27, T.18 N., R.23 W., Carroll County, at brige on State Highway 68, 0.7 mi northwest of Osage.	82.3	1989-90	05-03-90	14.91	(a)
07050500	Kings River near Berryville, Ark.	Lat 36°25'36", long 93°37'15", in SE ¼ NE ¼ sec.3, T.20 N., R.25 W., Carroll County, on right bank at downstream side of bridge on State Highway 143, 5.3 mi northwest of Berryville.	527	1939-75† 1976-90	05-03-90	32.60	46,100
07053215	Dry Creek near Green Forest, Ark.	Lat 36°19'07", long 93°22'34", in SE ¼ NW ¼ sec.12, T.19 N., R.23 W., Carroll County, at bridge on State Highway 62, 3.1 mi east of Green Forest.	9.62	1989-90	05-03-90	11.66	(a)
07054450	East Sugarloaf Creek tributary near Lead Hill, Ark.	Lat 36°22'28", long 92°49'52", in NW ¼ NW ¼ sec.19, T.20 N., R.17 W., Marion County, at culvert on State Highway 14, 5.0 mi southeast of Lead Hill.	.85	1962-90	05-03-90	9.55	550
07055000	White River near Flippin, Ark.	Lat 36°18'35", long 92°33'28", in NE ¼ NW ¼ sec.10, T.19 N., R.15 W., Marion County, on right bank 1.4 mi upstream from Hightower Creek, 3.2 mi northeast of Flippin.	6,081	1928-80† 1981-90	03-28-90	13.53	29,200

"See footnotes at end of table."

Annual maximum discharge at crest-stage partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		WHITE RIVER BASIN--CONTINUED					
07069000	Black River at Pocahontas, Ark.	Lat 36°15'14", long 90°58'12", in SW ¼ SW ¼ sec.27, T.19 N., R.1 E., Randolph County, at bridge on U.S. Highway 67 at Pocahontas.	4,845	1937-70† 1971-78, 1981-90	05-31-90	19.17	18,500
07069250	Brush Creek near Mammoth Spring, Ark.	Lat 36°25'36", long 91°29'27", in SE ¼ SE ¼ sec.34, T.21 N., R.5 W., Fulton County, at culvert on U. S. Highway 63, 5.5 mi southeast of Mammoth Spring. Prior to 1967 published as Spring River tributary near Mammoth Spring.	.48	1961-90	--	<8.94	<223
07069410	Ferguson Creek near Ravenden Springs, Ark.	Lat 36°17'29", long 91°14'29", in NE ¼ SE ¼ sec.13, T.19 N., R.3 W., Randolph County, at bridge on on State Highway 90, 1.9 mi southwest of Ravenden Springs.	3.79	1989-90		<1.20	(a)
07073500	Piney Fork near Evening Shade, Ark.	Lat 36°04'50", long 91°36'39", in SE ¼ NE ¼ sec.34, T.17 N., R.6 W., Sharp County, on right bank, 20 ft upstream from bridge on U.S. Highway 167, 0.8 mi north of Evening Shade.	99.2	1939-84† 1985-90	04-17-90	13.13	4,810
07074420	Black River at Elgin Ferry, Ark.	Lat 35°45'51", long 91°17'40", in NW ¼ SE ¼ SEC.15, T.13 N., R.3 W., Jackson County, on left bank 500 ft downstream from State Highway 37 at Elgin Ferry.	8,418	1979-90	06-03-90	23.83	43,800
07074850	White River near Augusta, Ark.	Lat 35°18'02", long 91°23'35", in SE ¼ SE ¼ sec.22, T.8 N., R.4 W., Woodruff County, on left bank of Taylor Bay 0.5 mi upstream from White River, 0.7 mi upstream from bridge on U.S. Highway 64 and 1.5 mi northwest of Augusta.	20,464	1983-90	05-08-90	b33.32	86,400
07074865	Glaise Creek near Bradford, Ark.	Lat 35°27'45", long 91°32'49", in NW ¼ SW ¼ sec.28, T.10 N., R.5 W., Jackson County, at bridge on State Highway 87, 5.9 mi northwest of Bradford.	8.35	1989-90	03-08-90	7.47	(a)
07075000	Middle Fork Little Red River at Shirley, Ark.	Lat 35°39'25", long 92°17'34", in SW ¼ sec.20, T.12 N., R.12 W., Van Buren County, on right bank 0.5 mi downstream from Sugar Camp (or Weavers) Creek, 1.0 mi east of Shirley.	302	1939-84† 1985-90	05-03-90	23.48	35,600
07075600	Choctaw Creek tributary near Choctaw, Ark.	Lat 35°31'30", long 92°25'03", in SE ¼ SW ¼ sec.6, T.10 N., R.13 W.,Van Buren County, at culvert on State Highway 330, 1.4 mi east of Choctaw.	1.36	1964-90	01-19-90	8.66	175
07075800	Dill Branch tributary near Ida, Ark.	Lat 35°32'36", long 91°57'25", in SW ¼ NE ¼ sec.33, T.11 N., R.9 W.,Cleburne County, at culvert on State Highway 25, 3.5 mi southwest of Ida. Prior to 1975 published as Peter Creek tributary near Ida.	.11	1964-90	03-08-90	6.77	50
07076000	Little Red River near Heber Springs, Ark.	Lat 35°31'02", long 91°59'50", in NE ¼ sec.7, T.10 N., R.9 W., Cleburne County, on right bank 1600 ft downstream from Greers Ferry Dam, 3.0 mi northeast of Heber Springs.	1,153	1927-80† 1981-87 1989-90Ψ	03-25-90, 03-26-90 03-27-90	15.91	--
07076630	Key Branch near Searcy, Ark.	Lat 35°14'47", long 91°47'01", in in NW ¼ SW ¼ sec.8, T.7 N., R.7 W., White County, at culvert on State Highway 36, 2.8 mi west of Searcy. Prior to 1964 published as Little Red River tributary near Searcy.	.66	1961-90	03-08-90	6.09	245
07076750	White River at Georgetown, Ark.	Lat 35°07'45", long 91°27'00", in SW ¼ SW ¼ sec.20, T.6 N., R.4 W., White County,on right bank at Georgetown.	22,387	1978-90	05-09-90	22.55	75,200
07076870	Pigeon Roost Creek at Butlerville, Ark.	Lat 34°58'36", long 91°50'38", in NW ¼ NE ¼ sec.15, T.4 N., R.8 W.,Lonoke County, at bridge on State Highway 38, 0.6 mi west of Butlerville.	23.0	1961-90	03-08-90	11.64	4,500

"See footnotes at end of table."

Annual maximum discharge at crest-stage partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		WHITE RIVER BASIN--CONTINUED					
07077200	Big Creek tributary near Boydsville, Ark.	Lat 36°22'32", long 90° 19'56", in SE ¼ SW ¼ sec.9, T.20 N., R.7 E., Clay County, at culvert on county road, 0.1 mi west of Crockett, and 4.1 mi norhteast of Boydsville.	1.58	1962-90	02-03-90, 03-30-90	6.75	260
07077430	Willow Ditch near Egypt, Ark.	Lat 35°56'29", long 90°56'33", in SW ¼ SW ¼ sec.12, T.15 N., R.1 E., Lawrence County, at culvert on State Highway 91, 5.1 mi north of Egypt.	.25	1963-90	c11-19-88 (a)	5.40 (a)	32 (a)
07077650	Big Creek near Jonesboro, Ark.	Lat 35°51'11", long 90°45'00", in SE ¼ SE ¼ sec.10, T.14 N., R.3 E.,Craighead County, at bridge on State Highway 63, 1.3 mi west of Jonesboro.	50.6	1989-90	04-17-90	16.44	(a)
*07077920	Big Creek at Goodwin, Ark.	Lat 34°56'22", long 91°00'55", in NE ¼ NE ¼ sec.29, T.4 N., R.1 E.,St. Francis County, at bridge on U.S. Highway 70, 0.3 mi east of Goodwin.	31.1	1961-90	02-03-90	9.34	590
		ARKANSAS RIVER BASIN					
07249447	Mill Creek at Fort Smith, Ark.	Lat 35°20'34", long 94°25'20", in NW ¼ NW ¼ sec.33, T.8 N., R.32 W., Sebastian County, on right bank 30 ft upstream from bridge on Towson Avenue in Fort Smith.	10	1981-90	05-02-90	36.40	2,400
07249490	Lee Creek near Lee Creek, Ark.	Lat 35°42'12", long 94°19'37", in NW ¼ SE ¼ sec.19, T.12 N., R.31 W., Crawford County, at bridge on State Highway 220, 1.8 mi northeast of Lee Creek.	93.5	1989-90	05-03-90	14.93	(a)
07249500	Cove Creek near Lee Creek, Ark.	Lat 35°43'20", long 94°24'28", in SW ¼ NW ¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 mi northwest of Lee Creek.	35.3	1951-70† 1971-90	05-03-90	13.74	21,700
07249950	Webber Creek tributary near Cedarville, Ark.	Lat 35°36'00", long 92°22'49", in SE ¼ SE ¼ sec.27, T.11 N., R.32 W., Crawford County, at culvert on State Highway 59, 2.3 mi north of Cedarville.	.34	1962-90	05-03-90	6.81	127
07250515	Sunnymede Creek at Fort Smith, Ark.	Lat 35°23'46", long 94°22'23", in NW ¼ NE ¼ sec.11, T.8 N., R.32 W., Sebastian County, on left bank 100 ft downstream from bridge on North 52nd Street in Fort Smith.	1.5	1981-90	05-03-90	7.17	144
07251500	Frog Bayou at Rudy, Ark.	Lat 35°31'32", long 94°16'18", in SW ¼ SW ¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy.	216	1951-70† 1971-90	05-03-90	18.76	41,300
07251790	Mulberry River near Oark, Ark.	Lat 35°41'01", long 93°35'57", in NW ¼ SE ¼ sec.24, T.12 N., R.25 W., Johnson County, at bridge on State Highway 103, 1.5 mi west of Oark.	70.2	1988-90	05-03-90	8.64	(a)
*07256500	Spadra Creek at Clarksville, Ark.	Lat 35°28'06", long 93°27'46", in NW ¼ NE ¼ sec.5, T.9 N., R.23 W., Johnson County, on right bank at Clarksville, 0.2 mi downstream from bridge on U.S. Highway 64.	61.1	1953-70† 1971-90	05-03-90	14.62	16,300
07256700	Shoal Creek near New Blaine,	Lat 35°17'31", long 93°27'37", in NW ¼ SE ¼ sec.5, T.7 N., R.23 W., Logan County, at bridge on State Highway 22, 2.3 mi west of New Blaine.	50.0	1989-90	05-03-90	19.11	(a)
07257100	Minnow Creek tributary near Hagarville, Ark.	Lat 35°30'11", long 93°21'56", in SE ¼ SE ¼ sec.19, T.10 N., R.22 W., Johnson County, at culvert on State Highway 123, 2.6 mi southwest of Hagarville.	.20	1962-90	05-03-90	4.14	51
*07257200	Little Piney Creek near Lamar, Ark.	Lat 35°26'54", long 93°20'17", in SW ¼ NE ¼ sec.9, T.9 N., R.22 W., Johnson County, on left bank 600 ft upstream from State Highway 359 bridge, 3.0 mi east of Lamar.	154	1978-90	05-03-90	14.87	12,400

"See footnotes at end of table."

Annual maximum discharge at crest-stage partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		ARKANSAS RIVER BASIN--CONTINUED					
07257500	Illinois Bayou near Scottsville, Ark.	Lat 35°27'58", long 93°02'28", in SE ¼ SW ¼ sec.32, T.10 N., R.19 W., Pope County, at bridge on county road, 1.3 mi north of Scottsville.	241	1948-70† 1971-90	05-03-90	17.79	24,300
07258200	Pack Saddle Creek tributary near Waldron, Ark.	Lat 34°58'18", long 94°05'42", in SE ¼ SE ¼ sec.29, T.4 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 5.2 mi north of Waldron.	.92	1961-90	05-03-90	4.22	(a)
07258500	Petit Jean River near Booneville, Ark.	Lat 35°06'25", long 93°55'25", in NW ¼ NW ¼ sec.18, T.5 N., R.27 W., Logan County, on right bank at downstream side of bridge on State Highway 23, 0.5 mi downstream from Fletcher Creek, 2.3 mi south of Booneville.	241	1938-84† 1985-90	05-03-90	22.09	20,700
07259500	Petit Jean River near Waveland, Ark.	Lat 35°06'17", long 93°37'53", in SE ¼ SW ¼ sec.11, T.5 N., R.25 W., Yell County, on left bank 0.8 mi downstream from Rock Creek, 1.3 mi south of Waveland.	516	1939-80† 1981-90	05-03--90	28.96	9,400
07260000	Dutch Creek at Waltreak, Ark.	Lat 34°59'15", long 93°36'45", in SE ¼ NW ¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mi north of Waltreak.	81.4	1945-75† 1976-90	05-03-90	11.55	3,800
07260400	Petit Jean River near Centerville, Ark.	Lat 35°04'30", long 93°11'58", in NE ¼ sec.23, T.5 N., R.21 W., Yell County, on right bank 300 ft upstream from State Highway 7, 3.0 mi southeast of Centerville.	927	1988-90Ψ	05-05-90	26.40	--
*07260673	West Fork Point Remove Creek near Hattieville, Ark.	Lat 35°19'25", long 92°52'22", in NE ¼ SE ¼ sec.23, T.8 N., R.18 W., Pope County, on right bank about 300 ft upstream from State Highway 247 bridge, 0.4 mi downstream from Hackers Creek, 5.5 mi northwest of Hattieville.	222	1978-90	03-08-90	19.75	6,340
07260679	East Fork Point Remove Creek tributary near Saint Vincent, Ark.	Lat 35°16'09", long 92°44'00", in NE ¼ NE ¼ sec.7, T.7 N., R.16 W., Conway County, at culvert on State Highway 213, 2.2 mi south of Saint Vincent.	.09	1967-90	03-08-90	6.71	51
07261250	Cadron Creek near Conway, Ark.	Lat 35°06'51', long 92°31'30", in NE ¼ SE ¼ sec.31, T.6 N., R.14 W., Faulkner County, about 600 ft downstream from bridge on U.S. Highway 64, 4.0 mi west of Conway.	752	1979-90	05-07-90	25.80	(a)
07261800	Brogan Creek near Rover, Ark.	Lat 34°54'27", long 93°24'05", in NW ¼ SE ¼ sec.13, T.3 N., R.23 W., Yell County, at culvert on State Highway 27, 2.7 mi south of Rover. Prior to 1968 published as Fourche Lafave River tributary near Rover.	1.04	1963-90	05-03-90	5.70	275
07262500	Fourche LaFave River near Nimrod, Ark.	Lat 34°57'02", long 93°09'16", in NW ¼ SW ¼ sec.32, T.4 N., R.20 W., Perry County, on left bank 2,000 ft downstream from Nimrod Dam, 4.5 mi southwest of Nimrod.	684	1936-80† 1981-88 1989-90Ψ	05-05-90	17.70	--
07263012	Fourche LaFave River near Aplin, Ark.	Lat 34°57'37", long 92°58'50", in E 1/2 NE ¼ sec.35, T.4 N., R.19 W., Perry County, on right bank 30 ft upstream from bridge on State Highway 155, 1.0 mi south of Aplin.	957	1980-90	05-02-90	30.33	17,800
07263100	Fourche LaFave River tributary near Perryville, Ark.	Lat 35°01'14", long 92°46'06", in NW ¼ SW ¼ sec.1, T.4 N., R.17 W., Perry County, at culvert on State Highway 60, 2.2 mi northeast of Perryville.	1.47	1962-90	05-03-90	9.36	630
07263115	Fourche LaFave River near Houston, Ark.	Lat 35°00'44", long 92°43'24", in NW ¼ NE ¼ sec.8, T.4 N., R.16 W., Perry County, at left bank at downstream side of bridge on State Highway 216, 2.4 mi southwest of Houston.	1,058	1988-90	05-08-90	37.35	(a)
07263530	Fourche Creek at Red Gate, Ark.	Lat 34°38'53", long 92°26'20", in NE ¼ SE ¼ sec.7, T.1 S., R.13 W., Pulaski County, 30 ft downstream from bridge on State Highway 5, 0.5 mi east of Red Gate.	32.4	1978-79, 1981-90	03-08-90	13.57	(a)

"See footnotes at end of table."

Annual maximum discharge at crest-stage partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		ARKANSAS RIVER BASIN--CONTINUED					
07263570	Grassy Flat Creek at Little Rock, Ark.	Lat 34°46'01", long 92°22'33", in SW ¼ NW ¼ sec.35, T.2 N., R.13 W., Pulaski County, at left bank on downstream side of bridge on Reservoir Road in Little Rock.	3.88	1978-79, 1981-88 1989-90Ψ	03-08-90	10.92	--
07263580	Rock Creek at Little Rock, Ark.	Lat 34°43'13", long 92°21'32", in NW ¼ SW ¼ sec.13, T.1 N., R.13 W., Pulaski County, at west 36th Street bridge in Little Rock.	20.5	1978-88 1989-90Ψ	03-08-90	b13.04	--
07263590	Coleman Creek at Little Rock,	Lat 34°45'07", long 92°20'02", in SE ¼ NW ¼ sec.6, T.1 N., R.12 W., Pulaski County, at Markham and N. Tyler in Little Rock.	1.08	1990	05-02-90	17.50	(a)
07264050	Bayou Two Prairie near Furlow, Ark.	Lat 34°51'32", long 91°58'48" in SW ¼ NW ¼ sec.28, T.3 N., R.9 W., Lonoke County, at bridge on State Highway 89, 1.8 mi north of Furlow.	84.9	1989-90	03-08-90	6.56	730
		RED RIVER BASIN					
07339500	Rolling Fork near DeQueen, Ark.	Lat 34°02'51", long 94°24'47", in SW ¼ SW ¼ sec.21, T.8 S., R.32 W., Sevier County, near center of span on downstream side of bridge on U.S. Highway 70, 4.0 mi, west of DeQueen.	182	1948-80† 1981-90	06-15-90	10.20	2,520
07340500	Cossatot River near DeQueen, Ark.	Lat 34°02'45", long 94°12'42", in NE ¼ NE ¼ sec.29, T.8 S., R.30 W., Sevier County, near right bank on downstream side of bridge on U.S. Highway 71, 7.0 mi east of DeQueen.	360	1938-80† 1981-90	03-08-90	14.77	11,900
07341000	Saline River near Dierks, Ark.	Lat 34°05'45", long 94°05'04", in NW ¼ SW ¼ sec.3, T.8 S., R.29 W., Howard County, near left bank on downstream side of U.S. Highway 70, 4.0 mi southwest of Dierks.	121	1938-80† 1981-90	03-08-90	12.88	5,400
07341260	Dillard Creek near Nashville, Ark.	Lat 33°56'38", long 93°54'45", in NE ¼ NE ¼ sec.30, T.9 S., R.27 W., Howard County, at bridge on State Highway 24, 4.1 mi west of Nashville.	5.82	1989-90	03-08-90	8.36	(a)
07348635	Big Creek Tributary at Magnolia, Ark.	Lat 33°15'51", long 93°13'56", in NW ¼ NE ¼ sec.13, T.17 S., R.21 W., Columbia County, at Dudney and Grayson St. in Magnolia.	.34	1990	03-08-90	16.82	(a)
07355800	Lewis Creek Tributary near Mena, Ark.	Lat 34°37'15", long 94°12'15", in NE ¼ SW ¼ sec.33, T.1 S., R.30 W., Polk County, at culvert on U.S. Highway 71, 3.1 mi northeast of Mena.	.65	1961-90	01-19-90	3.27	152
07357740	Bear Creek near Royal, Ark.	Lat 34°30'30", long 93°15'21", in NE ¼ NW ¼ sec.4, T.3 S., R.21 W., Garland County, at bridge on U.S. Highway 270, 1.0 mi west of Royal.	5.99	1989-90	03-08-90	6.42	(a)
07359710	Rock Creek near Glenwood, Ark.	Lat 34°18'34", long 93°32'21", in NW ¼ NE ¼ sec.14, T.5 S., R.24 W., Pike County, at bridge on State Highway 8, 1.3 mi southeast of Glenwood.	8.62	1989-90	05-20-90	13.58	(a)
07359805	Valley Creek near Point Cedar, Ark.	Lat 34°19'16", long 93°15'24", in NW ¼ NE ¼ sec.9, T.5 S., R.21 W., Hot Spring County, at bridge on State Highway 84, 2.9 mi east of Point Cedar.	7.62	1989-90	05-20-90	16.9	10,500
07360100	L'Eau Frais at Joan, Ark.	Lat 34°06'27", long 92°55'22", in SW ¼ NE ¼ sec.22, T.7 S., R.18 W., Clark County, at bridge on State Highway 128, 0.7 mi southeast of Joan.	74.2	1989-90	03-08-90	6.41	(a)
07360200	Little Missouri River near Langley, Ark.	Lat 34°18'41", long 93°53'58", in NW ¼ SW ¼ sec.16, T.5 S., R.27 W., Pike County, at bridge on State Highway 84, 3.3 mi west of Langley.	68.4	1989-90	03-08-90	14.0	(a)

"See footnotes at end of table."

Annual maximum discharge at crest-stage partial-record stations--Continued

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (ft)	Discharge (ft^3/s)
		RED RIVER BASIN--CONTINUED					
07360225	Little Blocker Creek near Langley, Ark.	Lat 34°18'41", long 93°49'06", in SE ¼ NE ¼ sec.18, T.5 S., R.26 W., Pike County, at bridge on State Highway 84, 1.3 mi east of Langley.	5.74	1989-90	03-08-90	9.39	(a)
07361180	South Fork Ozan Creek near Ozan, Ark.	Lat 33°49'15", long 93°42'28", in SE ¼ SW ¼ sec.5, T.11 S. R.25 W., Hempstead County, at bridge on State Highway 4, 2.0 mi south of Ozan.	17.7	1963-90	03-08-90	23.72	5,000
07361760	Bell Creek near Hollywood, Ark.	Lat 34°05'47", long 93°16'53", in NW ¼ NE ¼ sec.31, T.7 S., R.21 W., Clark County, at bridge on State Highway 26, 2.0 mi west of Hollywood.	9.22	1988-90	03-08-90	11.44	(a)
07361894	Mill Creek near Holly Springs, Ark.	Lat 33°46'01", long 92°39'52", in SE ¼ SW ¼ sec.17, T.11 S., R.15 W., Ouachita County, at bridge on State Highway 203, 0.5 mi east of White Springs Church.	9.01	1989-90	03-08-90	13.07	(a)
07362330	Dunn Creek near Hampton, Ark.	Lat 33°32'05", long 92°30'55", in SE ¼ NW ¼ sec.2, T.14 S., R.14 W., Calhoun County, at bridge on State Highway 4, 2.8 mi west of Hampton.	13.6	1962-90	03-08-90	9.51	2,800
07362500	Moro Creek near Fordyce, Ark.	Lat 33°47'32", long 92°20'00, in NW ¼ NW ¼ sec.3, T.11 S., R.12 W., Calhoun-Cleveland County line, on downstream side of bridge on State Highway 8, 4.0 mi southeast of Fordyce.	240	1952-83† 1984-90	03-09-90	14.02	9,890
07362715	Big Creek near Crow, Ark.	Lat 34°37'00", long 92°43'35", in NE ¼ NW ¼ sec.28, T.1 S., R.16 W., Saline County, at bridge on State Highway 5, 2.5 mi east of Crow.	4.73	1988-90	05-20-90	5.36	(a)
07363000	Saline River at Benton, Ark.	Lat 34°34'05", long 92°36'40", in SE ¼ NE ¼ sec.9, T.2 S., R.15 W., Saline County, on left bank 0.8 mi west of Benton, and 3.0 mi downstream from confluence of North Fork and Alum Fork.	550	1951-79† 1980-90	03-08-90	26.26	63,600
07363200	Saline River near Sheridan, Ark.	Lat 34°06'56", long 92°24'21", in NE ¼ NW ¼ sec.15, T.7 S., R.13 W., Grant County, on downstream side of bridge on U.S. Highway 167, 13.5 mi south of Sheridan.	1,123	1971-82† 1983-90	11-23-88 03-10-90	18.54 20.55	c30,000 49,000
07363435	Derrieusseaux Creek near Grapevine, Ark.	Lat 34°08'44", long 92°14'38", in NE ¼ NW ¼ sec.5, T.7 S., R.11 W., Grant County, at bridge on State Highway 54, 4.2 mi east of Grapevine.	77	1989-90	03-08-90	7.94	(a)
07364030	L'Aigle Creek tributary near Hermitage, Ark.	Lat 33°24'48", long 92°12'33", in SE ¼ NW ¼ sec.14, T.15 S., R.11 W., Bradley County, at culvert on State Highway 15, 3.3 mi southwest of Hermitage. Prior to 1975 published as Eagle Creek tributary near Hermitage.	.36	1963-90	03-08-90	5.54	115
07364110	Nevins Creek tributary near Pine Bluff, Ark.	Lat 34°10'08", long 92°05'12", in NW ¼ SE ¼ sec.26, T.6 S., R.10 W., Jefferson County, at culvert on U.S. Highway 79, 6.0 mi southwest of Pine Bluff. Prior to 1962 published as Bayou Bartholomew Tributary near Pine Bluff.	.75	1961-90	(a)	(a)	(a)
07364128	Deep Bayou near Grady, Ark.	Lat 34°02'02", long 91°42'32", on line between secs.16 and 17, T.8 S., R.6 W., Lincoln County, at bridge on State Highway 11, 2.7 mi south of Grady.	102	1989-90	(a)	(a)	(a)
07364550	Caney Creek tributary near El Dorado, Ark.	Lat 33°11'22", long 92°36'28", in NE ¼ NW ¼ sec.1, T.18 S., R.15 W., Union County, at culvert on U.S. Highway 82, 3.5 mi southeast of El Dorado.	.07	1961-90	06-03-90	9.27	130
07365800	Cornie Bayou near Three Creeks, Ark.	Lat 33°02'21", long 92°56'15", in SW ¼ NW ¼ sec.36, T.19 S., R.18 W., Union County, on left bank at downstream side of bridge on State Highway 15, 6.0 mi southwest of Three Creeks.	180	1956-88† 1990	03-09-90	14.57	25,600

† Operated as a continuous-record gaging station.
Ψ Operated as a stage-only station.
* Also a low-flow partial-record station.

a Not determined.
b From floodmarks.
c Revised.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1990

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		WHITE RIVER BASIN				
07048960	War Eagle Creek near Huntsville, Ark.	Lat 36°02'30", long 93°42'17", in NW ¼ sec.23, T.16 N., R.26 W., Madison County, Hydrologic Unit 11010001, at bridge on State Highway 23, 3.6 mi southeast of Huntsville.	105	1964-67, 1987-90	10-18-89	0
07050285	Osage Creek at Osage, Ark.	Lat 36°11'19", long 93°24'51", in NW ¼ SE ¼ sec.27, T.18 N., R.23 W., Carroll County, Hydrologic Unit 11010001, at bridge on State Highway 68, 0.7 mi northwest of Osage.	(a)	1987-90	10-17-89	0
07050390	Osage Creek southwest of Berryville, Ark.	Lat 36°20'55", long 93°35'26", in SW ¼ sec.36, T.20 N., R.25 W., Carroll County, Hydrologic Unit 11010001, at bridge on State Highway 221, 1.7 mi southwest of Berryville.	(a)	1988-90	10-06-88 10-17-89	7.2 1.9
07055565	Crooked Creek at Harrison, Ark.	Lat 36°13'57", long 93°05'28", in NW ¼ NE ¼ sec.10, T.18 N., R.20 W., Boone County, Hydrologic Unit 11010003, at bridge on U.S. Highway 65, 1.0 mi east of Harrison.	(a)	1961, 1987-90	10-18-89	5.55
07061075	Salado Creek near Pleasant Plains, Ark.	Lat 35°36'45", long 91°36'24", in SW ¼ NE ¼ sec.2, T.11 N., R.6 W., Independence County, Hydrologic Unit 11010004, at bridge on U.S. Highway 167, 4.0 mi north of Pleasant Plains.	68.4	1964-65, 1987-90	10-19-89	28.3
07061090	Caney Creek at Southside, Ark.	Lat 35°40'45", long 91°36'56", in SE ¼ SE ¼ sec.10, T.12 N., R.6 W., Independence County, Hydrologic Unit 11010004, at bridge on U.S. Highway 167, 1.4 mi south of Southside.	12.2	1964-65, 1987-90	10-19-89	2.34
07074260	Cooper Creek near Smithville, Ark.	Lat 36°03'11", long 91°18'36", in SW ¼ sec.4, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, at bridge on State Highway 115, 2.0 mi south of Smithville.	31.9	1964-67, 1987-90	10-19-89	2.56
07074300	Strawberry River near Strawberry, Ark.	Lat 35°59'19", long 91°17'08", in SE ¼ NE ¼ sec.34, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, at bridge on State Highway 25, 2.0 mi northeast of Strawberry.	707	1966, 1987-90	10-19-89	136
07074450	Dota Creek near Newark, Ark.	Lat 35°43'43", long 91°24'51", in W ½, and on line between secs.27 and 34, T.13 N., R.4 W., Independence County, Hydrologic Unit 11010009, bridge on State Highway 122, 2.5 mi northeast of Newark.	56.6	1964-67, 1987-90	10-03-88 10-20-89	8.4 11
07074890	Middle Fork Little Red River at Leslie, Ark.	Lat 35°48'59", long 92°32'58", in NW ¼ NE ¼ sec.35, T.14 N., R.15 W., Searcy County, Hydrologic Unit 11010014, at bridge on U.W. Highway 65 at Leslie.	71.8	1987-90	10-18-89	0
07076530	Big Creek near Letona, Ark.	Lat 35°21'43", long 91°48'04", in SE ¼ sec.36, T.9 N., R.8 W., White County, Hydrologic Unit 11010014, at bridge on State Highway 16, 1.8 mi east of Letona.	72.6	1964-67, 1987-90	10-18-89	0
07076800	Bayou des Arc near Garner, Ark.	Lat 35°10'19", long 91°44'47", in SW ¼ sec.3, T.6 N., R.7 W., White County, Hydrologic Unit 08020301, at bridge on State Highway 367, 2.7 mi northeast of Garner.	96.7	1954, 1956-57, 1959-63, 1987-90	10-19-89	0

"See footnotes at end of table."

Low-flow partial-record stations--continued

Discharge measurements made at low-flow partial-record stations during water year 1989

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		WHITE RIVER BASIN--Continued				
07076850	Cypress Bayou near Beebe, Ark.	Lat 35°01'30", long 91°52'23", in SW ¼ sec.28, T.5 N., R.8 W., White-Lonoke County line, Hydrologic Unit 08020301, at bridge on State Highway 31, 3.0 mi south of Beebe.	166	1954, 1956-57, 1959-60, 1961-76†, 1988, 1990	10-20-89	c0.2
07076880	Bull Creek near McRae, Ark.	Lat 35°05'30", long 91°51'17", in NW ¼ sec.3, T.5 N., R.8 W., White County, Hydrologic Unit 08020301, at bridge on State Highway 367, 2.5 mi southwest of McRae.	95.8	1964-67, 1987-88, 1990	10-20-89	0
		ARKANSAS RIVER BASIN				
07191130	Spavinaw Creek near Gravette, Ark.	Lat 36°23'48", long 94°26'50", in SE ¼ NW ¼ sec.24, T.20 N., R.33 W., Benton County, Hydrologic Unit 11070209, at bridge on State Highway 59, 1.8 mi south of Gravette.	(a)	1987-88, 1990	10-17-89	10
07194830	Illinois River near Pedro, Ark.	Lat 36°10'32", long 94°23'32", in NE ¼ SE ¼ sec.4, T.17 N., R.32 W., Benton County, Hydrologic Unit 11110103, at bridge on county road, 0.2 mi south of State Highway 68, and 1.0 mi northeast of Pedro.	(a)	1987-90	10-04-88 10-17-89	24 28
07247100	Black Fork near Page, Okla.	Lat 34°45'35", long 94°29'24", in SE ¼ sec.5, T.3 N., R.27 E., LeFlore County, Hydrologic Unit 11110105, at highway bridge, 2.1 mi west of Arkansas-Oklahoma State line, and 5.0 mi northeast of Page.	46.6	1958-63, 1988, 1990	10-25-89	0.11
07247200	Big Creek at Howard, Ark.	Lat 34°42'24", long 94°26'14", in SE ¼ sec.31, T.1 N., R.32 W., Polk County, Hydrologic Unit 11110105, 300 ft north of U.S. Highway 270, 1.0 mi east of Arkansas-Oklahoma State line at Howard.	11.1	1958-63, 1987-88, 1990	10-24-89	0.18
07260595	Spring Creek near Belleville, Ark.	Lat 35°06'15", long 93°23'58", in NE ¼ SW ¼ sec.12, T.5 N., R.23 W., Yell County, Hydrologic Unit 11110204, at bridge on county road, 2.9 mi northeast of Belleville.	(a)	1989-90	10-16-89	0.92
07260623	Little Chickalah Creek at Chickalah, Ark.	Lat 35°09'53", long 93°17'09", in NW ¼ NE ¼ sec.24, T.6 N., R.22 W., Yell County, Hydrologic Unit 11110204, at bridge on State Highway 27 at Chickalah.	(a)	1987-90	10-16-89	0.08
07263420	Little Maumelle River at Pinnacle, Ark.	Lat 34°50'15", long 92°29'48", in NE ¼ SE ¼ sec.4, T.2 N., R.14 W., Pulaski County, Hydrologic Unit 11110207, at bridge on State Highway 300, 0.9 mi north of Pinnacle.	61.7	1988-90	10-29-89	9.4
		RED RIVER BASIN				
07339790	Bear Creek near DeQueen, Ark.	Lat 34°01'09", long 94°20'29", in SE ¼ SW ¼ sec.31, T.8 S., R.31 W., Sevier County, Hydrologic Unit 11140109, at bridge on State Highway 41, 1.2 mi south of DeQueen.	40.6	1987-88, 1990	10-24-89	1.3
07340945	Saline River near Burg, Ark.	Lat 34°12'39", long 94°03'02", in NW ¼ SW ¼ sec.25, T.6 S., R.29 W., Howard County, Hydrologic Unit 11140109, at bridge on State Highway 4, 2.0 mi southeast of Burg.	57.4	1987-88 1990	10-24-89	1.7
07341225	Blue Bayou near Shiloh, Ark.	Lat 33°52'31", long 94°00'08", in NW ¼ SW ¼ sec.21, T.10 S., R.28 W., Howard County, Hydrologic Unit 11140109, at bridge on county road, 1.4 mi west of Shiloh.	(a)	1987-88 1990	10-24-89	2.4

"See footnotes at end of table."

Low-flow partial-record stations--continued

Discharge measurements made at low-flow partial-record stations during water year 1989

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		RED RIVER BASIN--Continued				
07342350	McKinney Bayou near Garland, Ark.	Lat 33°24'46", long 93°48'27", in SE ¼ sec.29, T.15 S., R.26 W., Miller County, Hydrologic Unit 11140201, at bridge on U.S. Highway 82, 6.7 mi northwest of Garland.	175	1959-63, 1988-90	11-02-89	10
07342380	McKinney Bayou near Fouke, Ark.	Lat 33°13'26", long 93°49'52", in SW ¼ SE ¼ sec.31, T.17 S., R.26 W., Miller County, Hydrologic Unit 11140201, at bridge on State Highway 134, 4.1 mi southeast of Fouke.	(a)	1987-88 1990	11-02-89 12-06-89	17 18
07348650	Bayou Dorcheat near Taylor, Ark.	Lat 33°05'53", long 93°22'53", in NW ¼ sec.15, T.19 S., R.22 W., Columbia County, Hydrologic Unit 11140203, at county road 0.3 mi southeast of State Highway 160, and 4.7 mi east of Taylor.	389	1988, 1990	10-31-89	0
07356500	South Fork Ouachita River at Mount Ida, Ark.	Lat 34°33'37", long 93°38'09", in NE ¼ sec.23, T.2 S., R.25 W., Montgomery County, Hydrologic Unit 08040101, at bridge on U.S. Highway 270 at Mount Ida.	61.0	1949-70† 1987-90	10-25-89	7.7
07359565	Tenmile Creek near Central, Ark.	Lat 34°16'02", long 92°51'08", in NE ¼ NE ¼ sec.29, T.5 S., R.17 W., Hot Spring County, Hydrologic Unit 08040102, at culvert on county road, 2.2 mi south of Central.	(a)	1988-90	10-30-89	1.5
07361160	North Fork Ozan Creek near McCaskill, Ark.	Lat 33°52'24", long 93°38'30", near center and on line between secs.14 and 23, T.10 S., R.25 W., Hempstead County, Hydrologic Unit 08040103, at bridge on county road, 3.0 mi south of State Highway 24 and McCaskill.	97.3	1964-67, 1987-90	11-01-89 12-05-89	5.3 3.2
07361629	Terre Rouge Creek northeast of Hope, Ark.	Lat 33°43'22", long 93°32'28", in NE ¼ NW ¼ sec.12, T.12 S., R.24 W., Hempstead County, Hydrologic Unit 08040103, at bridge on State Highway 174, 4.7 mi northeast of Hope.	(a)	1987-90	11-02-89 12-06-89	5.9 5.8
07361640	Little Terre Rouge Creek near Emmet, Ark.	Lat 33°44'56", long 93°27'45", in NE ¼ sec.34, T.11 S., R.23 W., Nevada County, Hydrologic Unit 08040103, at bridge on U.S. Highway 67, 1.4 mi northeast of Emmet.	40.5	1964-67, 1987-90	12-05-89	9.7
07361660	Little Missouri River near Whelen Springs, Ark.	Lat 33°48'54", long 93°08'23", in NE ¼ NE ¼ sec.3, T.11 S., R.20 W., Clark County, Hydrologic Unit 08040103, at bridge on State Highway 53, 1.2 mi southwest of Whelen Springs.	1421	1988, 1990	12-05-89	87
07361800	Terre Noire Creek near Gurdon, Ark.	Lat 33°55'02", long 93°02'08", in SW ¼ sec.27, T.9 S., R.19 W., Clark County, Hydrologic Unit 08040103, at bridge on county road, 7.0 mi east of Gurdon.	258	1959-63, 1966, 1987-90	11-01-89	c0.6
07361847	Tulip Creek east of Pine Grove, Ark.	Lat 33°52'35", long 92°44'39", in NE ¼ NE ¼ sec.9, T.10 S., R.16 W., Dallas County, Hydrologic Unit 08040102, at bridge on county road, 1.1 mi north of State Highway 128, and 1.6 mi east of Pine Grove.	128	1987-90	10-31-89	12
07362820	South Fork Saline River at Nance, Ark.	Lat 34°33'17", long 92°45'48", in NE ¼ SW ¼ sec.18, T.2 S., R.16 W., Saline County, Hydrologic Unit 08040203, at bridge on county road, 0.4 mi north of U.S. Highway 70, and 0.5 mi northeast of Nance.	(a)	1964, 1987-90	10-30-89	17
07363097	Francois Creek north of Poyen, Ark.	Lat 34°21'09", long 92°37'57", in NE ¼ NW ¼ sec.28, T.4 S., R.15 W., Grant County, Hydrologic Unit 08040203, at bridge on State Highway 229, 2.1 mi north of Poyen.	(a)	1988-90	10-30-89	0.6

"See footnotes at end of table."

Low-flow partial-record stations--continued

Discharge measurements made at low-flow partial-record stations during water year 1989

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
		RED RIVER BASIN--Continued				
07363110	Big Creek at Poyen, Ark.	Lat 34°18'52", long 92°38'25", in SE ¼ sec.5, T.5 S., R.15 W., Grant County, Hydrologic Unit 08040203, at bridge on State Highway 229, 0.7 mi south of Poyen.	32.1	1964-67, 1988-90	10-30-89	5.9
07363160	Saline River near Leola, Ark.	Lat 34°12'37", long 92°32'52", in NW ¼ SW ¼ sec.8, T.6 S., R.14 W., Grant County, Hydrologic Unit 08040203, at bridge on State Highway 46, 3.8 mi northeast of Leola.	896	1964-65, 1987-90	10-22-89	98
07363276	Hurricane Creek near Ico, Ark.	Lat 34°27'05", long 92°22'18", in NE ¼ sec.23, T.3 S., R.13 W., Grant County, Hydrologic Unit 08040203, at bridge on county road 1.2 mi west of Ico.	(a)	1963-65, 1987-90	10-22-89	12
07363435	Derrieusseaux Creek near Grapevine, Ark.	Lat 34°08'44", long 92°14'39", in NE ¼ NW ¼ sec.5, T.7 S., R.11 W., Grant County, Hydrologic Unit 08040203, at bridge on county road, 0.6 mi west of Grant-Jefferson County line, and 4.3 mi east of Grapevine.	77.0	1964-65, 1987-90	10-22-89	0
07364003	Saline River southeast of Warren, Ark.	Lat 33°34'57", long 92°01'32", in SW ¼ NW ¼ sec.15, T.13 S., R.9 W., Bradley County, Hydrologic Unit 08040204, at abandoned county road bridge, 1.6 mi south of State Highway 4, 3.1 mi southeast of Warren.	(a)	1987-90	11-01-89	121
07364060	Bayou Lapile at Strong, Ark.	Lat 33°06'53", long 92°20'47", in NE ¼ sec.33, T.18 S., R.12 W., Union County, Hydrologic Unit 08040202, at highway bridge, 0.5 mi northeast of Strong.	(a)	1958-65, 1987-90	10-30-89	2.4
07365900	Three Creeks near Three Creeks, Ark.	Lat 33°04'01", long 92°53'02", in NW ¼ sec.20, T.19 S., R.17 W., Union County, Hydrologic Unit 08040206, at bridge on State Highway 15, 2.2 mi southwest of the town of Three Creeks.	50.4	1956-71† 1987, 1990	10-31-89	0

a Not determined
c Estimated
† Operated as a continuous-record gaging station

Special Study and Miscellaneous Sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

DISCHARGE MEASUREMENTS MADE AT SPECIAL STUDY AND MISCELLANEOUS SITES DURING WATER YEAR 1990

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		ST. FRANCIS RIVER BASIN				
07047947 Second Creek	L'Anguille River	Lat 35°02'20", long 90°54'40", in SW ¼ SE ¼ sec.17, T.5 N., R.2 E., St. Francis County at bridge on county road 4.0 mi north of Palestine.	(a)	1986-89	10-04-89 03-19-90 06-11-90 08-27-90	80.1 240 b.20 b.20
		WHITE RIVER BASIN				
07048550 West Fork White River	White River	Lat 36°03'00", long 94°04'42", in NW ¼ sec.20, T.16 N., R.30 W., Washington County at bridge on Mally Wagon Road, 0.5 mi north of State Highway 16, and 4.3 mi east of Fayetteville.	(a)	1986-89	11-07-89 03-13-90 06-05-90 08-15-90	1.25 803 126 3.26
07069170 Spring River	Black River	Lat 36°30'10", long 91°31'31", in SE ¼ SE ¼ sec.5, T.21 N., R.5 W., Oregon County, Mo., at bridge on county road, 0.6 mi east of U.S. Highway 63, 0.2 mi north of Missouri-Arkansas State line, and 1.1 mi southeast of Thayer, Mo.	(a)	1971-75, 1983-89	02-15-90 06-15-90 09-13-90	255 160 24.3
07069295 South Fork Spring River	Spring River	Lat 36°21'00", long 91°38'00", in NW ¼ NW ¼ sec.33, T.20 N., R.6 W., Fulton County, at bridge on State Highway 289, 0.2 mi southeast of Saddle.	(a)	1974-89	02-14-90 06-21-90 09-13-90	245 88.1 18.3
07076950 Wattensaw Bayou	White River	Lat 34°52'34", long 91°33'56", in SE ¼ SE ¼ sec.18, T.3 N., R.5 W., Prairie County, at bridge on State Highway 11, 7.0 mi north of Hazen.	(a)	1984-89	02-07-90 04-19-90 04-23-90 07-16-90 08-27-90	750 308 979 b3.0 0
		ARKANSAS RIVER BASIN				
07188910 Butler Creek	Elk River	Lat 36°30'44", long 94°28'54", in NW ¼ NW ¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at county bridge about 500 ft west of State Highway 59, 0.9 mi north of State line along Highway 59, and 2.0 mi northwest of Sulphur Springs.	34.9	1971-89	11-07-89 03-14-90 06-05-90	6.10 43.2 60.3
07194800 Illinois River	Arkansas River	Lat 36°06'11", long 94°20'39", in NW ¼ SE ¼ sec.36, T.17N., R.32W, Washington County, at bridge on State Highway 16 at Savoy.	167	1957-63c 1974-78 1979-81d 1982-85	03-13-90 06-01-90 08-16-90	994 412 20.8
07195000 Osage Creek	Illinois River	Lat 36°13'19", long 94°17'18", in SW ¼ NE ¼ sec.21, T.18 N., R.31 W., Benton County, on left bank, 0.7 mi downstream from Little Osage Creek, and 3.2 mi northwest of Elm Springs.	130	1950-75d 1977, 1982-89	11-07-89 03-13-90 06-05-90 08-15-90	47.2 391 272 98.4
07195400 Illinois River	Arkansas River	Lat 36°08'41", long 94°29'41", in SW ¼ SW ¼ sec.15, T.17 N., R.33 W., Benton County, at bridge on State Highway 16, 4.6 mi southeast of Siloam Springs.	509	1979-81d 1982-85 1986c 1987-89	11-07-89 06-01-90	111 1,580
07246950 Poteau River	Arkansas River	Lat 34°54'47", long 94°06'28", in SE ¼ SW ¼ sec.17, T.3 N., R.29 W., Scott County, at bridge on U.S. Highway 71, 0.9 mi north of Waldron.	(a)	1986-89	10-25-89 05-23-90	0 20.9
07260620 Chickalah Creek	Petit Jean River	Lat 35°09'36", long 93°17'34", in SW ¼ sec.24, T.6 N., R.22 W., Yell County, at bridge on State Highway 27, 0.5 mi upstream from Little Chickalah Creek and 1.0 mi southwest of Chickalah.	(a)	1964-67c 1986-89	03-07-90 06-05-90 08-31-90	667 53.8 0

"See footnotes at end of table."

Special study and miscellaneous sites--Continued

DISCHARGE MEASUREMENTS MADE AT SPECIAL STUDY AND MISCELLANEOUS SITES DURING WATER YEAR 1989

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		RED RIVER BASIN				
e07338720 Mountain Fork	Little River	Lat 34°30'18", long 94°25'50", in NE ¼ NE ¼ sec.17, T.3 S., R.32 W., Polk County, at bridge on State Highway 246, 3.1 mi northwest of Hatfield.	168	1962-67c 1971-73 1986-89	10-24-89 07-10-90	2.58 6.28
f07344300 Days Creek	Sulphur River	Lat 33°19'06", long 94°00'16", in NE ¼ SE ¼ sec.33, T.16 S., R.28 W., Miller County, at bridge on State Highway 237, 7.0 mi south of Texarkana.	78.5	1973-89	10-03-89 11-16-89 02-08-90 04-26-90 08-29-90	22.5 17.2 48.2 57.5 12.8
073494000 Bodcau Creek	Red Chute Bayou	Lat 33°15'42", long 93°33'05", in SE ¼ sec.14, T.17 S., R.14 W., Lafayette County, at bridge on State Highway 313, 6.7 mi southeast of Lewisville.	297	1974-85, 1987-89	02-09-90 04-26-90	1,320 327
07359770 Caddo River	Ouachita River	Lat 34°17'05", long 93°24'56", in NW ¼ SE ¼ sec.24, T.5 S., R.23 W., Clark County, at bridge on State Highway 84, 2.9 mi northeast of Amity.	291	1987-89	02-27-90 07-17-90	410 79.3
07360200 Little Missouri	Ouachita River	Lat 34°18'41", long 93°53'58", in SW ¼ sec.16, T.5 S., R.26 W., Pike County, at bridge on State Highway 84, 3.3 mi west of Langley.	68.4	1958-63d 1974-89	10-24-89 04-19-90 07-25-90	18 179 43.9
07362550 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 west of Banks.	385	1958-63d 1974-89	11-01-89 01-22-90 04-25-90 07-09-90	0 1,030 359 0
07363270 Hurricane Creek	Saline River	Lat 34°30'40", long 92°24'54", in SW ¼ sec.28, T.2 S., R.13 W., Saline County, at crossing on county road, 200 ft downstream from Brushy Creek, 1.5 mi southwest of Sardis.	66.0	1974-89	02-07-90 07-13-90	105 4.29
07364115 Bayou Bartholomew	Ouachita River	Lat 34°06'24", long 91°54'06", in NW ¼ sec.22, T.7 W., R.8 W., Jefferson County, at bridge on county road, 2.2 south of Ladd.	(a)	1968, 1974-89	10-30-89 07-11-90	0 0

a Not determined.
b Estimated.
c Operated as a low-flow partial-record station.
d Operated as a continuous-record station.
e Also a low-flow partial-record station.
f Operated as a stage station by U.S. Army Corps of Engineers.

Water-quality data in the following table were collected in conjunction with low-flow discharge measurements made during baseflow conditions.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

	DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)
07050390	- OSAGE CREEK SOUTHWEST OF BERRYVILLE, ARK. (LAT 36°23'22"N LONG 093°39'33"W)						
	OCT 17...	1615	80513	80513	1.91	16.0	362
07055565	- CROOKED CREEK AT HARRISON, ARK. (LAT 36°25'13"N LONG 092°56'05"W)						
	OCT 18...	1130	80513	80513	5.6	13.0	378
07061075	- SALADO CREEK NEAR PLEASANT PLAINS, ARK. (LAT 35°36'45"N LONG 091°36'24"W)						
	OCT 18...	1720	80513	80513	28	15.0	46
07061090	- CANEY CREEK AT SOUTHSIDE, ARK. (LAT 35°40'45"N LONG 091°36'56"W)						
	OCT 19...	1010	80513	80513	2.34	10.0	231
07074260	- COOPER CREEK NEAR SMITHVILLE, ARK. (LAT 36°03'11"N LONG 091°18 36"W)						
	OCT 19...	1510	80513	80513	2.56	12.0	428
07074300	- STRAWBERRY RIVER NEAR STRAWBERRY, ARK. (LAT 35°59'19"N LONG 091°17'08"W)						
	OCT 19...	1210	80513	80513	136	12.5	391
07074450	- DOTA CREEK NEAR NEWARK, ARK. (LAT 35°52'15"N LONG 091°18'36"W)						
	OCT 20...	1120	80513	80513	11	12.0	182
07076850	-CYPRESS BAYOU NEAR BEEBE, ARK. (LAT 35°01'30"N LONG 091°52'23"W)						
	OCT 20...	1545	80513	80513	c0.2	13.5	126
07191130	- SPAVINAW CREEK NEAR GRAVETTE, ARK. (LAT 36°23'48"N LONG 094°26'50"W)						
	OCT 17...	1145	80513	80513	10	15.0	277
07194830	- ILLINOIS RIVER NEAR PEDRO, ARK. (LAT 36°10'32"N LONG 094°23'32"W)						
	OCT 17...	0945	80513	80513	28	16.5	330
07247100	-BLACK FORK NEAR PAGE, OKLA. (LAT 34°45'35"N LONG 094°29'24"W)						
	OCT 25...	0855	80513	80513	0.11	16.5	41
07247200	-BLACK CREEK AT HOWARD, ARK. (LAT 34°42'24"N LONG 094°26'14"W)						
	OCT 24	1630	80513	80513	0.18	19.0	30
07260595	-SPRING CREEK NEAR BELLEVILLE, ARK. (LAT 35°06'15"N LONG 093°23'58"W)						
	OCT 16		80513	80513	0.92	22.0	57
07263420	- LITTLE MAUMELLE RIVER AT PINNACLE, ARK. (LAT 34°50'15"N LONG 092°29'48"W)						
	OCT 29...	1520	80513	80513	9.4	17.0	57
07339790	-BEAR CREEK NEAR DEQUEEN, ARK. (LAT 34°01'09"N LONG 094°20'29"W)						
	OCT 24...		80513	80513	1.3	16.0	99
07340945	-SALINE RIVER NEAR BURG, ARK. (LAT 34°12'39"N LONG 094°03'02"W)						
	OCT 24...	1300	80513	80513	1.7	17.0	46
07341225	-BLUE BAYOU NEAR SHILOH, ARK. (LAT 33°52'31"N LONG 094°00'08"W)						
	OCT 24...	1100	80513	80513	2.4	15.5	71

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

	DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)
07342350	-MCKINNEY BAYOU NEAR GARLAND (LAT 33°24'56"N LONG 093°48'27"W)						
	NOV 02...	1105	80513	80513	10	14.5	705
07342380	-MCKINNEY BAYOU NEAR FOUKE, ARK. (LAT 33°13'26"N LONG 093°49'52"W)						
	NOV 02...	0840	80513	80513	17	14.5	968
	DEC 06...		80513	80513	18	10.0	954
07359565	- TENMILE CREEK NEAR CENTRAL, ARK. (LAT 34°16'02"N LONG 092°51'08"W)						
	OCT 30...	1300	80513	80513	1.5	14.5	15
07361160	- NORTH FORK OZAN CREEK NEAR MCCASKILL, ARK. (LAT 33°52'24"N LONG 093°38'30"W)						
	NOV 01...	1540	80513	80513	5.3	13.5	49
	DEC 05...	1535	80513	80513	3.2	6.5	51
07361629	- TERRE ROUGE CREEK NORTHEAST OF HOPE, ARK. (LAT 33°43'22"N LONG 093°32'28"W)						
	NOV 02...	1410	80513	80513	5.9	13.0	94
	DEC 06...	0747	80513	80513	9.7	8.0	99
07361640	- LITTLE TERRE ROUGE CREEK NEAR EMMET, ARK. (LAT 33°44'56"N LONG 093°27'45"W)						
	DEC 05...	1700	80513	80513	9.7	7.5	86
07361660	-LITTLE MISSOURI RIVER NEAR WHELEN SPRINGS, ARK. (LAT 33°48'54"N LONG 093°08'23"W)						
	DEC 05...	1300	80513	80513	87	8.5	71
07361800	- TERRE NOIRE CREEK NEAR GURDON, ARK. (LAT 33°55'02"N LONG 093°02'08"W)						
	NOV 01...	1230	80513	80513	c0.6	14.5	272
07361847	- TULIP CREEK EAST OF PINE GROVE, ARK. (LAT 33°52'35"N LONG 092°44'39"W)						
	OCT 31...	1430	80513	80513	12	15.0	322
07362820	- SOUTH FORK SALINE RIVER AT NANCE, ARK. (LAT 34°33'17"N LONG 092°45'48"W)						
	OCT 30...	1015	80513	80513	17	15.0	126
07363097	- FRANCOIS CREEK NORTH OF POYEN, ARK. (LAT 34°36'18"N LONG 092°37'07"W)						
	OCT 30...	1550	80513	80513	0.6	15.0	36
07363110	- BIG CREEK AT POYEN, ARK. (LAT 34°18'52"N LONG 092°38'25"W)						
	OCT 30...	1430	80513	80513	5.9	14.5	64
07363160	- SALINE RIVER NEAR LEOLA, ARK. (LAT 34°12'37"N LONG 092°32'52"W)						
	OCT 22...	1745	80513	80513	98	15.0	182
07363276	- HURRICANE CREEK NEAR ICO, ARK. (LAT 34°27'05"N LONG 092°22'18"W)						
	OCT 22...	1335	80513	80513	12	12.0	1070
07364003	- SALINE RIVER SOUTHEAST OF WARREN, ARK. (LAT 33°34'57"N LONG 092°01'32"W)						
	NOV 01...	1130	80513	80513	121	16.5	205
07364060	- BAYOU LAPILE AT STRONG, ARK. (LAT 33°06'53"N LONG 092°20'47"W)						
	OCT 30...	1700	80513	80513	2.4	15.5	790

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 less than monthly.

WHITE RIVER BASIN

07048800 RICHLAND CREEK AT GOSHEN, ARKANSAS
(LAT 36°06'10" LONG 094°00'25")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
11.	0715	80513	80020	0.0	--	--	--	--	--
11.	0720	80513	80020	1.00	251	7.8	5.5	12.2	101
MAY									
16.	1240	80513	80020	0.0	--	--	--	--	--
16.	1245	80513	81213	2.00	114	7.3	20.5	9.7	113
16.	1250	80513	80020	3.00	--	--	--	--	--
JUL									
30.	1240	80513	81213	0.0	220	8.0	30.5	11.1	154

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
11.	0715	>0.61	3	--	--	--	--	--
11.	0720	--	--	<5	4.9	2.6	130	45
MAY								
16.	1240	>1.20	83	--	--	--	--	--
16.	1245	--	--	20	6.0	0.7	49	17
JUL								
30.	1240	>0.30	110	<5	0.71	2.1	100	37

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
11.	0720	3.1	120	0.030	0.050	0.020	30.0	5.20
MAY								
16.	1245	1.6	42	0.450	0.010	0.010	--	--
16.	1250	--	--	--	--	--	0.300	<0.100
JUL								
30.	1240	2.6	106	0.070	0.050	0.010	1.80	0.200

07048910 BEAVER LAKE AT HIGHWAY 68 BRIDGE NEAR SONORA, ARKANSAS
(LAT 36°06'14" LONG 094°00'26")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
11.	0850	80513	80020	0.0	--	--	--	--	--
11.	0851	80513	80020	3.00	--	--	--	--	--
11.	0855	80513	81213	19.0	173	7.9	4.5	12.8	103
MAY									
16.	1205	80513	80020	0.0	--	--	--	--	--
16.	1206	80513	80020	3.00	--	--	--	--	--
16.	1210	80513	81213	21.0	107	7.3	15.5	7.0	74
JUL									
30.	1315	80513	81213	0.0	--	--	--	--	--
30.	1316	80513	80020	3.00	--	--	--	--	--
30.	1320	80513	81213	22.0	191	7.0	24.5	0.5	6

WHITE RIVER BASIN--CONTINUED

07048910 BEAVER LAKE AT HIGHWAY 68 BRIDGE NEAR SONORA, ARKANSAS--CONTINUED
(LAT 36°06'14" LONG 094°00'26")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
11.	0850	2.20	0	--	--	--	--	--
11.	0855	--	--	<5	2.5	1.6	76	27
MAY								
16.	1205	0.58	74	--	--	--	--	--
16.	1210	--	--	70	42	1.0	44	15
JUL								
30.	1315	1.60	0	--	--	--	--	--
30.	1320	--	--	<5	10	1.9	86	31

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
11.	0851	--	--	--	--	--	3.70	<0.100
11.	0855	2.0	66	0.180	0.020	0.010	--	--
MAY								
16.	1206	--	--	--	--	--	6.70	0.600
16.	1210	1.5	39	0.660	0.060	0.040	--	--
JUL								
30.	1316	--	--	--	--	--	4.00	0.400
30.	1320	2.0	80	0.110	0.030	0.010	--	--

07049050 BEAVER LAKE AT WAR EAGLE, ARKANSAS
(LAT 36°16'03" LONG 093°56'35")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
11.	0830	80513	80020	0.0	--	--	--	--	--
11.	0835	80513	80020	1.00	293	8.1	4.5	13.1	105
MAY									
16.	1030	80513	80020	0.0	--	--	--	--	--
16.	1035	80513	81213	3.00	158	7.4	19.5	9.2	105
JUL									
30.	1400	80513	81213	0.0	201	7.8	27.0	7.9	103

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
11.	0830	>0.61	6	--	--	--	--	--
11.	0835	--	--	<5	1.5	1.2	120	46
MAY								
16.	1030	>1.80	83	--	--	--	--	--
16.	1035	--	--	5	4.2	0.8	68	25
JUL								
30.	1400	>0.30	37	5	2.3	1.4	120	44

WHITE RIVER BASIN--CONTINUED

07049050 BEAVER LAKE AT WAR EAGLE, ARKANSAS--CONTINUED
(LAT 36°16'03" LONG 093°56'35")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
11.	0835	1.8	118	1.70	<0.020	0.010	2.20	<0.100
MAY								
16.	1035	1.4	62	0.840	0.160	0.010	0.700	<0.100
JUL								
30.	1400	1.7	110	0.950	0.030	0.010	1.20	0.200

07049200 BEAVER LAKE AT ROGERS WATER INTAKE NEAR LOWELL, ARKANSAS
(LAT 36°15'31" LONG 094°04'09")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
10...	1400	80513	80020	0.0	--	--	--	--	--
10...	1401	80513	80020	3.00	--	--	--	--	--
10...	1405	80513	81213	11.0	138	7.0	5.5	12.0	99
10...	1410	80513	81213	43.0	138	7.2	5.0	11.9	97
MAY									
16...	0730	80513	80020	0.0	--	--	--	--	--
16...	0731	80513	80020	3.00	--	--	--	--	--
16...	0735	80513	81213	18.0	65	7.8	15.5	8.9	94
16...	0740	80513	81213	72.0	67	7.4	14.0	4.4	45
JUL									
31...	0750	80513	81213	0.0	--	--	--	--	--
31...	0751	80513	80020	3.00	--	--	--	--	--
31...	0755	80513	81213	15.0	113	8.5	27.5	8.4	111
31...	0800	80513	81213	60.0	112	7.3	15.5	0.4	4

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JAN									
10...	1400	1.70	0	--	--	--	--	--	--
10...	1405	--	--	<5	2.3	0.9	62	22	1.6
10...	1410	--	--	<5	2.1	0.8	59	21	1.6
MAY									
16...	0730	0.24	19	--	--	--	--	--	--
16...	0735	--	--	120	82	1.3	30	10	1.1
16...	0740	--	--	400	--	1.3	23	7.6	0.90
JUL									
31...	0750	2.50	1	--	--	--	--	--	--
31...	0755	--	--	<5	0.88	1.3	54	19	1.5
31...	0800	--	--	40	41	1.6	54	19	1.6

WHITE RIVER BASIN--CONTINUED

07049200 BEAVER LAKE AT ROGERS WATER INTAKE NEAR LOWELL, ARKANSAS--CONTINUED
(LAT 36°15'31" LONG 094°04'09")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
JAN									
10...	1405	60	0.200	<0.020	0.010	40	<1	<10	<1
10...	1410	60	0.190	<0.020	0.010	60	<1	<10	<1
MAY									
16...	0735	26	0.450	0.090	0.080	1400	2	<10	2
16...	0740	21	0.350	0.240	0.180	4400	6	<10	3
JUL									
31...	0755	44	0.030	0.020	0.010	20	<1	1	1
31...	0800	50	0.490	0.060	0.040	780	2	2	2

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN									
10...	1401	--	--	--	--	--	--	2.40	<0.100
10...	1405	120	<1	40	<0.10	2	<10	--	--
10...	1410	140	<1	50	<0.10	<1	10	--	--
MAY									
16...	0731	--	--	--	--	--	--	3.90	0.500
16...	0735	2900	<1	100	<0.10	3	20	--	--
16...	0740	9000	4	570	<0.10	8	30	--	--
JUL									
31...	0751	--	--	--	--	--	--	2.20	0.200
31...	0755	30	<1	20	<0.10	<1	<10	--	--
31...	0800	1700	<1	1200	<0.10	2	10	--	--

07049230 BEAVER LAKE AT MONTE NE, ARKANSAS
(LAT 36°16'56" LONG 094°04'30")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
10.	1340	80513	80020	0.0	--	--	--	--	--
10.	1345	80513	80020	3.00	180	7.9	6.0	12.3	103
MAY									
16.	0800	80513	80020	0.0	--	--	--	--	--
16.	0801	80513	80020	3.00	--	--	--	--	--
16.	0805	80513	81213	6.00	101	7.3	18.0	8.4	93
JUL									
31.	0825	80513	81213	0.0	--	--	--	--	--
31.	0826	80513	80020	3.00	--	--	--	--	--
31.	0830	80513	81213	4.00	116	8.6	27.5	8.7	114

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
10.	1340	1.20	0	--	--	--	--	--
10.	1345	--	--	<5	2.6	--	89	33
MAY								
16.	0800	0.21	24	--	--	--	--	--
16.	0805	--	--	240	84	1.2	42	15
JUL								
31.	0825	1.60	1	--	--	--	--	--
31.	0830	--	--	5	1.1	1.5	53	19

WHITE RIVER BASIN--CONTINUED

07049230 BEAVER LAKE AT MONTE NE, ARKANSAS--CONTINUED
(LAT 36°16'56" LONG 094°04'30")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
10.	1345	1.6	78	0.790	<0.020	0.010	3.90	<0.100
MAY								
16.	0801	--	--	--	--	--	1.90	0.100
16.	0805	1.1	37	0.580	0.180	0.100	--	--
JUL								
31.	0826	--	--	--	--	--	1.90	0.300
31.	0830	1.4	50	0.040	<0.020	0.010	--	--

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS, ARKANSAS
(LAT 36°19'57" LONG 094°01'08")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
10...	1300	80513	80020	0.0	--	--	--	--	--
10...	1301	80513	80020	3.00	--	--	--	--	--
10...	1305	80513	81213	24.0	123	7.9	5.5	12.4	102
10...	1310	80513	81213	96.0	119	7.7	5.0	11.5	93
MAY									
16...	0900	80513	80020	0.0	--	--	--	--	--
16...	0901	80513	80020	3.00	--	--	--	--	--
16...	0905	80513	81213	25.0	95	7.3	16.0	8.6	91
16...	0910	80513	81213	100	132	7.2	9.5	6.3	58
JUL									
31...	0920	80513	81213	0.0	--	--	--	--	--
31...	0921	80513	80020	3.00	--	--	--	--	--
31...	0925	80513	81213	24.0	108	7.4	24.5	2.6	32
31...	0930	80513	81213	96.0	95	7.2	13.0	0.4	4

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JAN									
10...	1300	4.90	0	--	--	--	--	--	--
10...	1305	--	--	<5	1.7	1.1	54	19	1.5
10...	1310	--	--	5	2.7	1.2	54	19	1.5
MAY									
16...	0900	0.24	20	--	--	--	--	--	--
16...	0905	--	--	140	59	0.9	35	12	1.2
16...	0910	--	--	30	13	0.8	57	20	1.6
JUL									
31...	0920	2.60	0	--	--	--	--	--	--
31...	0925	--	--	<5	0.82	1.2	48	17	1.4
31...	0930	--	--	120	110	1.3	37	13	1.2

WHITE RIVER BASIN--CONTINUED

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS, ARKANSAS--CONTINUED
(LAT 36°19'57" LONG 094°01'08")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
JAN									
10...	1305	54	0.120	<0.020	0.010	30	<1	<10	<1
10...	1310	54	0.130	<0.020	0.010	60	<1	<10	1
MAY									
16...	0905	30	0.470	0.170	0.090	760	1	<10	<1
16...	0910	48	0.550	0.120	0.020	300	<1	<10	<1
JUL									
31...	0925	42	0.150	<0.020	<0.010	80	<1	1	1
31...	0930	36	0.510	0.120	0.100	1600	3	5	31

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN									
10...	1301	--	--	--	--	--	--	2.20	<0.10Q
10...	1305	130	<1	40	<0.10	<1	<10	--	--
10...	1310	130	<1	80	<0.10	<1	<10	--	--
MAY									
16...	0901	--	--	--	--	--	--	0.700	<0.100
16...	0905	2300	<1	70	<0.10	2	10	--	--
16...	0910	520	<1	90	<0.10	<1	10	--	--
JUL									
31...	0921	--	--	--	--	--	--	2.00	0.300
31...	0925	40	1	20	<0.10	<1	<10	--	--
31...	0930	3400	2	1500	<0.10	4	30	--	--

07049570 BEAVER LAKE ON PRAIRIE CREEK NEAR ROGERS, ARKANSAS
(LAT 36°20'48" LONG 094°04'57")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
10.	1220	80513	80020	0.0	--	--	--	--	--
10.	1225	80513	80020	3.00	166	8.0	5.5	13.4	110
MAY									
16.	0940	80513	80020	0.0	--	--	--	--	--
16.	0941	80513	80020	3.00	--	--	--	--	--
16.	0945	80513	81213	4.00	114	7.5	19.0	10.0	113
JUL									
31.	1005	80513	81213	0.0	--	--	--	--	--
31.	1010	80513	81213	3.00	109	8.5	27.5	8.4	110

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
10.	1220	1.20	0	--	--	--	--	--
10.	1225	--	--	<5	1.2	2.3	71	26
MAY								
16.	0940	0.55	7	--	--	--	--	--
16.	0945	--	--	20	14	1.6	48	17
JUL								
31.	1005	1.40	12	--	--	--	--	--
31.	1010	--	--	5	2.0	1.6	51	18

WHITE RIVER BASIN--CONTINUED

07049570 BEAVER LAKE ON PRAIRIE CREEK NEAR ROGERS, ARKANSAS--CONTINUED
(LAT 36°20'48" LONG 094°04'57")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
10.	1225	1.5	44	0.320	<0.020	0.010	3.20	<0.100
MAY								
16.	0941	--	--	--	--	--	6.90	0.200
16.	0945	1.3	40	0.500	0.090	0.020	--	--
JUL								
31.	1010	1.4	42	0.050	0.020	0.010	2.20	0.200

07049590 BEAVER LAKE NEAR AVOCA, ARKANSAS
(LAT 36°22'10" LONG 094°03'38")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
10...	1210	80513	80020	3.00	142	8.1	6.0	13.2	110
11...	1205	80513	80020	0.0	--	--	--	--	--
MAY									
16...	0925	80513	80020	0.0	--	--	--	--	--
16...	0926	80513	80020	3.00	--	--	--	--	--
16...	0930	80513	81213	6.00	114	7.5	20.5	9.7	113
JUL									
31...	0950	80513	81213	0.0	--	--	--	--	--
31...	0951	80513	80020	3.00	--	--	--	--	--
31...	0955	80513	81213	7.00	106	8.9	27.0	8.9	116

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JAN									
10...	1210	--	10	5	1.2	1.4	61	22	1.5
11...	1205	1.30	0	--	--	--	--	--	--
MAY									
16...	0925	0.55	22	--	--	--	--	--	--
16...	0930	--	--	30	20	2.3	50	18	1.3
JUL									
31...	0950	2.20	1	--	--	--	--	--	--
31...	0955	--	--	<5	0.74	1.4	48	17	1.4

DATE	TIME	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
JAN									
10...	1210	52	0.130	<0.020	0.010	30	<1	<10	1
MAY									
16...	0930	44	0.450	0.070	0.020	270	<1	<10	<1
JUL									
31...	0955	42	0.040	<0.020	0.010	20	<1	1	1

WHITE RIVER BASIN--CONTINUED

07049590 BEAVER LAKE NEAR AVOCA, ARKANSAS--CONTINUED
(LAT 36°22'10" LONG 094°03'38")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN									
10...	1210	100	<1	30	<0.10	<1	<10	3.80	<0.100
MAY									
16...	0926	--	--	--	--	--	--	14.0	1.00
16...	0930	370	<1	50	<0.10	<1	10	--	--
JUL									
31...	0951	--	--	--	--	--	--	2.30	0.300
31...	0955	30	<1	10	<0.10	<1	<10	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, ARKANSAS
(LAT 36°25'15" LONG 093°50'50")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
10...	1010	80513	80020	0.0	--	--	--	--	--
10...	1011	80513	80020	3.00	--	--	--	--	--
10...	1015	80513	81213	25.0	129	7.6	6.5	11.3	95
10...	1020	80513	81213	100	128	7.5	6.0	9.9	82
MAY									
15...	1345	80513	80020	0.0	--	--	--	--	--
15...	1346	80513	80020	3.00	--	--	--	--	--
15...	1350	80513	81213	25.0	121	7.7	16.5	9.4	101
15...	1355	80513	81213	100	130	7.6	11.0	8.9	85
JUL									
31...	1150	80513	81213	0.0	--	--	--	--	--
31...	1151	80513	80020	3.00	--	--	--	--	--
31...	1155	80513	81213	25.0	121	7.3	21.5	3.1	36
31...	1200	80513	81213	100	126	7.4	12.0	6.5	62

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
JAN									
10...	1010	4.80	0	--	--	--	--	--	--
10...	1015	--	--	<5	0.46	1.0	61	21	2.0
10...	1020	--	--	<5	0.41	2.9	55	19	1.8
MAY									
15...	1345	2.10	0	--	--	--	--	--	--
15...	1350	--	--	10	5.2	1.0	54	19	1.7
15...	1355	--	--	<5	1.0	0.7	57	20	1.8
JUL									
31...	1150	3.30	0	--	--	--	--	--	--
31...	1155	--	--	5	0.46	1.5	57	20	1.8
31...	1200	--	--	5	1.8	1.3	60	21	1.8

WHITE RIVER BASIN--CONTINUED

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, ARKANSAS--CONTINUED
(LAT 36°25'15" LONG 093°50'50")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
JAN									
10...	1015	50	0.250	<0.020	0.010	20	<1	<10	<1
10...	1020	52	0.260	<0.020	0.010	20	<1	<10	<1
MAY									
15...	1350	47	0.460	<0.010	0.010	140	<1	<10	<1
15...	1355	53	0.340	<0.010	0.010	80	<1	<10	<1
JUL									
31...	1155	54	0.240	<0.020	<0.010	20	<1	1	<1
31...	1200	48	0.590	<0.020	<0.010	80	<1	1	1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN									
10...	1011	--	--	--	--	--	--	2.20	<0.100
10...	1015	70	<1	20	<0.10	<1	10	--	--
10...	1020	110	<1	20	<0.10	<1	<10	--	--
MAY									
15...	1346	--	--	--	--	--	--	1.80	<0.100
15...	1350	170	<1	10	<0.10	<1	<10	--	--
15...	1355	70	<1	10	<0.10	<1	<10	--	--
JUL									
31...	1151	--	--	--	--	--	--	1.70	0.100
31...	1155	10	<1	<10	<0.10	<1	10	--	--
31...	1200	80	<1	<10	<0.10	<1	<10	--	--

07049691 WHITE RIVER AT BEAVER DAM NEAR EUREKA SPRINGS, ARKANSAS
(LAT 36°25'15" LONG 093°50'51")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)
JAN											
10...	0945	80513	81213	135	8.1	3.5	12.5	97	66	<5	1.2
MAY											
15...	1410	80513	81213	132	7.7	11.0	9.6	91	1	5	2.0
JUL											
31...	1130	80513	81213	114	7.7	14.5	9.1	91	1	5	1.8

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)
JAN										
10...	0945	1.2	59	20	2.3	66	0.210	0.030	0.010	20
MAY										
15...	1410	0.7	52	18	1.7	52	0.280	0.010	0.010	90
JUL										
31...	1130	1.3	64	22	2.2	88	0.480	0.020	0.010	100

WHITE RIVER BASIN--CONTINUED

07049691 WHITE RIVER AT BEAVER DAM NEAR EUREKA SPRINGS, ARKANSAS--CONTINUED
(LAT 36°25'15" LONG 093°50'51")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
JAN										
10...	0945	<1	<10	1	140	<1	30	<0.10	1	10
MAY										
15...	1410	<1	<10	<1	100	<1	30	<0.10	<1	<10
JUL										
31...	1130	<1	1	1	110	<1	30	<0.10	1	<10

07050080 TABLE ROCK LAKE NEAR EAGLE ROCK, MISSOURI
(LAT 36°31'22" LONG 093°43'26")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
10.	0900	80513	80020	0.0	--	--	--	--	--
10.	0901	80513	80020	3.00	--	--	--	--	--
10.	0905	80513	81213	9.00	194	8.4	2.5	14.0	105
10.	0910	80513	81213	36.0	196	8.4	2.5	14.0	105
MAY									
15.	1245	80513	80020	0.0	--	--	--	--	--
15.	1246	80513	80020	3.00	--	--	--	--	--
15.	1250	80513	81213	15.0	132	7.8	14.5	10.5	107
15.	1255	80513	81213	60.0	133	7.6	13.0	9.3	92
JUL									
31.	1305	80513	81213	0.0	--	--	--	--	--
31.	1306	80513	80020	3.00	--	--	--	--	--
31.	1310	80513	81213	12.0	185	8.8	28.0	8.7	115
31.	1315	80513	81213	48.0	153	7.5	17.5	3.9	42

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
10.	0900	1.90	0	--	--	--	--	--
10.	0905	--	--	<5	2.0	2.0	92	27
10.	0910	--	--	<5	3.2	2.1	94	28
MAY								
15.	1245	2.00	4	--	--	--	--	--
15.	1250	--	--	5	2.0	1.3	66	22
15.	1255	--	--	5	3.0	1.0	61	21
JUL								
31.	1305	2.70	0	--	--	--	--	--
31.	1310	--	--	<5	0.86	1.8	95	28
31.	1315	--	--	5	3.5	1.1	76	25

WHITE RIVER BASIN--CONTINUED

07050080 TABLE ROCK LAKE NEAR EAGLE ROCK, MISSOURI--CONTINUED
(LAT 36°31'22" LONG 093°43'26")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
10.	0901	--	--	--	--	--	4.40	<0.100
10.	0905	5.9	94	0.090	<0.020	0.010	--	--
10.	0910	5.8	94	0.090	<0.020	0.010	--	--
MAY								
15.	1246	--	--	--	--	--	2.60	<0.100
15.	1250	2.7	52	0.320	0.010	<0.010	--	--
15.	1255	2.1	56	0.360	<0.010	<0.010	--	--
JUL								
31.	1306	--	--	--	--	--	2.30	0.300
31.	1310	6.0	84	0.040	0.020	0.010	--	--
31.	1315	3.3	70	0.330	0.020	0.010	--	--

07050510 TABLE ROCK LAKE (KINGS RIVER) NEAR CARR LANE, MISSOURI
(LAT 36°30'08" LONG 093°36'00")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
10.	0840	80513	80020	0.0	--	--	--	--	--
10.	0841	80513	80020	2.00	327	8.3	4.0	14.3	112
10.	0845	80513	81213	3.00	--	--	--	--	--
10.	0850	80513	81213	7.00	329	8.3	4.0	14.2	112
MAY									
15.	1205	80513	80020	0.0	--	--	--	--	--
15.	1206	80513	80020	3.00	--	--	--	--	--
15.	1210	80513	81213	6.00	211	7.7	17.5	8.2	89
15.	1215	80513	81213	26.0	227	7.7	16.5	8.4	90
JUL									
31.	1355	80513	81213	0.0	--	--	--	--	--
31.	1356	80513	80020	3.00	--	--	--	--	--
31.	1400	80513	81213	5.00	276	8.6	29.0	9.7	130
31.	1405	80513	81213	19.0	368	7.3	23.5	0.7	9

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
10.	0840	1.30	0	--	--	--	--	--
10.	0841	--	--	<5	2.4	1.2	140	38
10.	0850	--	--	<5	1.9	1.4	140	38
MAY								
15.	1205	1.10	71	--	--	--	--	--
15.	1210	--	--	5	2.5	0.7	110	32
15.	1215	--	--	5	5.8	0.9	110	33
JUL								
31.	1355	1.10	0	--	--	--	--	--
31.	1400	--	--	5	2.5	3.5	140	37
31.	1405	--	--	5	2.1	3.1	140	37

WHITE RIVER BASIN--CONTINUED

07050510 TABLE ROCK LAKE (KINGS RIVER) NEAR CARR LANE, MISSOURI--CONTINUED
(LAT 36°30'08" LONG 093°36'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
10.	0841	12	148	0.171	0.350	0.370	--	--
10.	0845	--	--	--	--	--	0.200	0.100
10.	0850	12	150	0.170	0.380	0.370	--	--
MAY								
15.	1206	--	--	--	--	--	0.300	<0.100
15.	1210	6.5	96	0.680	0.030	0.020	--	--
15.	1215	7.6	106	0.810	0.050	0.030	--	--
JUL								
31.	1356	--	--	--	--	--	25.0	2.00
31.	1400	11	136	0.030	0.060	0.010	--	--
31.	1405	12	134	0.030	0.060	0.010	--	--

07050530 TABLE ROCK LAKE NEAR LAMPE, MISSOURI
(LAT 36°34'20" LONG 093°31'25")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
10.	0850	80513	80020	0.0	--	--	--	--	--
10.	0851	80513	80020	3.00	--	--	--	--	--
10.	0855	80513	81213	27.0	182	7.7	6.0	11.7	95
10.	0900	80513	81213	108	183	7.8	5.0	11.1	89
MAY									
15.	1110	80513	80020	0.0	--	--	--	--	--
15.	1111	80513	80020	3.00	--	--	--	--	--
15.	1115	80513	81213	31.0	148	7.7	15.0	8.9	92
15.	1120	80513	81213	124	162	7.5	10.5	8.0	74
AUG									
01.	1155	80513	81213	0.0	--	--	--	--	--
01.	1156	80513	80020	3.00	--	--	--	--	--
01.	1200	80513	81213	19.0	197	8.4	27.0	7.8	101
01.	1205	80513	81213	116	152	7.4	13.5	0.9	9

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
10.	0850	3.10	0	--	--	--	--	--
10.	0855	--	--	<5	0.73	1.3	86	26
10.	0900	--	--	<5	1.5	1.0	93	28
MAY								
15.	1110	2.50	1	--	--	--	--	--
15.	1115	--	--	10	3.8	1.0	78	25
15.	1120	--	--	5	1.8	0.7	78	25
AUG								
01.	1155	2.20	0	--	--	--	--	--
01.	1200	--	--	5	0.36	1.4	97	30
01.	1205	--	--	10	2.2	0.8	74	24

WHITE RIVER BASIN--CONTINUED

07050530 TABLE ROCK LAKE NEAR LAMPE, MISSOURI--CONTINUED
(LAT 36°34'20" LONG 093°31'25")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
10.	0851	--	--	--	--	--	0.900	<0.100
10.	0855	5.1	90	0.110	<0.020	0.010	--	--
10.	0900	5.5	90	0.100	<0.020	0.010	--	--
MAY								
15.	1111	--	--	--	--	--	3.60	<0.100
15.	1115	3.9	72	0.260	0.030	0.010	--	--
15.	1120	3.9	72	0.320	0.010	0.010	--	--
AUG								
01.	1156	--	--	--	--	--	2.40	0.200
01.	1200	5.4	90	0.020	<0.020	0.010	--	--
01.	1205	3.4	66	0.450	<0.020	0.010	--	--

07052910 TABLE ROCK LAKE (JAMES RIVER ARM) AT CAPE FAIR, MISSOURI
(LAT 36°43'24" LONG 093°29'35")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
09.	1150	80513	80020	0.0	--	--	--	--	--
09.	1151	80513	80020	3.00	--	--	--	--	--
09.	1155	80513	81213	7.00	300	9.0	5.0	11.9	96
09.	1200	80513	81213	28.0	515	8.6	3.5	12.2	95
MAY									
15.	0900	80513	80020	0.0	--	--	--	--	--
15.	0901	80513	80020	3.00	--	--	--	--	--
15.	0905	80513	81213	10.0	280	7.9	16.5	8.9	95
15.	0910	80513	81213	40.0	307	7.8	15.0	7.5	77
AUG									
01.	1425	80513	81213	0.0	--	--	--	--	--
01.	1426	80513	80020	3.00	--	--	--	--	--
01.	1430	80513	81213	10.0	259	7.6	27.5	3.8	50
01.	1435	80513	81213	40.0	340	7.4	18.5	0.4	4

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
09.	1150	1.90	0	--	--	--	--	--
09.	1155	--	--	<5	0.86	1.6	140	43
09.	1200	--	--	<5	1.3	1.3	170	57
MAY								
15.	0900	1.60	11	--	--	--	--	--
15.	0905	--	--	5	1.8	1.5	140	46
15.	0910	--	--	5	3.6	0.9	150	51
AUG								
01.	1425	0.98	1	--	--	--	--	--
01.	1430	--	--	5	2.6	2.1	100	33
01.	1435	--	--	20	5.9	2.3	160	54

WHITE RIVER BASIN--CONTINUED

07052910 TABLE ROCK LAKE (JAMES RIVER ARM) AT CAPE FAIR, MISSOURI--CONTINUED
(LAT 36°43'24" LONG 093°29'35")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	1151	--	--	--	--	--	4.90	0.100
09.	1155	7.0	112	0.020	0.050	0.010	--	--
09.	1200	7.8	114	1.30	0.420	0.420	--	--
MAY								
15.	0901	--	--	--	--	--	2.90	0.600
15.	0905	4.9	128	1.50	0.080	0.060	--	--
15.	0910	5.1	132	1.60	0.120	0.090	--	--
AUG								
01.	1426	--	--	--	--	--	32.0	7.70
01.	1430	5.2	94	0.050	0.060	0.020	--	--
01.	1435	5.5	156	0.030	0.200	0.130	--	--

07052920 TABLE ROCK LAKE (JAMES RIVER ARM) NEAR KIMBERLING CITY, MISSOURI
(LAT 36°38'23" LONG 093°29'27")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
09.	1245	80513	80020	0.0	--	--	--	--	--
09.	1246	80513	80020	3.00	--	--	--	--	--
09.	1250	80513	81213	28.0	213	8.1	6.5	10.1	85
09.	1255	80513	81213	112	279	7.9	6.0	9.6	80
MAY									
15.	1010	80513	80020	0.0	--	--	--	--	--
15.	1011	80513	80020	3.00	--	--	--	--	--
15.	1015	80513	81213	32.0	223	8.1	16.0	9.1	96
15.	1020	80513	81213	128	281	7.6	11.0	5.0	47
AUG									
01.	1300	80513	81213	0.0	--	--	--	--	--
01.	1301	80513	80020	3.00	--	--	--	--	--
01.	1305	80513	81213	30.0	297	7.4	22.5	0.2	2
01.	1310	80513	81213	120	250	7.9	14.0	0.3	3

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
09.	1245	4.20	0	--	--	--	--	--
09.	1250	--	--	<5	0.60	0.6	110	33
09.	1255	--	--	<5	2.3	0.5	130	40
MAY								
15.	1010	2.20	25	--	--	--	--	--
15.	1015	--	--	5	1.0	0.9	110	37
15.	1020	--	--	5	0.97	0.8	130	43
AUG								
01.	1300	1.90	0	--	--	--	--	--
01.	1305	--	--	5	0.48	1.9	110	37
01.	1310	--	--	5	1.8	1.1	120	39

WHITE RIVER BASIN--CONTINUED

07052920 TABLE ROCK LAKE (JAMES RIVER ARM) NEAR KIMBERLING CITY, MISSOURI--CONTINUED
(LAT 36°38'23" LONG 093°29'27")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	1246	--	--	--	--	--	3.50	<0.100
09.	1250	5.5	90	0.150	<0.020	0.010	--	--
09.	1255	6.5	90	0.130	0.020	0.010	--	--
MAY								
15.	1011	--	--	--	--	--	5.00	1.40
15.	1015	5.3	82	0.570	0.020	0.010	--	--
15.	1020	4.8	118	1.70	0.060	0.060	--	--
AUG								
01.	1301	--	--	--	--	--	3.90	0.200
01.	1305	5.2	102	0.070	0.030	0.010	--	--
01.	1310	4.5	102	0.730	0.080	0.060	--	--

07053320 TABLE ROCK LAKE (LONG CREEK ARM) NEAR RIDGEDALE, MISSOURI
(LAT 36°31'39" LONG 093°18'10")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
09.	0920	80513	80020	0.0	--	--	--	--	--
09.	0921	80513	80020	3.00	--	--	--	--	--
09.	0925	80513	81213	21.0	206	8.1	6.5	12.2	103
09.	0930	80513	81213	84.0	225	7.9	5.5	11.0	90
MAY									
14.	1340	80513	80020	0.0	--	--	--	--	--
14.	1341	80513	80020	3.00	--	--	--	--	--
14.	1345	80513	81213	24.0	214	8.5	16.0	10.2	107
14.	1350	80513	81213	96.0	221	7.8	12.0	6.8	65
AUG									
01.	1035	80513	81213	0.0	--	--	--	--	--
01.	1036	80513	80020	3.00	--	--	--	--	--
01.	1040	80513	81213	22.0	210	8.0	25.5	3.7	47
01.	1045	80513	81213	88.0	224	7.5	14.5	0.4	4

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
09.	0920	3.60	0	--	--	--	--	--
09.	0925	--	--	<5	0.80	0.5	110	34
09.	0930	--	--	<5	1.2	0.5	110	35
MAY								
14.	1340	2.80	0	--	--	--	--	--
14.	1345	--	--	<5	0.59	1.2	98	32
14.	1350	--	--	5	6.7	0.9	100	35
AUG								
01.	1035	2.80	0	--	--	--	--	--
01.	1040	--	--	5	2.0	1.2	110	39
01.	1045	--	--	5	0.54	0.9	93	29

WHITE RIVER BASIN--CONTINUED

07053320 TABLE ROCK LAKE (LONG CREEK ARM) NEAR RIDGEDALE, MISSOURI--CONTINUED
(LAT 36°31'39" LONG 093°18'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	0921	--	--	--	--	--	2.80	<0.100
09.	0925	5.3	92	0.140	<0.020	0.010	--	--
09.	0930	5.2	92	0.120	<0.020	0.010	--	--
MAY								
14.	1341	--	--	--	--	--	1.70	<0.100
14.	1345	4.4	90	0.380	0.010	<0.010	--	--
14.	1350	4.1	100	0.740	0.030	0.020	--	--
AUG								
01.	1036	--	--	--	--	--	2.80	0.200
01.	1040	3.4	86	0.910	0.020	0.010	--	--
01.	1045	5.0	98	0.020	<0.020	0.010	--	--

07053700 LAKE TANEYCOMO AT BRANSON, MISSOURI
(LAT 36°38'09" LONG 093°15'52")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
09.	1450	80513	80020	0.0	--	--	--	--	--
09.	1455	80513	80020	3.00	210	7.9	6.5	12.7	106
09.	1500	80513	81213	12.0	209	7.8	6.5	12.2	102
MAY									
14.	1540	80513	80020	0.0	--	--	--	--	--
14.	1541	80513	80020	3.00	--	--	--	--	--
14.	1545	80513	81213	4.00	211	7.8	12.5	9.1	88
14.	1550	80513	81213	16.0	211	7.8	12.5	9.0	87
AUG									
01.	1550	80513	81213	0.0	--	--	--	--	--
01.	1555	80513	81213	3.00	193	7.6	15.5	6.2	64
01.	1600	80513	81213	13.0	192	7.6	15.0	5.5	56

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
09.	1450	2.80	5	--	--	--	--	--
09.	1455	--	--	<5	1.2	0.2	110	33
09.	1500	--	--	<5	1.2	0.2	110	33
MAY								
14.	1540	4.40	3	--	--	--	--	--
14.	1545	--	--	<5	0.64	0.7	90	28
14.	1550	--	--	<5	0.48	0.7	97	30
AUG								
01.	1550	2.70	30	--	--	--	--	--
01.	1555	--	--	5	1.2	0.9	89	29
01.	1600	--	--	10	1.3	0.8	92	30

WHITE RIVER BASIN--CONTINUED

07053700 LAKE TANEYCOMO AT BRANSON, MISSOURI--CONTINUED
(LAT 36°38'09" LONG 093°15'52")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	1455	5.6	96	0.170	<0.020	0.010	1.10	<0.100
09.	1500	5.5	96	0.170	<0.020	0.010	--	--
MAY								
14.	1541	--	--	--	--	--	0.600	<0.100
14.	1545	4.8	88	0.480	0.020	0.010	--	--
14.	1550	5.4	88	0.480	0.040	0.010	--	--
AUG								
01.	1555	4.0	80	0.560	0.030	0.020	0.300	<0.100
01.	1600	4.2	86	0.530	0.020	0.020	--	--

07053830 BULL SHOALS LAKE AT FORSYTH, MISSOURI
(LAT 36°40'17" LONG 093°07'10")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
09.	1020	80513	80020	0.0	--	--	--	--	--
09.	1021	80513	80020	5.00	--	--	--	--	--
09.	1025	80513	81213	5.00	215	8.2	4.0	13.5	106
MAY									
15.	0740	80513	80020	0.0	--	--	--	--	--
15.	0741	80513	80020	3.00	--	--	--	--	--
15.	0745	80513	81213	17.0	214	7.3	13.0	11.8	115
AUG									
02.	0750	80513	81213	0.0	--	--	--	--	--
02.	0751	80513	80020	3.00	--	--	--	--	--
02.	0755	80513	81213	18.0	230	7.9	25.0	6.7	83

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
09.	1020	1.90	0	--	--	--	--	--
09.	1025	--	--	<5	2.9	0.9	110	35
MAY								
15.	0740	1.80	17	--	--	--	--	--
15.	0745	--	--	<5	2.0	0.6	100	31
AUG								
02.	0750	1.20	1	--	--	--	--	--
02.	0755	--	--	5	2.4	1.4	110	30

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	1021	--	--	--	--	--	4.80	<0.100
09.	1025	6.1	94	0.180	<0.020	0.010	--	--
MAY								
15.	0741	--	--	--	--	--	0.400	<0.100
15.	0745	5.9	82	0.480	0.010	0.010	--	--
AUG								
02.	0751	--	--	--	--	--	10.0	0.900
02.	0755	9.3	104	0.090	0.040	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054220 BULL SHOALS LAKE ON FOX CREEK NEAR MISSOURI-ARKANSAS STATE LINE
(LAT 36°30'05" LONG 093°03'26")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
09.	0750	80513	80020	0.0	--	--	--	--	--
09.	0751	80513	80020	3.00	--	--	--	--	--
09.	0755	80513	81213	6.00	221	8.4	4.5	14.0	111
MAY									
14.	1200	80513	80020	0.0	--	--	--	--	--
14.	1201	80513	80020	3.00	--	--	--	--	--
14.	1205	80513	81213	20.0	242	7.7	14.0	9.7	96
AUG									
02.	1055	80513	81213	0.0	--	--	--	--	--
02.	1056	80513	80020	3.00	--	--	--	--	--
02.	1100	80513	81213	21.0	256	7.6	26.0	1.1	14

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
09.	0750	2.80	0	--	--	--	--	--
09.	0755	--	--	<5	0.53	0.9	120	34
MAY								
14.	1200	1.80	21	--	--	--	--	--
14.	1205	--	--	5	1.7	0.7	120	31
AUG								
02.	1055	2.00	0	--	--	--	--	--
02.	1100	--	--	5	0.87	0.8	130	34

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
09.	0751	--	--	--	--	--	3.30	<0.100
09.	0755	7.6	86	0.180	<0.020	0.010	--	--
MAY								
14.	1201	--	--	--	--	--	3.40	<0.100
14.	1205	9.3	120	0.190	0.030	<0.010	--	--
AUG								
02.	1056	--	--	--	--	--	4.30	0.500
02.	1100	10	108	<0.020	0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054460 BULL SHOALS LAKE NEAR BUCK CREEK, ARKANSAS
(LAT 36°29'25" LONG 092°47'15")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
03.	1005	80513	80020	0.0	--	--	--	--	--
03.	1006	80513	80020	3.00	--	--	--	--	--
03.	1010	80513	81213	27.0	245	8.2	6.5	11.6	96
03.	1015	80513	81213	108	243	8.0	6.5	10.7	89
MAY									
08.	1205	80513	80020	0.0	--	--	--	--	--
08.	1206	80513	80020	3.00	--	--	--	--	--
08.	1210	80513	81213	32.0	242	8.4	15.5	10.3	106
08.	1215	80513	81213	128	239	7.9	9.5	9.0	81
AUG									
02.	0925	80513	81213	0.0	--	--	--	--	--
02.	0926	80513	80020	3.00	--	--	--	--	--
02.	0930	80513	81213	32.0	218	7.3	19.0	2.8	31
02.	0935	80513	81213	128	235	7.4	13.0	3.2	31

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
03.	1005	3.50	0	--	--	--	--	--
03.	1010	--	--	<5	0.75	1.1	120	34
03.	1015	--	--	<5	1.6	0.7	120	34
MAY								
08.	1205	4.30	1	--	--	--	--	--
08.	1210	--	--	<5	0.38	0.9	120	33
08.	1215	--	--	<5	0.45	0.8	120	34
AUG								
02.	0925	3.20	1	--	--	--	--	--
02.	0930	--	--	5	0.46	1.3	120	35
02.	0935	--	--	5	0.46	1.9	120	34

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
03.	1006	--	--	--	--	--	3.30	<0.100
03.	1010	9.3	116	0.140	<0.020	<0.010	--	--
03.	1015	9.5	118	0.140	<0.020	<0.010	--	--
MAY								
08.	1206	--	--	--	--	--	1.30	<0.100
08.	1210	9.0	120	0.170	<0.020	<0.010	--	--
08.	1215	8.0	104	0.310	<0.020	0.010	--	--
AUG								
02.	0926	--	--	--	--	--	3.20	0.200
02.	0930	7.9	114	0.080	<0.020	0.010	--	--
02.	0935	7.5	98	0.520	<0.020	0.020	--	--

WHITE RIVER BASIN--CONTINUED

07054471 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (FISH PENS")
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
08...	1320	80513	80020	0.0	248	8.1	7.5	11.7	100
08...	1321	80513	80020	3.00	248	8.1	7.5	11.3	97
08...	1322	80513	80020	10.0	247	8.1	7.0	11.3	96
08...	1323	80513	81213	13.0	248	8.1	7.0	11.1	94
08...	1324	80513	80020	20.0	247	8.1	7.0	10.9	92
08...	1325	80513	80020	30.0	247	8.1	7.0	10.8	92
08...	1326	80513	80020	40.0	247	8.1	7.0	10.7	91
08...	1327	80513	80020	50.0	249	8.1	7.0	10.7	91
08...	1328	80513	81213	52.0	248	8.1	7.0	10.6	90
08...	1329	80513	80020	60.0	248	8.0	7.0	10.6	90
08...	1330	80513	80020	65.0	246	8.0	7.0	10.5	89

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN									
08...	1320	3.20	1	--	126	--	--	--	--
08...	1323	--	--	<5	--	0.72	1.0	130	37
08...	1328	--	--	<5	--	0.81	0.9	130	36

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
08...	1321	--	--	--	--	--	3.80	<0.100
08...	1323	10	112	0.120	<0.020	0.010	--	--
08...	1328	10	112	0.120	0.020	0.010	--	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY									
08...	0910	80513	80020	0.0	241	8.7	17.5	11.8	126
08...	0912	80513	80020	3.00	241	8.7	17.5	11.5	123
08...	0914	80513	80020	10.0	241	8.7	17.5	11.3	121
08...	0916	80513	80020	16.0	241	8.6	16.5	11.1	116
08...	0918	80513	80020	20.0	240	8.6	16.0	11.1	115
08...	0920	80513	81213	21.0	240	8.6	16.0	10.8	112
08...	0922	80513	80020	30.0	242	8.4	15.0	9.7	98
08...	0924	80513	80020	34.0	241	8.2	14.0	9.7	96
08...	0926	80513	80020	40.0	245	8.2	13.0	9.8	95
08...	0928	80513	80020	50.0	243	8.1	12.0	9.6	91
08...	0930	80513	80020	60.0	243	8.0	11.5	8.8	83
08...	0932	80513	80020	70.0	242	8.0	11.0	9.0	84
08...	0934	80513	80020	80.0	242	7.9	11.0	8.0	74
08...	0936	80513	81213	84.0	242	7.8	11.0	6.7	62
08...	0938	80513	80020	90.0	245	7.7	10.5	5.7	52
08...	0940	80513	80020	100	247	7.6	10.0	4.5	41
08...	0942	80513	80020	105	247	7.6	10.0	4.5	41

WHITE RIVER BASIN--CONTINUED

07054471 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (FISH PENS")--CONTINUED
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
MAY									
08...	0910	3.90	3	--	155	--	--	--	--
08...	0920	--	--	<5	--	0.46	1.0	20	120
08...	0936	--	--	<5	--	0.36	0.7	<10	120

DATE	TIME	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
MAY									
08...	0912	--	--	--	--	--	--	1.30	<0.100
08...	0920	33	10	106	0.110	<0.020	<0.010	--	--
08...	0936	34	8.6	114	0.260	<0.020	<0.010	--	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG									
07...	0820	80513	80020	0.0	252	8.4	26.5	7.5	95
07...	0821	80513	80020	3.00	251	8.4	27.0	7.3	93
07...	0822	80513	80020	10.0	253	8.4	27.0	7.2	92
07...	0823	80513	81213	19.0	253	8.3	27.0	6.8	87
07...	0824	80513	80020	20.0	254	8.3	26.5	6.4	81
07...	0825	80513	80020	26.0	254	8.0	25.5	3.9	48
07...	0826	80513	80020	27.0	256	7.6	24.5	1.5	18
07...	0827	80513	80020	28.0	255	7.5	24.0	0.8	10
07...	0828	80513	80020	30.0	255	7.4	23.0	0.3	4
07...	0829	80513	80020	32.0	251	7.3	21.5	0.2	2
07...	0830	80513	80020	34.0	248	7.3	20.0	0.2	2
07...	0831	80513	80020	35.0	248	7.3	19.0	0.2	2
07...	0832	80513	80020	36.0	242	7.2	18.5	0.1	1
07...	0833	80513	80020	40.0	236	7.2	18.0	0.2	2
07...	0834	80513	80020	45.0	237	7.2	17.5	0.3	3
07...	0835	80513	80020	50.0	232	7.2	16.5	1.2	12
07...	0836	80513	80020	60.0	229	7.2	16.0	2.0	21
07...	0837	80513	80020	70.0	232	7.3	15.5	1.9	19
07...	0838	80513	81213	76.0	231	7.3	15.5	2.4	24
07...	0839	80513	80020	80.0	230	7.3	15.5	1.7	17
07...	0840	80513	80020	90.0	235	7.3	15.0	0.4	4
07...	0841	80513	80020	95.0	237	7.2	15.0	0.2	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
AUG									
07...	0820	3.10	31	--	122	--	--	--	--
07...	0823	--	--	<5	--	0.52	0.8	<10	130
07...	0838	--	--	5	--	0.30	0.4	<10	120

WHITE RIVER BASIN--CONTINUED

07054471 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (FISH PENS")--CONTINUED
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
AUG									
07...	0821	--	--	--	--	--	--	1.80	<0.100
07...	0823	35	11	126	0.020	<0.020	0.010	--	--
07...	0838	34	8.0	114	0.400	<0.020	<0.010	--	--

07054472 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (LOG BOOM")
(LAT 36°25'30" LONG 092°42'00")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
08...	1300	80513	80020	0.0	249	8.1	7.5	11.4	98
08...	1301	80513	80020	3.00	249	8.1	7.5	11.2	96
08...	1302	80513	81213	10.0	249	8.1	7.0	11.1	94
08...	1303	80513	80020	20.0	248	8.1	7.0	11.0	93
08...	1304	80513	80020	30.0	248	8.1	7.0	10.9	92
08...	1305	80513	81213	38.0	247	8.1	7.0	10.8	92
08...	1306	80513	80020	40.0	247	8.1	7.0	10.8	92
08...	1307	80513	80020	47.0	248	8.1	7.0	10.7	91

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN									
08...	1300	3.10	0	--	122	--	--	--	--
08...	1302	--	--	<5	--	0.83	0.8	130	36
08...	1305	--	--	<5	--	0.74	0.7	130	36

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
08...	1301	--	--	--	--	--	3.10	<0.100
08...	1302	10	114	0.130	<0.020	0.010	--	--
08...	1305	10	114	0.130	<0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054472 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (LOG BOOM")--CONTINUED
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY									
08...	0825	80513	80020	0.0	242	8.7	17.5	11.1	119
08...	0827	80513	80020	3.00	241	8.6	17.5	11.0	118
08...	0829	80513	80020	10.0	240	8.6	17.5	11.0	118
08...	0831	80513	80020	20.0	242	8.6	16.5	11.2	117
08...	0833	80513	81213	23.0	241	8.5	16.0	10.6	110
08...	0835	80513	81213	30.0	241	8.4	15.5	10.0	103
08...	0837	80513	81213	35.0	242	8.3	14.5	9.7	97
08...	0839	80513	81213	40.0	243	8.2	13.0	9.7	94
08...	0841	80513	81213	50.0	244	8.1	12.0	9.7	92
08...	0843	80513	81213	60.0	241	8.0	11.5	8.9	84
08...	0845	80513	81213	70.0	241	8.0	11.0	9.4	87
08...	0847	80513	81213	80.0	242	8.0	11.0	9.1	84
08...	0849	80513	81213	90.0	242	7.9	10.5	7.7	71
08...	0851	80513	81213	92.0	242	7.8	10.5	6.8	62
08...	0853	80513	81213	100	243	7.7	10.0	6.5	59
08...	0855	80513	81213	110	246	7.8	10.0	6.4	58
08...	0857	80513	81213	115	243	7.7	10.0	6.3	57

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
MAY									
08...	0825	4.00	1	--	157	--	--	--	--
08...	0833	--	--	5	--	0.64	1.4	120	33
08...	0851	--	--	<5	--	0.26	0.8	120	33

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
MAY								
08...	0827	--	--	--	--	--	2.20	<0.100
08...	0833	10	112	0.090	<0.020	<0.010	--	--
08...	0851	8.8	116	0.270	<0.020	<0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054472 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (LOG BOOM")--CONTINUED
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG									
07...	0750	80513	80020	0.0	254	8.4	27.0	7.3	93
07...	0751	80513	80020	3.00	254	8.4	27.0	7.2	92
07...	0752	80513	80020	10.0	254	8.4	27.0	7.2	92
07...	0753	80513	80020	20.0	253	8.4	27.0	7.0	89
07...	0754	80513	81213	22.0	253	8.4	27.0	6.9	88
07...	0755	80513	80020	25.0	255	7.9	25.5	3.1	38
07...	0756	80513	80020	26.0	255	7.7	25.0	2.0	25
07...	0757	80513	80020	27.0	256	7.5	24.0	0.8	10
07...	0758	80513	80020	28.0	255	7.4	23.5	0.4	5
07...	0759	80513	80020	30.0	252	7.3	22.5	0.2	2
07...	0800	80513	80020	32.0	248	7.3	21.0	0.1	1
07...	0801	80513	80020	34.0	246	7.2	20.0	0.1	1
07...	0802	80513	80020	36.0	239	7.2	19.0	0.3	3
07...	0803	80513	80020	38.0	236	7.2	18.0	0.4	4
07...	0804	80513	80020	40.0	235	7.2	18.0	0.3	3
07...	0805	80513	80020	45.0	233	7.2	17.0	1.0	10
07...	0806	80513	80020	50.0	228	7.2	16.5	1.7	18
07...	0807	80513	80020	60.0	228	7.2	16.0	2.2	23
07...	0808	80513	80020	70.0	230	7.3	15.5	2.6	26
07...	0809	80513	80020	80.0	228	7.3	15.5	2.4	24
07...	0810	80513	81213	88.0	233	7.3	15.0	1.6	16
07...	0811	80513	80020	90.0	234	7.3	15.0	1.6	16
07...	0812	80513	80020	100	234	7.2	15.0	0.4	4
07...	0813	80513	80020	110	237	7.2	14.5	0.2	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
AUG									
07...	0750	2.90	6	--	115	--	--	--	--
07...	0754	--	--	<5	--	0.30	1.0	130	34
07...	0810	--	--	<5	--	0.30	1.0	120	33

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG								
07...	0751	--	--	--	--	--	2.10	0.100
07...	0754	11	118	<0.020	<0.020	<0.010	--	--
07...	0810	8.1	114	0.420	<0.020	<0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054474 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (MOUTH)
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
08...	1210	80513	80020	0.0	249	8.0	8.0	10.9	94
08...	1211	80513	80020	3.00	250	8.0	7.5	10.6	91
08...	1212	80513	80020	10.0	249	8.0	7.5	10.6	90
08...	1213	80513	80020	20.0	249	8.0	7.0	10.5	89
08...	1214	80513	81213	29.0	249	8.0	7.0	10.4	89
08...	1215	80513	80020	30.0	249	8.0	7.0	10.5	89
08...	1216	80513	80020	40.0	249	8.0	7.0	10.3	88
08...	1217	80513	80020	50.0	248	8.0	7.0	10.4	88
08...	1218	80513	80020	60.0	249	8.0	7.0	10.4	88
08...	1219	80513	80020	70.0	249	8.0	7.0	10.4	88
08...	1220	80513	80020	80.0	247	8.0	7.0	10.4	88
08...	1221	80513	80020	90.0	246	8.0	7.0	10.3	87
08...	1222	80513	80020	100	247	8.0	7.0	10.3	87
08...	1223	80513	80020	110	247	8.0	7.0	10.3	87
08...	1224	80513	81213	116	263	8.0	7.0	9.6	81
08...	1225	80513	80020	120	263	8.0	7.0	9.4	80
08...	1226	80513	80020	130	266	7.9	7.0	8.9	75
08...	1227	80513	80020	140	266	7.9	7.0	8.5	72
08...	1228	80513	80020	145	266	7.9	7.0	8.4	71

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN									
08...	1210	4.30	0	--	168	--	--	--	--
08...	1214	--	--	<5	--	0.61	0.6	130	36
08...	1224	--	--	<5	--	1.0	0.5	130	36

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
08...	1211	--	--	--	--	--	1.70	<0.100
08...	1214	10	118	0.140	<0.020	0.010	--	--
08...	1224	10	118	0.150	<0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054474 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (MOUTH)--CONTINUED
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY									
08...	0735	80513	80020	0.0	240	8.4	17.5	11.3	121
08...	0737	80513	80020	3.00	241	8.5	17.5	11.3	121
08...	0739	80513	80020	10.0	240	8.5	17.5	10.9	117
08...	0741	80513	80020	15.0	240	8.5	17.0	10.9	115
08...	0743	80513	80020	20.0	240	8.5	16.0	10.9	113
08...	0745	80513	80020	30.0	242	8.3	15.5	10.0	103
08...	0747	80513	81213	33.0	242	8.2	15.0	9.9	100
08...	0749	80513	80020	40.0	245	8.1	13.5	9.8	96
08...	0751	80513	80020	50.0	242	8.1	12.5	10.0	96
08...	0753	80513	80020	60.0	243	8.0	11.5	9.9	93
08...	0755	80513	80020	70.0	244	8.0	11.5	9.8	92
08...	0757	80513	80020	80.0	242	8.0	11.0	9.8	91
08...	0759	80513	80020	90.0	240	8.0	10.5	9.7	89
08...	0801	80513	80020	100	240	8.0	10.5	9.8	90
08...	0803	80513	80020	110	238	8.0	10.0	9.7	88
08...	0805	80513	80020	120	236	7.9	10.0	9.4	85
08...	0807	80513	80020	130	236	7.9	9.5	8.8	79
08...	0809	80513	81213	132	236	7.9	9.5	8.6	77
08...	0811	80513	80020	140	237	7.8	9.5	8.0	72
08...	0813	80513	80020	150	238	7.8	9.0	7.2	64
08...	0815	80513	80020	160	242	7.8	9.0	6.6	58
08...	0817	80513	80020	165	239	7.7	8.5	6.4	56

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
MAY									
08...	0735	4.90	1	--	192	--	--	--	--
08...	0747	--	--	<5	--	0.35	1.2	40	120
08...	0809	--	--	5	--	0.24	0.9	<10	120

DATE	TIME	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
MAY									
08...	0737	--	--	--	--	--	--	2.00	<0.100
08...	0747	33	9.2	114	0.130	<0.020	<0.010	--	--
08...	0809	34	8.2	106	0.270	<0.020	<0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054474 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, ARKANSAS (MOUTH)--CONTINUED
(LAT 36°25'30" LONG 092°42'00")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG									
07...	0710	80513	81213	0.0	253	8.4	26.5	7.4	93
07...	0711	80513	80020	3.00	253	8.4	26.5	7.4	93
07...	0712	80513	80020	10.0	253	8.4	26.5	7.3	92
07...	0713	80513	80020	20.0	253	8.4	26.5	7.2	91
07...	0714	80513	80020	27.0	255	7.8	25.5	2.8	35
07...	0715	80513	80020	28.0	254	7.6	24.5	1.6	19
07...	0716	80513	80020	29.0	255	7.5	23.5	1.0	12
07...	0717	80513	80020	30.0	250	7.3	22.0	0.3	3
07...	0718	80513	81213	32.0	244	7.3	21.0	0.2	2
07...	0719	80513	80020	34.0	241	7.2	20.0	0.4	4
07...	0720	80513	80020	36.0	233	7.2	19.0	0.7	8
07...	0721	80513	80020	38.0	229	7.2	18.0	1.5	16
07...	0722	80513	80020	40.0	229	7.2	18.0	2.0	21
07...	0723	80513	80020	42.0	223	7.2	17.5	2.3	24
07...	0724	80513	80020	50.0	224	7.2	17.0	2.1	22
07...	0725	80513	80020	60.0	219	7.2	16.0	3.5	36
07...	0726	80513	80020	70.0	222	7.4	16.0	4.3	44
07...	0727	80513	80020	80.0	226	7.4	15.5	4.8	49
07...	0728	80513	80020	90.0	223	7.4	15.0	5.0	50
07...	0729	80513	80020	100	224	7.4	15.0	5.2	52
07...	0730	80513	80020	110	224	7.4	14.5	4.8	48
07...	0731	80513	80020	120	228	7.4	14.0	3.5	34
07...	0732	80513	81213	128	231	7.4	13.5	2.3	22
07...	0733	80513	80020	130	235	7.3	13.0	1.3	13
07...	0734	80513	80020	140	238	7.3	12.5	0.3	3
07...	0735	80513	80020	150	240	7.3	12.5	0.2	2
07...	0736	80513	80020	160	240	7.3	12.5	0.2	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
AUG									
07...	0710	2.80	2	--	110	--	--	--	--
07...	0718	--	--	5	--	0.33	1.2	<10	130
07...	0732	--	--	<5	--	0.38	1.0	<10	120

DATE	TIME	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG									
07...	0711	--	--	--	--	--	--	2.10	0.100
07...	0718	34	10	124	0.020	0.110	<0.010	--	--
07...	0732	33	8.0	106	0.460	<0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07054478 BULL SHOALS LAKE AT HIGHWAY 160 NEAR THEODOSIA, MISSOURI
(LAT 36°34'40" LONG 092°38'47")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY									
08.	1040	80513	80020	0.0	--	--	--	--	--
08.	1041	80513	80020	3.00	--	--	--	--	--
08.	1045	80513	81213	23.0	289	8.3	17.5	9.2	99
AUG									
07.	1015	80513	81213	0.0	--	--	--	--	--
07.	1016	80513	80020	3.00	--	--	--	--	--
07.	1020	80513	81213	25.0	349	7.4	20.5	0.6	7

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
MAY								
08.	1040	1.60	22	--	--	--	--	--
08.	1045	--	--	20	6.0	1.3	150	34
AUG								
07.	1015	2.50	3	--	--	--	--	--
07.	1020	--	--	5	2.9	1.7	180	41

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
MAY								
08.	1041	--	--	--	--	--	2.70	<0.200
08.	1045	16	144	0.130	<0.020	<0.010	--	--
AUG								
07.	1016	--	--	--	--	--	2.30	0.300
07.	1020	19	174	<0.020	<0.020	0.010	--	--

07054486 BULL SHOALS LAKE ABOVE PINE BRANCH AT INDIAN POINT, ARKANSAS
(LAT 36°28'30" LONG 092°37'44")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
08.	1400	80513	80020	0.0	--	--	--	--	--
08.	1401	80513	80020	3.00	--	--	--	--	--
08.	1405	80513	81213	30.0	255	7.8	7.0	11.2	95
08.	1410	80513	81213	120	267	8.0	6.5	11.1	93
MAY									
08.	0955	80513	80020	0.0	--	--	--	--	--
08.	0956	80513	80020	3.00	--	--	--	--	--
08.	1000	80513	81213	34.0	245	8.3	15.0	9.8	99
08.	1005	80513	81213	136	265	7.9	9.5	7.9	71
AUG									
07.	0900	80513	81213	0.0	--	--	--	--	--
07.	0901	80513	80020	3.00	--	--	--	--	--
07.	0905	80513	81213	34.0	234	7.5	19.5	2.7	30
07.	0910	80513	81213	136	276	7.4	13.5	0.9	9

WHITE RIVER BASIN--CONTINUED

07054486 BULL SHOALS LAKE ABOVE PINE BRANCH AT INDIAN POINT, ARKANSAS--CONTINUED
(LAT 36°28'30" LONG 092°37'44")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
08.	1400	4.30	0	--	--	--	--	--
08.	1405	--	--	<5	0.54	0.6	130	37
08.	1410	--	--	<5	0.92	0.6	150	38
MAY								
08.	0955	4.10	2	--	--	--	--	--
08.	1000	--	--	5	0.18	0.8	120	33
08.	1005	--	--	5	0.34	0.6	140	35
AUG								
07.	0900	3.40	0	--	--	--	--	--
07.	0905	--	--	<5	0.45	1.3	130	36
07.	0910	--	--	<5	0.40	1.0	140	35

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
08.	1401	--	--	--	--	--	1.40	<0.100
08.	1405	10	116	0.110	<0.020	0.010	--	--
08.	1410	13	116	0.050	<0.020	0.010	--	--
MAY								
08.	0956	--	--	--	--	--	0.800	<0.100
08.	1000	10	110	0.130	<0.020	<0.010	--	--
08.	1005	12	128	0.290	<0.020	<0.010	--	--
AUG								
07.	0901	--	--	--	--	--	1.80	0.100
07.	0905	9.3	114	0.080	0.020	0.010	--	--
07.	0910	12	122	0.370	<0.020	<0.010	--	--

07054496 BULL SHOALS LAKE AT JIMMIE CREEK NEAR BULL SHOALS, ARKANSAS
(LAT 36°23'00" LONG 092°36°58")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
03.	1155	80513	80020	0.0	--	--	--	--	--
03.	1156	80513	80020	3.00	--	--	--	--	--
03.	1200	80513	81213	25.0	264	8.1	7.5	11.0	94
03.	1205	80513	81213	100	264	8.0	7.5	10.6	90
MAY									
08.	1400	80513	80020	0.0	--	--	--	--	--
08.	1401	80513	80020	3.00	--	--	--	--	--
08.	1405	80513	81213	30.0	247	8.3	14.5	10.8	108
08.	1410	80513	81213	120	251	7.9	10.0	8.7	79
AUG									
06.	1130	80513	81213	0.0	--	--	--	--	--
06.	1131	80513	80020	3.00	--	--	--	--	--
06.	1135	80513	81213	30.0	258	7.9	25.5	5.1	63
06.	1140	80513	81213	120	242	7.6	14.5	2.8	28

WHITE RIVER BASIN--CONTINUED

07054496 BULL SHOALS LAKE AT JIMMIE CREEK NEAR BULL SHOALS, ARKANSAS--CONTINUED
(LAT 36°23'00" LONG 092°36'58")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
03.	1155	4.30	1	--	--	--	--	--
03.	1200	--	--	<5	0.44	0.9	130	36
03.	1205	--	--	<5	0.46	0.9	130	36
MAY								
08.	1400	3.80	1	--	--	--	--	--
08.	1405	--	--	<5	0.35	0.9	120	33
08.	1410	--	--	<5	0.18	0.6	120	33
AUG								
06.	1130	3.70	1	--	--	--	--	--
06.	1135	--	--	5	0.34	1.4	130	34
06.	1140	--	--	<5	0.29	1.0	120	34

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
03.	1156	--	--	--	--	--	1.50	<0.100
03.	1200	10	122	0.110	<0.020	<0.010	--	--
03.	1205	10	122	0.110	<0.020	<0.010	--	--
MAY								
08.	1401	--	--	--	--	--	0.900	<0.100
08.	1405	10	122	0.140	<0.020	<0.010	--	--
08.	1410	10	118	0.220	<0.020	<0.010	--	--
AUG								
06.	1131	--	--	--	--	--	1.30	<0.100
06.	1135	11	120	0.020	0.020	0.010	--	--
06.	1140	9.4	108	0.320	<0.020	<0.010	--	--

07054499 BULL SHOALS LAKE ON HOWARD CREEK NEAR LAKEVIEW, ARKANSAS
(LAT 36°23'32" LONG 092°32'10")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
03.	1245	80513	80020	0.0	--	--	--	--	--
03.	1246	80513	80020	3.00	--	--	--	--	--
03.	1250	80513	81213	30.0	265	7.9	8.0	11.2	97
03.	1255	80513	81213	120	265	7.9	8.0	10.1	87
MAY									
08.	1425	80513	80020	0.0	--	--	--	--	--
08.	1426	80513	80020	3.00	--	--	--	--	--
08.	1430	80513	81213	33.0	247	8.3	15.0	10.7	109
08.	1435	80513	81213	132	250	7.8	9.5	8.6	77
AUG									
06.	1230	80513	81213	0.0	--	--	--	--	--
06.	1231	80513	80020	3.00	--	--	--	--	--
06.	1235	80513	81213	34.0	256	8.3	27.0	6.9	88
06.	1240	80513	81213	136	245	7.6	14.0	2.4	24

WHITE RIVER BASIN--CONTINUED

07054499 BULL SHOALS LAKE ON HOWARD CREEK NEAR LAKEVIEW, ARKANSAS--CONTINUED
(LAT 36°23'32" LONG 092°32'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
03.	1245	4.30	0	--	--	--	--	--
03.	1250	--	--	<5	0.58	0.9	140	37
03.	1255	--	--	<5	1.2	0.7	130	37
MAY								
08.	1425	4.30	2	--	--	--	--	--
08.	1430	--	--	<5	0.32	1.0	120	33
08.	1435	--	--	5	0.25	0.6	130	34
AUG								
06.	1230	4.30	0	--	--	--	--	--
06.	1235	--	--	<5	0.48	1.4	130	34
06.	1240	--	--	<5	0.20	0.8	120	33

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
03.	1246	--	--	--	--	--	1.60	<0.100
03.	1250	11	124	0.120	<0.020	<0.010	--	--
03.	1255	10	122	0.120	<0.020	<0.010	--	--
MAY								
08.	1430	10	118	0.130	<0.020	<0.010	--	--
08.	1435	10	116	0.230	<0.020	<0.010	--	--
AUG								
06.	1231	--	--	--	--	--	1.20	<0.100
06.	1235	11	124	0.030	<0.020	0.010	--	--
06.	1240	9.8	108	0.310	<0.020	<0.010	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, ARKANSAS
(LAT 36°21'56" LONG 092°34'29")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
03.	1315	80513	80020	0.0	--	--	--	--	--
03.	1316	80513	80020	3.00	--	--	--	--	--
03.	1320	80513	81213	25.0	265	7.9	8.0	10.4	90
03.	1325	80513	81213	100	264	7.9	7.5	10.0	85
MAY									
08.	1445	80513	80020	0.0	--	--	--	--	--
08.	1446	80513	80020	3.00	--	--	--	--	--
08.	1450	80513	81213	25.0	247	8.4	15.5	11.1	114
08.	1455	80513	81213	100	244	8.0	10.5	9.6	88
AUG									
06.	1250	80513	81213	0.0	--	--	--	--	--
06.	1251	80513	80020	3.00	--	--	--	--	--
06.	1255	80513	81213	25.0	253	8.5	27.5	7.8	100
06.	1300	80513	81213	100	225	7.6	15.0	5.4	54

WHITE RIVER BASIN--CONTINUED

07054500 BULL SHOALS LAKE NEAR FLIPPIN, ARKANSAS--CONTINUED
(LAT 36°21'56" LONG 092°34'29")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
03.	1315	4.40	0	--	--	--	--	--
03.	1320	--	--	<5	0.47	0.7	140	37
03.	1325	--	--	<5	0.66	0.7	140	37
MAY								
08.	1445	6.10	3	--	--	--	--	--
08.	1450	--	--	5	0.26	1.0	120	33
08.	1455	--	--	5	0.15	0.5	120	33
AUG								
06.	1250	4.30	0	--	--	--	--	--
06.	1255	--	--	<5	0.30	1.2	130	34
06.	1300	--	--	<5	0.13	0.9	110	32

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
03.	1316	--	--	--	--	--	1.20	<0.100
03.	1320	11	122	0.120	<0.020	<0.010	--	--
03.	1325	11	122	0.120	<0.020	<0.010	--	--
MAY								
08.	1446	--	--	--	--	--	0.300	<0.100
08.	1450	10	124	0.120	<0.020	<0.010	--	--
08.	1455	9.2	110	0.230	<0.020	<0.010	--	--
AUG								
06.	1251	--	--	--	--	--	1.20	<0.100
06.	1255	10	122	0.030	<0.020	0.010	--	--
06.	1300	7.9	94	0.480	<0.020	<0.010	--	--

07054501 WHITE RIVER AT BULL SHOALS DAM NEAR FLIPPIN, ARKANSAS
(LAT 36°21'56" LONG 092°34'29")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
JAN										
03...	1345	80513	81213	266	8.1	8.5	12.1	105	0	<5
MAY										
08...	1520	80513	81213	245	8.0	9.5	10.8	96	0	<5
AUG										
06...	1320	80513	81213	235	7.7	13.5	5.9	57	2	5

DATE	TIME	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
JAN										
03...	1345	0.62	0.6	140	37	11	124	0.120	<0.020	<0.010
MAY										
08...	1520	0.13	0.3	120	32	9.1	100	0.270	<0.020	<0.010
AUG										
06...	1320	0.26	0.9	120	33	8.5	108	0.440	<0.020	0.010

WHITE RIVER BASIN--CONTINUED

07058500 NORTH FORK RIVER AT TECUMSEH, MISSOURI
(LAT 36°35'12" LONG 092°17'18")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
03.	0830	80513	80020	0.0	--	--	--	--	--
03.	0836	80513	81213	1.00	398	8.3	5.5	12.3	99
03.	0837	80513	80020	3.00	--	--	--	--	--
03.	0840	80513	81213	5.00	398	8.2	5.5	12.2	99
MAY									
07.	1435	80513	80020	0.0	--	--	--	--	--
07.	1436	80513	80020	3.00	--	--	--	--	--
07.	1440	80513	81213	4.00	270	7.9	15.5	10.6	108
07.	1445	80513	81213	16.0	269	7.8	15.5	9.9	101
AUG									
07.	1240	80513	81213	0.0	--	--	--	--	--
07.	1241	80513	80020	3.00	--	--	--	--	--
07.	1245	80513	81213	5.00	322	8.3	24.5	8.5	103
07.	1250	80513	81213	18.0	340	8.2	20.5	8.4	94

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
03.	0830	>1.80	7	--	--	--	--	--
03.	0836	--	--	<5	0.24	0.6	220	47
03.	0840	--	--	<5	0.31	0.6	220	46
MAY								
07.	1435	1.60	140	--	--	--	--	--
07.	1440	--	--	10	3.0	0.7	140	31
07.	1445	--	--	10	2.9	0.9	140	30
AUG								
07.	1240	1.60	1	--	--	--	--	--
07.	1245	--	--	5	2.1	1.7	200	42
07.	1250	--	--	5	2.8	1.1	210	43

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
03.	0836	26	210	0.340	<0.020	<0.010	--	--
03.	0837	--	--	--	--	--	0.200	<0.100
03.	0840	26	208	0.340	<0.020	<0.010	--	--
MAY								
07.	1436	--	--	--	--	--	0.200	<0.100
07.	1440	16	128	0.570	<0.020	0.010	--	--
07.	1445	16	140	0.570	<0.020	0.010	--	--
AUG								
07.	1241	--	--	--	--	--	3.70	0.500
07.	1245	23	194	0.190	0.020	0.010	--	--
07.	1250	24	204	0.470	<0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07058600 NORFORK LAKE NEAR UDALL, MISSOURI
(LAT 36°32'53" LONG 092°16'55")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
03.	0730	80513	80020	0.0	--	--	--	--	--
03.	0731	80513	80020	3.00	--	--	--	--	--
03.	0735	80513	81213	5.00	393	8.3	5.5	13.2	106
MAY									
07.	1415	80513	80020	0.0	--	--	--	--	--
07.	1416	80513	80020	3.00	--	--	--	--	--
07.	1420	80513	81213	17.0	294	7.8	16.0	9.1	94
AUG									
07.	1225	80513	81213	0.0	--	--	--	--	--
07.	1226	80513	80020	3.00	--	--	--	--	--
07.	1230	80513	81213	13.0	338	8.0	25.0	5.2	64

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
03.	0730	2.20	1	--	--	--	--	--
03.	0735	--	--	<5	0.62	0.6	240	49
MAY								
07.	1415	1.00	76	--	--	--	--	--
07.	1420	--	--	10	4.8	0.7	160	34
AUG								
07.	1225	1.80	1	--	--	--	--	--
07.	1230	--	--	<5	2.0	1.6	200	42

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
03.	0731	--	--	--	--	--	0.100	<0.100
03.	0735	29	234	0.270	<0.020	<0.010	--	--
MAY								
07.	1416	--	--	--	--	--	0.200	<0.100
07.	1420	18	150	0.500	<0.020	0.010	--	--
AUG								
07.	1226	--	--	--	--	--	3.70	0.600
07.	1230	23	196	0.210	0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07058700 NORFORK LAKE ON PIGEON CREEK NEAR MOUNTAIN HOME, ARKANSAS
(LAT 36°24'07" LONG 092°19'15")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
02.	1440	80513	80020	0.0	--	--	--	--	--
02.	1441	80513	80020	3.00	--	--	--	--	--
02.	1445	80513	81213	10.0	325	8.5	5.0	13.1	104
02.	1450	80513	81213	42.0	324	8.4	4.5	12.7	100
MAY									
09.	0750	80513	80020	0.0	--	--	--	--	--
09.	0751	80513	80020	3.00	--	--	--	--	--
09.	0755	80513	81213	15.0	294	8.5	18.5	10.8	119
09.	0800	80513	81213	60.0	291	7.9	13.5	6.4	63
AUG									
07.	1655	80513	81213	0.0	--	--	--	--	--
07.	1656	80513	80020	3.00	--	--	--	--	--
07.	1700	80513	81213	14.0	268	8.3	27.5	7.5	96
07.	1705	80513	81213	56.0	276	7.3	17.0	0.6	6

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
02.	1440	2.80	0	--	--	--	--	--
02.	1445	--	--	<5	0.65	1.7	180	35
02.	1450	--	--	<5	0.81	1.0	180	35
MAY								
09.	0750	2.90	4	--	--	--	--	--
09.	0755	--	--	5	0.56	1.2	160	33
09.	0800	--	--	20	8.8	1.2	150	32
AUG								
07.	1655	2.60	0	--	--	--	--	--
07.	1700	--	--	<5	0.36	1.6	160	34
07.	1705	--	--	5	1.5	1.4	160	34

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
02.	1441	--	--	--	--	--	3.10	<0.100
02.	1445	22	168	0.040	<0.020	<0.010	--	--
02.	1450	22	168	0.040	<0.020	<0.010	--	--
MAY								
09.	0751	--	--	--	--	--	3.20	<0.100
09.	0755	18	154	0.230	<0.020	<0.010	--	--
09.	0800	17	156	0.330	<0.020	0.010	--	--
AUG								
07.	1656	--	--	--	--	--	2.70	0.300
07.	1700	19	154	<0.020	<0.020	<0.010	--	--
07.	1705	18	164	<0.020	<0.010	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07058995 NORFORK LAKE AT HENDERSON, ARKANSAS
(LAT 36°22'30" LONG 092°14'37")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
02.	1515	80513	80020	0.0	--	--	--	--	--
02.	1516	80513	80020	3.00	--	--	--	--	--
02.	1520	80513	81213	26.0	318	8.1	7.0	11.5	96
02.	1525	80513	81213	110	322	8.2	5.5	11.4	92
MAY									
09.	0715	80513	80020	0.0	--	--	--	--	--
09.	0716	80513	80020	3.00	--	--	--	--	--
09.	0720	80513	81213	28.0	297	8.2	17.0	10.5	112
09.	0725	80513	81213	112	320	7.8	10.0	6.3	57
AUG									
07.	1355	80513	81213	0.0	--	--	--	--	--
07.	1356	80513	80020	3.00	--	--	--	--	--
07.	1400	80513	81213	28.0	273	7.9	25.0	4.3	53
07.	1405	80513	81213	112	271	7.5	13.0	0.6	6

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
02.	1515	4.90	0	--	--	--	--	--
02.	1520	--	--	<5	0.79	0.8	170	34
02.	1525	--	--	<5	0.63	1.0	180	35
MAY								
09.	0715	4.80	0	--	--	--	--	--
09.	0720	--	--	10	0.35	0.9	160	33
09.	0725	--	--	5	0.80	0.9	170	35
AUG								
07.	1355	3.60	0	--	--	--	--	--
07.	1400	--	--	5	0.56	1.0	160	34
07.	1405	--	--	5	7.4	1.2	160	34

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
02.	1516	--	--	--	--	--	1.60	<0.100
02.	1520	21	164	0.070	<0.020	<0.010	--	--
02.	1525	22	162	0.040	<0.020	<0.010	--	--
MAY								
09.	0716	--	--	--	--	--	1.40	<0.100
09.	0720	19	154	0.260	<0.020	<0.010	--	--
09.	0725	20	166	0.370	<0.020	<0.010	--	--
AUG								
07.	1356	--	--	--	--	--	1.70	0.200
07.	1400	19	162	0.020	<0.020	<0.010	--	--
07.	1405	18	156	0.140	0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07059095 NORFORK LAKE ON FALL CREEK, ARKANSAS
(LAT 36°20'07" LONG 092°17'04")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
02.	1400	80513	80020	0.0	--	--	--	--	--
02.	1401	80513	80020	3.00	--	--	--	--	--
02.	1405	80513	81213	8.00	318	8.2	6.5	12.1	100
MAY									
09.	0840	80513	80020	0.0	--	--	--	--	--
09.	0841	80513	80020	3.00	--	--	--	--	--
09.	0845	80513	81213	6.00	293	8.5	18.0	11.6	126
AUG									
07.	1420	80513	81213	0.0	--	--	--	--	--
07.	1421	80513	80020	3.00	--	--	--	--	--
07.	1425	80513	81213	16.0	271	8.1	27.5	6.7	86

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
02.	1400	2.90	0	--	--	--	--	--
02.	1405	--	--	<5	1.2	1.4	170	34
MAY								
09.	0840	2.60	1	--	--	--	--	--
09.	0845	--	--	5	0.23	2.0	160	32
AUG								
07.	1420	2.30	3	--	--	--	--	--
07.	1425	--	--	<5	0.56	1.3	160	34

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
02.	1401	--	--	--	--	--	0.600	<0.100
02.	1405	21	160	0.050	<0.020	<0.010	--	--
MAY								
09.	0841	--	--	--	--	--	4.10	<0.100
09.	0845	19	134	0.090	<0.020	0.060	--	--
AUG								
07.	1421	--	--	--	--	--	2.40	0.300
07.	1425	19	154	<0.020	<0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07059495 NORFORK LAKE NEAR HAND, ARKANSAS
(LAT 36°16'27" LONG 092°12'30")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
02.	1230	80513	80020	0.0	--	--	--	--	--
02.	1231	80513	80020	3.00	--	--	--	--	--
02.	1235	80513	81213	30.0	310	8.2	7.0	10.9	91
02.	1240	80513	81213	120	303	8.2	6.0	11.2	91
MAY									
07.	1145	80513	80020	0.0	--	--	--	--	--
07.	1146	80513	80020	3.00	--	--	--	--	--
07.	1150	80513	81213	32.0	305	8.2	19.5	10.1	112
07.	1155	80513	81213	128	317	7.9	9.5	8.7	77
AUG									
08.	0750	80513	81213	0.0	--	--	--	--	--
08.	0751	80513	80020	3.00	--	--	--	--	--
08.	0755	80513	81213	30.0	272	7.9	23.5	5.5	66
08.	0800	80513	81213	120	285	7.7	11.5	3.7	34

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
02.	1230	4.80	0	--	--	--	--	--
02.	1235	--	--	<5	0.71	0.9	160	33
02.	1240	--	--	<5	1.1	1.0	160	32
MAY								
07.	1145	9.60	0	--	--	--	--	--
07.	1150	--	--	<5	0.13	0.3	160	32
07.	1155	--	--	5	0.23	0.4	170	34
AUG								
08.	0750	3.70	0	--	--	--	--	--
08.	0755	--	--	<5	0.30	1.0	160	32
08.	0800	--	--	<5	0.35	1.1	160	33

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
02.	1231	--	--	--	--	--	1.10	<0.100
02.	1235	20	156	0.070	<0.020	<0.010	--	--
02.	1240	20	156	0.030	<0.020	<0.010	--	--
MAY								
07.	1146	--	--	--	--	--	0.200	<0.100
07.	1150	19	144	0.200	<0.020	<0.010	--	--
07.	1155	21	156	0.210	<0.020	0.010	--	--
AUG								
08.	0751	--	--	--	--	--	1.90	0.200
08.	0755	19	154	0.020	<0.020	<0.010	--	--
08.	0800	19	158	0.310	<0.020	<0.010	--	--

WHITE RIVER BASIN--CONTINUED

07059500 NORFORK LAKE NEAR NORFORK, ARKANSAS
(LAT 36°14'57" LONG 092°14'16")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
02.	1200	80513	80020	0.0	--	--	--	--	--
02.	1201	80513	80020	3.00	--	--	--	--	--
02.	1205	80513	81213	25.0	309	8.2	7.5	10.9	92
02.	1210	80513	81213	100	306	8.2	6.5	10.6	87
MAY									
07.	1205	80513	80020	0.0	--	--	--	--	--
07.	1206	80513	80020	3.00	--	--	--	--	--
07.	1210	80513	81213	25.0	302	8.2	19.5	10.7	119
07.	1215	80513	81213	100	312	8.0	9.5	8.5	76
AUG									
08.	0810	80513	81213	0.0	--	--	--	--	--
08.	0811	80513	80020	3.00	--	--	--	--	--
08.	0815	80513	81213	25.0	268	8.6	26.5	8.8	111
08.	0820	80513	81213	100	273	7.8	13.5	4.3	42

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
02.	1200	4.90	0	--	--	--	--	--
02.	1205	--	--	<5	0.56	1.0	170	34
02.	1210	--	--	<5	0.97	0.8	160	33
MAY								
07.	1205	9.80	0	--	--	--	--	--
07.	1210	--	--	<5	0.18	0.7	160	32
07.	1215	--	--	<5	0.13	0.7	170	34
AUG								
08.	0810	3.80	0	--	--	--	--	--
08.	0815	--	--	5	0.34	1.2	160	32
08.	0820	--	--	<5	0.19	1.0	150	31

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
02.	1201	--	--	--	--	--	1.50	<0.100
02.	1205	20	158	0.080	<0.020	<0.010	--	--
02.	1210	20	158	0.050	<0.020	<0.010	--	--
MAY								
07.	1206	--	--	--	--	--	<0.100	<0.100
07.	1210	19	150	0.200	<0.020	<0.010	--	--
07.	1215	20	164	0.210	<0.020	<0.010	--	--
AUG								
08.	0811	--	--	--	--	--	1.30	<0.100
08.	0815	19	158	0.020	<0.020	<0.010	--	--
08.	0820	18	148	0.380	<0.020	<0.010	--	--

WHITE RIVER BASIN--CONTINUED

07060000 NORTH FORK RIVER AT NORFORK DAM NEAR NORFORK, ARKANSAS
(LAT 36°14'18" LONG 092°14'18")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)
JAN										
02...	1140	80513	81213	312	8.1	7.0	13.6	113	30	<5
MAY										
07...	1240	80513	81213	301	7.9	19.0	10.2	112	1	<5
AUG										
08...	0725	80513	81213	280	7.5	12.5	6.0	57	8	<5

DATE	TIME	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)
JAN										
02...	1140	2.3	1.5	170	34	20	154	0.090	0.040	0.040
MAY										
07...	1240	0.20	1.1	160	31	19	166	0.210	0.140	0.070
AUG										
08...	0725	0.66	1.2	160	33	19	172	0.390	<0.020	0.010

07061600 BLACK RIVER BELOW ANNAPOLIS, MISSOURI
(LAT 37°19'30" LONG 090°45'50")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
16.	1415	80513	80020	0.0	--	--	--	--	--
16.	1420	80513	80020	1.00	307	8.1	9.5	12.4	110
APR									
30.	1330	80513	80020	0.0	--	--	--	--	--
30.	1335	80513	81213	3.00	218	7.8	17.0	10.8	114
AUG									
21.	1555	80513	81213	0.0	--	--	--	--	--
21.	1600	80513	81213	1.00	290	7.7	24.0	7.9	96

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
JAN									
16.	1415	>0.61	1	--	--	--	--	--	--
16.	1420	--	--	<5	0.14	0.2	160	32	19
APR									
30.	1330	>1.80	1	--	--	--	--	--	--
30.	1335	--	--	<5	0.17	1.1	110	23	13
AUG									
21.	1555	>0.61	5	--	--	--	--	--	--
21.	1600	--	--	<5	<0.10	0.7	150	32	18

WHITE RIVER BASIN--CONTINUED

07061600 BLACK RIVER BELOW ANNAPOLIS, MISSOURI--CONTINUED
(LAT 37°19'30" LONG 090°45'50")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
16.	1420	130	0.110	<0.020	0.010	<1	0.300	<0.100
APR								
30.	1335	102	0.080	<0.020	<0.010	<1	<0.100	<0.100
AUG								
21.	1600	154	0.060	0.040	0.010	<1	<0.100	<0.100

07061700 CLEARWATER LAKE ABOVE FINLEY BRANCH, MISSOURI
(LAT 37°12'30" LONG 090°46'43")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
16.	1515	80513	80020	0.0	--	--	--	--	--
16.	1520	80513	80020	3.00	298	8.3	10.0	12.1	109
APR									
30.	1300	80513	80020	0.0	--	--	--	--	--
30.	1305	80513	80020	3.00	205	8.0	18.5	11.5	125
AUG									
21.	1245	80513	81213	0.0	--	--	--	--	--
21.	1246	80513	81213	2.00	277	7.8	28.0	9.8	127
21.	1250	80513	80020	3.00	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
JAN									
16.	1515	1.50	0	--	--	--	--	--	--
16.	1520	--	--	<5	2.1	0.2	160	31	19
APR									
30.	1300	1.60	6	--	--	--	--	--	--
30.	1305	--	--	<5	2.6	1.4	100	21	12
AUG									
21.	1245	0.79	7	--	--	--	--	--	--
21.	1246	--	--	<5	0.20	1.7	140	29	17

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
16.	1520	128	0.050	<0.020	0.010	1	0.500	<0.100
APR								
30.	1305	86	0.090	<0.020	0.010	1	0.100	<0.100
AUG								
21.	1246	122	0.020	0.040	0.010	1	--	--
21.	1250	--	--	--	--	--	3.80	0.400

WHITE RIVER BASIN--CONTINUED

07061950 CLEARWATER LAKE AT CARTER HOLLOW, MISSOURI
(LAT 37°09'58" LONG 090°48'43")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
17.	0950	80513	80020	0.0	--	--	--	--	--
17.	0951	80513	81213	2.00	262	8.3	9.5	12.7	112
17.	0955	80513	80020	3.00	--	--	--	--	--
APR									
30.	1610	80513	80020	0.0	--	--	--	--	--
30.	1615	80513	81213	2.00	220	8.0	19.0	11.5	126
AUG									
21.	1340	80513	81213	0.0	--	--	--	--	--
21.	1341	80513	81213	2.00	237	8.4	28.5	9.4	123
21.	1345	80513	80020	3.00	--	--	--	--	--

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
JAN									
17.	0950	0.70	0	--	--	--	--	--	--
17.	0951	--	--	<5	4.9	0.6	140	30	17
APR									
30.	1610	1.10	2	--	--	--	--	--	--
30.	1615	--	--	5	2.6	1.3	110	24	13
AUG									
21.	1340	0.91	1	--	--	--	--	--	--
21.	1341	--	--	<5	0.16	1.6	120	26	14

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
17.	0951	136	0.050	<0.020	0.010	1	--	--
17.	0955	--	--	--	--	--	1.60	<0.100
APR								
30.	1615	114	0.300	<0.020	0.010	<1	0.500	<0.100
AUG								
21.	1341	116	0.020	0.050	0.020	1	--	--
21.	1345	--	--	--	--	--	4.70	0.700

07061980 CLEARWATER LAKE NEAR CARTER SPRING ON WEBB CREEK, MISSOURI
(LAT 37°08'34" LONG 090°49'08")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
17.	0935	80513	80020	0.0	--	--	--	--	--
17.	0940	80513	80020	1.00	271	8.3	7.5	13.0	110
APR									
30.	1630	80513	80020	0.0	--	--	--	--	--
30.	1635	80513	80020	2.00	233	8.6	20.0	15.3	171
AUG									
21.	1320	80513	81213	0.0	--	--	--	--	--
21.	1325	80513	81213	3.00	235	8.3	29.5	9.0	120

WHITE RIVER BASIN--CONTINUED

07061980 CLEARWATER LAKE NEAR CARTER SPRING ON WEBB CREEK, MISSOURI--CONTINUED
(LAT 37°08'34" LONG 090°49'08")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
JAN									
17.	0935	0.46	1	--	--	--	--	--	--
17.	0940	--	--	<5	11	0.7	140	30	17
APR									
30.	1630	0.58	0	--	--	--	--	--	--
30.	1635	--	--	5	5.9	1.6	120	25	14
AUG									
21.	1320	0.67	8	--	--	--	--	--	--
21.	1325	--	--	<5	0.20	1.8	120	26	14

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
17.	0940	154	0.020	<0.020	0.010	1	3.20	<0.100
APR								
30.	1635	100	0.260	<0.020	0.010	1	0.400	<0.100
AUG								
21.	1325	108	0.020	0.050	0.020	1	6.00	0.800

07061990 CLEARWATER LAKE AT CLEARWATER DAM, MISSOURI
(LAT 37°08'12" LONG 090°46'23")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
17.	0920	80513	80020	0.0	--	--	--	--	--
17.	0921	80513	80020	3.00	--	--	--	--	--
17.	0925	80513	81213	7.00	282	8.3	5.5	13.5	108
17.	0930	80513	81213	26.0	279	8.3	5.0	13.1	104
APR									
30.	1645	80513	80020	0.0	--	--	--	--	--
30.	1651	80513	80020	3.00	--	--	--	--	--
30.	1655	80513	81213	7.00	194	8.1	19.5	9.6	106
30.	1700	80513	81213	28.0	196	7.8	16.0	8.9	92
AUG									
21.	1400	80513	81213	0.0	--	--	--	--	--
21.	1401	80513	80020	3.00	--	--	--	--	--
21.	1405	80513	81213	6.00	228	8.5	29.0	10.0	132
21.	1410	80513	81213	26.0	263	7.5	23.5	0.5	6

WHITE RIVER BASIN--CONTINUED

07061990 CLEARWATER LAKE AT CLEARWATER DAM, MISSOURI--CONTINUED
(LAT 37°08'12" LONG 090°46'23")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
JAN									
17.	0920	1.60	0	--	--	--	--	--	--
17.	0925	--	--	<5	2.9	0.5	150	31	18
17.	0930	--	--	<5	3.3	0.5	150	31	18
APR									
30.	1645	1.20	0	--	--	--	--	--	--
30.	1655	--	--	5	2.3	1.8	95	20	11
30.	1700	--	--	<5	2.0	1.3	95	20	11
AUG									
21.	1400	1.60	0	--	--	--	--	--	--
21.	1405	--	--	<5	0.58	1.3	120	25	14
21.	1410	--	--	<5	4.9	0.9	130	27	15

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
17.	0921	--	--	--	--	--	1.40	<0.100
17.	0925	132	0.040	0.020	0.010	<1	--	--
17.	0930	122	0.040	<0.020	0.010	<1	--	--
APR								
30.	1651	--	--	--	--	--	1.40	<0.100
30.	1655	82	0.130	<0.020	0.030	<1	--	--
30.	1700	86	0.110	<0.020	0.010	1	--	--
AUG								
21.	1401	--	--	--	--	--	2.40	0.200
21.	1405	110	0.060	0.040	0.020	<1	--	--
21.	1410	118	0.020	0.040	0.010	1	--	--

07062010 BLACK RIVER AT CLEARWATER DAM, MISSOURI
(LAT 37°07'55" LONG 090°46'05")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)
JAN											
17...	0900	80513	81213	286	8.0	6.0	13.1	107	3	<5	2.4
APR											
30...	1715	80513	81213	197	8.0	18.5	10.5	114	2	<5	3.6
AUG											
21...	1430	80513	81213	251	7.7	26.0	8.0	100	88	<5	0.22

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)
JAN										
17...	0900	0.6	150	31	18	146	0.060	<0.020	0.010	<1
APR										
30...	1715	1.9	95	20	11	96	0.120	<0.020	0.010	<1
AUG										
21...	1430	1.2	120	26	14	116	0.070	0.040	0.020	2

WHITE RIVER BASIN--CONTINUED

07075025 GREERS FERRY LAKE AT BRUSH CREEK, ARKANSAS
(LAT 35°37'15" LONG 092°11'16")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
15.	1030	80513	80020	0.0	--	--	--	--	--
15.	1031	80513	80020	3.00	--	--	--	--	--
15.	1035	80513	81213	9.00	41	7.3	6.0	13.5	109
15.	1040	80513	81213	36.0	40	7.2	6.0	13.2	107
MAY									
01.	1600	80513	80020	0.0	--	--	--	--	--
01.	1605	80513	80020	3.00	60	7.2	18.5	9.9	107
01.	1610	80513	81213	12.0	61	7.2	18.0	8.6	92
AUG									
08.	1315	80513	81213	0.0	--	--	--	--	--
08.	1316	80513	80020	3.00	--	--	--	--	--
08.	1320	80513	81213	10.0	53	6.7	26.5	7.3	92
08.	1325	80513	81213	42.0	69	6.3	20.5	0.7	8

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
15.	1030	2.80	0	--	--	--	--	--
15.	1035	--	--	5	1.3	0.5	17	5.1
15.	1040	--	--	5	1.4	0.3	17	5.1
MAY								
01.	1600	1.50	5	--	--	--	--	--
01.	1605	--	--	5	2.5	1.7	25	8.1
01.	1610	--	--	<5	4.6	1.3	25	8.1
AUG								
08.	1315	2.40	0	--	--	--	--	--
08.	1320	--	--	<5	0.58	1.7	21	6.6
08.	1325	--	--	30	4.8	1.4	33	11

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	1031	--	--	--	--	--	0.900	<0.100
15.	1035	1.0	15	0.070	<0.020	0.010	--	--
15.	1040	1.0	16	0.080	<0.020	0.010	--	--
MAY								
01.	1605	1.1	22	<0.020	0.080	0.010	1.40	<0.100
01.	1610	1.1	22	<0.020	<0.020	0.010	--	--
AUG								
08.	1316	--	--	--	--	--	2.20	0.400
08.	1320	1.1	19	0.020	<0.020	0.010	--	--
08.	1325	1.4	30	0.030	0.040	0.030	--	--

WHITE RIVER BASIN--CONTINUED

07075215 GREERS FERRY LAKE ABOVE HILL CREEK, ARKANSAS
(LAT 35°36'24" LONG 092°30'14")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
15.	1005	80513	80020	0.0	--	--	--	--	--
15.	1006	80513	80020	3.00	--	--	--	--	--
15.	1010	80513	81213	15.0	43	7.5	6.0	13.5	109
15.	1015	80513	81213	60.0	45	7.3	6.0	12.7	103
MAY									
01.	1630	80513	80020	0.0	--	--	--	--	--
01.	1631	80513	80020	3.00	--	--	--	--	--
01.	1635	80513	81213	6.00	43	7.2	19.0	9.7	106
01.	1640	80513	81213	24.0	43	7.1	14.5	8.8	87
AUG									
08.	1255	80513	81213	0.0	--	--	--	--	--
08.	1256	80513	80020	3.00	--	--	--	--	--
08.	1300	80513	81213	14.0	42	6.8	26.5	7.5	94
08.	1305	80513	81213	56.0	59	6.4	17.0	0.6	6

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
15.	1005	3.00	0	--	--	--	--	--
15.	1010	--	--	<5	1.5	0.2	17	5.3
15.	1015	--	--	<5	2.3	0.1	19	5.7
MAY								
01.	1630	1.60	6	--	--	--	--	--
01.	1631	--	0	--	--	--	--	--
01.	1635	--	--	5	4.1	2.0	17	5.2
01.	1640	--	--	10	4.5	1.4	16	5.1
AUG								
08.	1255	2.70	0	--	--	--	--	--
08.	1300	--	--	<5	0.73	1.6	16	4.8
08.	1305	--	--	10	6.3	1.4	22	6.7

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	1006	--	--	--	--	--	1.60	<0.100
15.	1010	1.0	16	0.070	<0.020	0.010	--	--
15.	1015	1.1	18	0.060	<0.020	0.010	--	--
MAY								
01.	1631	--	--	--	--	--	1.30	<0.100
01.	1635	1.0	12	0.110	<0.020	0.010	--	--
01.	1640	0.90	15	0.170	<0.020	0.010	--	--
AUG								
08.	1256	--	--	--	--	--	1.00	0.100
08.	1300	1.0	14	<0.020	<0.020	0.010	--	--
08.	1305	1.2	21	<0.020	0.020	0.010	--	--

WHITE RIVER BASIN--CONTINUED

07075490 GREERS FERRY LAKE NEAR CLINTON, ARKANSAS
(LAT 35°35'06" LONG 092°25'32")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
15.	0825	80513	80020	0.0	--	--	--	--	--
15.	0830	80513	80020	3.00	34	8.0	5.5	14.7	117
MAY									
02.	0730	80513	80020	0.0	--	--	--	--	--
02.	0731	80513	80020	3.00	--	--	--	--	--
02.	0735	80513	81213	5.00	27	7.3	14.0	10.7	105
AUG									
08.	1450	80513	81213	0.0	--	--	--	--	--
08.	1451	80513	80020	3.00	--	--	--	--	--
08.	1455	80513	81213	9.00	38	6.7	26.5	7.2	90

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
15.	0825	1.30	0	--	--	--	--	--
15.	0830	--	--	<5	2.5	0.4	17	4.5
MAY								
02.	0730	0.61	K560	--	--	--	--	--
02.	0735	--	--	10	2.4	1.5	12	3.0
AUG								
08.	1450	1.60	0	--	--	--	--	--
08.	1455	--	--	5	2.3	2.2	16	4.1

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	0830	1.5	13	0.040	<0.020	0.010	0.600	<0.100
MAY								
02.	0731	--	--	--	--	--	0.200	<0.100
02.	0735	1.1	8	0.050	<0.020	0.020	--	--
AUG								
08.	1451	--	--	--	--	--	2.60	0.500
08.	1455	1.3	18	0.020	0.020	0.010	--	--

07075602 GREERS FERRY LAKE NEAR CHOCTAW, ARKANSAS
(LAT 35°31'27" LONG 092°25'04")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
15.	0850	80513	80020	0.0	--	--	--	--	--
15.	0855	80513	80020	3.00	36	7.7	6.0	13.8	112
MAY									
02.	0810	80513	80020	0.0	--	--	--	--	--
02.	0815	80513	80020	3.00	26	6.9	14.5	10.1	101
AUG									
08.	1515	80513	81213	0.0	--	--	--	--	--
08.	1516	80513	80020	3.00	--	--	--	--	--
08.	1520	80513	81213	6.00	34	6.7	27.5	8.4	107

WHITE RIVER BASIN--CONTINUED

07075602 GREERS FERRY LAKE NEAR CHOCTAW, ARKANSAS--CONTINUED
(LAT 35°31'27" LONG 092°25'04")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PARENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
15.	0850	1.40	3	--	--	--	--	--
15.	0855	--	--	<5	3.9	0.1	13	3.7
MAY								
02.	0810	0.27	K1100	--	--	--	--	--
02.	0815	--	--	40	50	2.2	9	2.0
AUG								
08.	1515	1.20	0	--	--	--	--	--
08.	1520	--	--	5	2.6	2.3	12	3.3

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	0855	1.0	13	0.030	<0.020	0.010	0.700	<0.100
MAY								
02.	0815	1.0	6	0.100	0.050	0.030	1.20	0.200
AUG								
08.	1516	--	--	--	--	--	1.60	0.300
08.	1520	1.0	12	<0.020	0.020	0.010	--	--

07075638 GREERS FERRY LAKE AT HIGDEN, ARKANSAS
(LAT 35°33'48" LONG 092°11'48")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
15.	1050	80513	80020	0.0	--	--	--	--	--
15.	1051	80513	80020	3.00	--	--	--	--	--
15.	1055	80513	81213	24.0	38	7.2	6.0	13.1	106
15.	1100	80513	81213	96.0	39	7.1	5.5	12.1	97
MAY									
01.	1500	80513	80020	0.0	--	--	--	--	--
01.	1501	80513	80020	3.00	--	--	--	--	--
01.	1505	80513	81213	29.0	41	7.3	14.0	10.3	101
01.	1510	80513	81213	116	41	7.1	8.5	8.0	69
AUG									
08.	1230	80513	81213	0.0	--	--	--	--	--
08.	1231	80513	80020	3.00	--	--	--	--	--
08.	1235	80513	81213	23.0	39	7.1	27.0	8.5	108
08.	1240	80513	81213	92.0	42	6.8	12.5	2.4	23

WHITE RIVER BASIN--CONTINUED

07075638 GREERS FERRY LAKE AT HIGDEN, ARKANSAS--CONTINUED
(LAT 35°33'48" LONG 092°11'48")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
JAN								
15.	1050	2.10	1	--	--	--	--	--
15.	1055	--	--	5	1.6	0.2	16	4.7
15.	1100	--	--	5	1.9	0.2	16	4.9
MAY								
01.	1500	2.60	2	--	--	--	--	--
01.	1505	--	--	<5	1.9	1.3	18	5.8
01.	1510	--	--	5	4.3	1.2	18	5.5
AUG								
08.	1230	4.30	0	--	--	--	--	--
08.	1235	--	--	<5	0.28	1.3	14	4.1
08.	1240	--	--	<5	0.48	1.2	14	4.2

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	1051	--	--	--	--	--	0.700	<0.100
15.	1055	1.0	14	0.070	<0.020	0.010	--	--
15.	1100	1.0	15	0.070	<0.020	0.010	--	--
MAY								
01.	1501	--	--	--	--	--	0.900	<0.100
01.	1505	0.90	14	0.110	<0.020	0.010	--	--
01.	1510	1.0	14	0.210	<0.020	0.010	--	--
AUG								
08.	1231	--	--	--	--	--	0.900	0.100
08.	1235	0.90	12	<0.020	<0.020	0.010	--	--
08.	1240	0.90	12	<0.020	<0.020	0.010	--	--

07075660 GREERS FERRY LAKE NEAR EDEN ISLE, ARKANSAS
(LAT 35°30'12" LONG 092°05'32")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
15.	1200	80513	80020	0.0	--	--	--	--	--
15.	1201	80513	80020	3.00	--	--	--	--	--
15.	1205	80513	81213	26.0	36	7.1	6.5	14.0	115
15.	1210	80513	81213	104	35	7.1	6.0	13.1	106
MAY									
01.	1330	80513	80020	0.0	--	--	--	--	--
01.	1331	80513	80020	3.00	--	--	--	--	--
01.	1335	80513	81213	26.0	38	7.6	17.5	11.3	120
01.	1340	80513	81213	104	39	7.4	10.0	10.0	90
AUG									
08.	1120	80513	81213	0.0	--	--	--	--	--
08.	1121	80513	80020	3.00	--	--	--	--	--
08.	1125	80513	81213	26.0	39	7.3	26.5	8.3	104
08.	1130	80513	81213	104	43	6.9	11.5	4.2	39

WHITE RIVER BASIN--CONTINUED

07075660 GREERS FERRY LAKE NEAR EDEN ISLE, ARKANSAS--CONTINUED
(LAT 35°30'12" LONG 092°05'32")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
15.	1200	3.00	0	--	--	--	--	--
15.	1205	--	--	<5	1.2	0.2	15	4.4
15.	1210	--	--	<5	2.7	0.2	14	4.3
MAY								
01.	1330	4.20	1	--	--	--	--	--
01.	1335	--	--	5	1.7	1.4	15	4.4
01.	1340	--	--	<5	1.7	1.0	16	4.9
AUG								
08.	1120	3.40	0	--	--	--	--	--
08.	1125	--	--	<5	0.53	0.9	15	4.5
08.	1130	--	--	5	2.3	1.0	16	4.7

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	1201	--	--	--	--	--	0.600	<0.100
15.	1205	1.0	12	0.070	<0.020	0.010	--	--
15.	1210	0.90	13	0.070	<0.020	0.010	--	--
MAY								
01.	1331	--	--	--	--	--	0.900	<0.100
01.	1335	0.90	14	0.050	<0.020	0.010	--	--
01.	1340	1.0	12	0.150	<0.020	0.010	--	--
AUG								
08.	1121	--	--	--	--	--	0.600	<0.100
08.	1125	1.0	12	<0.020	<0.020	<0.010	--	--
08.	1130	1.0	12	0.200	0.020	<0.010	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, ARKANSAS
(LAT 35°31'15" LONG 091°59'42")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
15.	1245	80513	80020	0.0	--	--	--	--	--
15.	1246	80513	80020	3.00	--	--	--	--	--
15.	1250	80513	81213	25.0	37	6.8	7.0	11.5	95
15.	1255	80513	81213	100	36	6.8	6.5	10.9	89
MAY									
01.	1215	80513	80020	0.0	--	--	--	--	--
01.	1216	80513	80020	3.00	--	--	--	--	--
01.	1220	80513	81213	25.0	36	7.7	14.0	11.7	114
01.	1225	80513	81213	100	39	7.5	9.0	10.5	91
AUG									
08.	1035	80513	81213	0.0	--	--	--	--	--
08.	1036	80513	80020	3.00	--	--	--	--	--
08.	1040	80513	81213	25.0	39	7.6	26.0	8.4	104
08.	1045	80513	81213	100	40	7.3	11.5	7.1	66

WHITE RIVER BASIN--CONTINUED

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, ARKANSAS--CONTINUED
(LAT 35°31'15" LONG 091°59'42")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JAN								
15.	1245	3.80	0	--	--	--	--	--
15.	1250	--	--	5	1.0	0.2	15	4.4
15.	1255	--	--	5	0.93	0.2	15	4.4
MAY								
01.	1215	4.60	1	--	--	--	--	--
01.	1220	--	--	<5	0.57	1.4	14	4.0
01.	1225	--	--	<5	1.1	1.1	16	4.7
AUG								
08.	1035	3.80	0	--	--	--	--	--
08.	1040	--	--	<5	0.38	1.1	15	4.2
08.	1045	--	--	<5	1.1	0.9	16	4.7

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN								
15.	1246	--	--	--	--	--	0.500	<0.100
15.	1250	1.0	13	0.110	<0.020	0.010	--	--
15.	1255	1.0	13	0.100	<0.020	0.010	--	--
MAY								
01.	1216	--	--	--	--	--	1.40	<0.100
01.	1220	0.90	12	<0.020	<0.020	0.010	--	--
01.	1225	1.0	12	0.120	<0.020	0.010	--	--
AUG								
08.	1036	--	--	--	--	--	0.700	0.100
08.	1040	1.0	10	0.020	<0.020	<0.010	--	--
08.	1045	1.0	13	0.170	<0.020	<0.010	--	--

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, ARKANSAS
(LAT 35°31'02" LONG 091°59'50")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
JAN										
15...	1315	80513	81213	37	7.0	8.0	13.9	118	2	5
MAY										
01...	1130	80513	81213	41	7.8	11.5	12.6	116	--	<5
AUG										
08...	1015	80513	81213	42	9.0	15.0	13.1	130	K6	5

DATE	TIME	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
JAN										
15...	1315	1.2	0.2	15	4.4	0.90	13	0.100	<0.020	0.020
MAY										
01...	1130	0.52	1.7	16	4.5	1.1	12	0.220	<0.020	0.020
AUG										
08...	1015	1.8	1.9	15	4.4	1.0	12	0.190	0.030	0.020

ARKANSAS RIVER BASIN

07194771 PRAIRIE GROVE LAKE NEAR PRAIRIE GROVE, ARKANSAS
LAT 35°55'47" LONG 094°20'30")

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
AUG									
01...	1020	80513	80020	0.0	124	7.6	28.0	6.6	88
01...	1021	80513	80020	1.00	124	7.6	28.0	6.4	85
01...	1022	80513	80020	2.00	125	7.6	28.0	6.3	83
01...	1023	80513	80020	3.00	125	7.6	28.0	6.1	81
01...	1024	80513	80020	4.00	126	7.4	27.5	5.5	73
01...	1025	80513	80020	5.00	125	7.3	27.5	5.5	72
01...	1026	80513	80020	6.00	125	7.4	27.5	5.9	78
01...	1027	80513	80020	7.00	125	7.5	27.5	5.8	77
01...	1028	80513	80020	8.00	125	7.5	27.5	5.4	72
01...	1029	80513	80020	9.00	128	6.8	26.5	0.8	11
01...	1030	80513	80020	10.0	125	6.7	26.0	0.2	3
01...	1031	80513	80020	11.0	128	6.7	25.0	0.2	3
01...	1032	80513	80020	12.0	131	6.6	25.0	0.2	2
01...	1033	80513	80020	13.0	133	6.6	24.5	0.2	2
01...	1034	80513	80020	14.0	135	6.6	23.5	0.2	2
01...	1035	80513	80020	15.0	135	6.6	23.5	0.1	2
01...	1036	80513	80020	16.0	135	6.6	23.0	0.2	2
01...	1037	80513	80020	17.0	135	6.6	23.0	0.2	2

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
AUG									
01...	1020	1.50	--	--	--	--	--	--	--
01...	1022	--	--	--	--	--	--	15.0	0.900
01...	1023	--	<0.100	0.70	<0.010	140	70	--	--
01...	1033	--	<0.100	0.80	0.020	880	900	--	--

DATE	TIME	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)
AUG						
01...	1037	<10	75	830	13000	840

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
OCT									
11...	1220	80513	80020	0.0	135	7.1	19.5	6.5	74
11...	1221	80513	80020	1.00	134	7.1	19.5	6.2	70
11...	1222	80513	80020	2.00	134	7.1	19.5	6.0	68
11...	1223	80513	80020	3.00	134	7.1	19.5	5.9	68
11...	1224	80513	80020	4.00	135	7.1	19.5	5.9	67
11...	1225	80513	80020	5.00	135	7.1	19.5	5.9	67
11...	1226	80513	80020	6.00	135	7.1	19.5	5.8	66
11...	1227	80513	80020	7.00	135	7.1	19.5	5.7	65
11...	1228	80513	80020	8.00	135	7.1	19.5	5.7	65
11...	1229	80513	80020	9.00	135	7.1	19.5	5.7	65
11...	1230	80513	80020	10.0	134	7.1	19.5	5.6	64
11...	1231	80513	80020	11.0	135	7.1	19.5	5.6	64

ARKANSAS RIVER BASIN--CONTINUED

07194771 PRAIRIE GROVE LAKE NEAR PRAIRIE GROVE, ARKANSAS--CONTINUED
LAT 35°55'47" LONG 094°20'30")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	DISSOLVED (PERCENT SATURATION) (00301)
OCT									
11...	1232	80513	80020	12.0	135	7.1	19.5	5.6	63
11...	1233	80513	80020	13.0	134	7.1	19.5	5.5	63
11...	1234	80513	80020	14.0	134	7.1	19.5	5.3	60
11...	1235	80513	80020	15.0	134	7.1	19.5	5.2	59
11...	1236	80513	80020	16.0	134	7.1	19.5	4.9	55

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT									
11...	1220	1.50	--	--	--	--	--	--	--
11...	1222	--	--	--	--	--	--	7.00	0.600
11...	1223	--	<0.100	0.90	<0.010	360	360	--	--
11...	1233	--	<0.100	0.80	<0.010	330	330	--	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
30...	1230	80513	80020	0.0	133	7.6	7.5	12.9	112
30...	1231	80513	80020	1.00	133	7.7	7.0	12.7	110
30...	1232	80513	80020	2.00	133	7.7	7.0	12.6	109
30...	1233	80513	80020	3.00	132	7.6	7.0	12.6	109
30...	1234	80513	80020	4.00	132	7.7	7.0	12.5	108
30...	1235	80513	80020	5.00	132	7.7	7.0	12.5	108
30...	1236	80513	80020	6.00	132	7.7	7.0	12.5	107
30...	1237	80513	80020	7.00	133	7.7	7.0	12.4	106
30...	1238	80513	80020	8.00	133	7.7	7.0	12.4	107
30...	1239	80513	80020	9.00	133	7.7	7.0	12.4	107
30...	1240	80513	80020	10.0	133	7.7	7.0	12.3	106
30...	1241	80513	80020	11.0	133	7.7	7.0	12.3	106
30...	1242	80513	80020	12.0	133	7.7	7.0	12.3	105
30...	1243	80513	80020	13.0	133	7.7	7.0	12.3	105
30...	1244	80513	80020	14.0	133	7.7	6.5	12.3	105
30...	1245	80513	80020	15.0	133	7.6	6.5	12.3	105
30...	1246	80513	80020	16.0	133	7.6	6.5	12.3	105
30...	1247	80513	80020	17.0	133	7.6	6.5	12.2	105

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN									
30...	1230	2.00	--	--	--	--	--	--	--
30...	1232	--	--	--	--	--	--	0.900	<0.100
30...	1233	--	0.700	0.50	0.040	150	40	--	--
30...	1243	--	0.700	0.40	0.040	140	50	--	--

ARKANSAS RIVER BASIN--CONTINUED

07194777 BOB KIDD LAKE NEAR PRAIRIE GROVE, ARKANSAS
(LAT 35°58'13" LONG 094°21'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG									
02...	0800	80513	80020	0.0	143	8.4	28.0	8.8	117
02...	0801	80513	80020	1.00	143	8.4	28.0	8.7	117
02...	0802	80513	80020	2.00	143	8.5	28.0	8.7	116
02...	0803	80513	80020	3.00	143	8.5	28.0	8.6	115
02...	0804	80513	80020	4.00	143	8.5	28.0	8.6	115
02...	0805	80513	80020	5.00	143	8.4	28.0	8.4	112
02...	0806	80513	80020	6.00	143	8.3	28.0	7.7	103
02...	0807	80513	80020	7.00	144	8.0	28.0	6.4	86
02...	0808	80513	80020	8.00	144	7.6	27.5	5.3	70
02...	0809	80513	80020	9.00	144	7.3	27.0	4.2	55
02...	0810	80513	80020	10.0	144	7.1	27.0	3.1	40
02...	0811	80513	80020	11.0	142	6.8	26.5	1.1	14
02...	0812	80513	80020	12.0	140	6.6	25.0	0.3	4
02...	0813	80513	80020	13.0	140	6.6	25.0	0.2	3
02...	0814	80513	80020	14.0	145	6.6	24.5	0.2	2
02...	0815	80513	80020	15.0	154	6.6	23.0	0.2	2
02...	0816	80513	80020	16.0	161	6.6	22.5	0.2	2
02...	0817	80513	80020	17.0	171	6.7	21.0	0.2	3
02...	0818	80513	80020	18.0	179	6.8	19.5	0.2	2
02...	0819	80513	80020	19.0	184	6.9	18.0	0.2	2
02...	0820	80513	80020	20.0	186	6.9	17.0	0.2	2
02...	0821	80513	80020	21.0	188	6.9	16.0	0.2	2
02...	0822	80513	80020	22.0	188	6.9	15.0	0.2	2
02...	0823	80513	80020	23.0	196	6.9	14.5	0.2	2
02...	0824	80513	80020	24.0	201	6.9	14.5	0.2	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG									
02...	0800	1.50	--	--	--	--	--	--	--
02...	0802	--	--	--	--	--	--	12.0	0.400
02...	0805	--	<0.100	0.70	<0.010	260	90	--	--
02...	0819	--	<0.100	1.4	0.130	1400	4900	--	--

DATE	TIME	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)
AUG						
02...	0824	<10	90	730	16000	620

ARKANSAS RIVER BASIN--CONTINUED

07194777 BOB KIDD LAKE NEAR PRAIRIE GROVE, ARKANSAS--CONTINUED
(LAT 35°58'13" LONG 094°21'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT									
11...	0830	80513	80020	0.0	157	8.0	19.0	8.5	96
11...	0831	80513	80020	1.00	157	8.0	19.0	8.3	94
11...	0832	80513	80020	2.00	157	7.9	19.0	8.3	94
11...	0833	80513	80020	3.00	157	7.9	19.0	8.3	93
11...	0834	80513	80020	4.00	157	7.9	19.0	8.2	92
11...	0835	80513	80020	5.00	157	7.9	19.0	8.1	91
11...	0836	80513	80020	6.00	156	7.9	19.0	8.1	91
11...	0837	80513	80020	7.00	157	7.9	19.0	8.1	91
11...	0838	80513	80020	8.00	157	7.9	19.0	7.9	89
11...	0839	80513	80020	9.00	157	7.8	19.0	7.3	83
11...	0840	80513	80020	10.0	158	7.6	19.0	5.7	64
11...	0841	80513	80020	11.0	158	7.5	19.0	5.7	64
11...	0842	80513	80020	12.0	157	7.5	19.0	5.9	66
11...	0843	80513	80020	13.0	158	7.5	19.0	5.9	66
11...	0844	80513	80020	14.0	157	7.5	19.0	5.8	65
11...	0845	80513	80020	15.0	157	7.5	19.0	5.4	61
11...	0846	80513	80020	16.0	157	7.4	19.0	5.1	57
11...	0847	80513	80020	17.0	158	7.4	18.5	4.6	52
11...	0848	80513	80020	18.0	159	7.4	18.5	4.2	47
11...	0849	80513	80020	19.0	159	7.3	18.5	4.0	45
11...	0850	80513	80020	20.0	161	7.3	18.5	3.6	40

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT									
11...	0830	1.30	--	--	--	--	--	--	--
11...	0832	--	--	--	--	--	--	10.0	0.300
11...	0834	--	<0.100	0.50	<0.010	130	120	--	--
11...	0846	--	<0.100	0.80	<0.010	140	220	--	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
30...	1330	80513	80020	0.0	160	8.1	7.5	14.3	124
30...	1331	80513	80020	1.00	159	8.1	7.5	14.0	121
30...	1332	80513	80020	2.00	159	8.1	7.0	13.9	120
30...	1333	80513	80020	3.00	158	8.1	7.0	13.8	119
30...	1334	80513	80020	4.00	159	8.1	7.0	13.7	119
30...	1335	80513	80020	5.00	159	8.0	7.0	13.7	118
30...	1336	80513	80020	6.00	158	8.0	7.0	13.6	118
30...	1337	80513	80020	7.00	158	8.1	7.0	13.5	117
30...	1338	80513	80020	8.00	159	8.1	7.0	13.5	117
30...	1339	80513	80020	9.00	159	8.1	7.0	13.5	116
30...	1340	80513	80020	10.0	159	8.0	7.0	13.4	116
30...	1341	80513	80020	11.0	159	8.0	7.0	13.4	115
30...	1342	80513	80020	12.0	159	8.0	7.0	13.3	115
30...	1343	80513	80020	13.0	159	8.0	7.0	13.2	114
30...	1344	80513	80020	14.0	159	8.0	7.0	13.3	114
30...	1345	80513	80020	15.0	159	8.0	7.0	13.2	114
30...	1346	80513	80020	16.0	158	8.0	7.0	13.2	113
30...	1347	80513	80020	17.0	160	8.0	7.0	13.2	113
30...	1348	80513	80020	18.0	159	8.0	7.0	13.2	114
30...	1349	80513	80020	19.0	159	8.0	7.0	13.2	113
30...	1350	80513	80020	20.0	159	8.0	7.0	13.2	114
30...	1351	80513	80020	21.0	159	8.0	7.0	13.1	113
30...	1352	80513	80020	22.0	159	8.0	7.0	13.1	113
30...	1353	80513	80020	23.0	160	8.0	7.0	13.0	112
30...	1354	80513	80020	24.0	160	8.0	7.0	13.1	112
30...	1355	80513	80020	25.0	160	8.0	7.0	13.0	111
30...	1356	80513	80020	26.0	159	8.0	7.0	12.9	111
30...	1357	80513	80020	27.0	159	7.9	7.0	12.7	109

ARKANSAS RIVER BASIN--CONTINUED

07194777 BOB KIDD LAKE NEAR PRAIRIE GROVE, ARKANSAS--CONTINUED
(LAT 35°58'13" LONG 094°21'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN									
30...	1330	1.50	--	--	--	--	--	--	--
30...	1332	--	--	--	--	--	--	11.0	1.10
30...	1336	--	0.400	0.60	<0.010	330	100	--	--
30...	1352	--	0.400	0.50	<0.010	190	110	--	--

071947882 LINCOLN LAKE ON MOORES CREEK NEAR LINCOLN, ARKANSAS
(LAT 35°59'38 LONG 094°25'04")

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG									
01...	1300	80513	80020	0.0	85	6.8	29.5	5.6	76
01...	1301	80513	80020	1.00	85	6.8	29.0	6.0	82
01...	1302	80513	80020	2.00	84	6.8	28.5	5.9	79
01...	1303	80513	80020	3.00	84	6.8	28.5	5.6	75
01...	1304	80513	80020	4.00	84	6.8	28.0	5.7	76
01...	1305	80513	80020	5.00	84	6.6	27.5	4.5	60
01...	1306	80513	80020	6.00	84	6.4	27.5	1.9	25
01...	1307	80513	80020	7.00	89	6.2	26.0	0.3	4
01...	1308	80513	80020	8.00	87	6.1	25.5	0.2	2
01...	1309	80513	80020	9.00	92	6.2	24.0	0.2	2
01...	1310	80513	80020	10.0	92	6.2	23.0	0.2	2
01...	1311	80513	80020	11.0	99	6.2	22.0	0.2	2
01...	1312	80513	80020	12.0	98	6.2	20.5	0.2	3
01...	1313	80513	80020	13.0	101	6.2	19.5	0.2	2
01...	1314	80513	80020	14.0	103	6.3	18.5	0.2	2
01...	1315	80513	80020	15.0	105	6.3	17.0	0.2	2
01...	1316	80513	80020	16.0	113	6.4	16.5	0.2	3
01...	1317	80513	80020	17.0	112	6.4	15.5	0.3	3
01...	1318	80513	80020	18.0	112	6.5	14.5	0.3	3

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG									
01...	1300	1.20	--	--	--	--	--	--	--
01...	1302	--	--	--	--	--	--	24.0	2.40
01...	1304	--	<0.100	1.5	0.020	450	130	--	--
01...	1314	--	<0.100	1.1	0.190	3300	990	--	--

DATE	TIME	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)
AUG						
01...	1318	<10	95	1300	14000	510

ARKANSAS RIVER BASIN--CONTINUED

071947882 LINCOLN LAKE ON MOORES CREEK NEAR LINCOLN, ARKANSAS--CONTINUED
(LAT 35°59'38 LONG 094°25'04")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT									
11...	1015	80513	80020	0.0	88	7.4	18.5	6.8	76
11...	1016	80513	80020	1.00	88	7.3	18.5	6.7	74
11...	1017	80513	80020	2.00	87	7.3	18.5	6.6	73
11...	1018	80513	80020	3.00	87	7.2	18.5	6.5	72
11...	1019	80513	80020	4.00	87	7.1	18.5	6.5	72
11...	1020	80513	80020	5.00	87	7.1	18.5	6.5	72
11...	1021	80513	80020	6.00	87	7.1	18.5	6.4	71
11...	1022	80513	80020	7.00	88	7.1	18.5	6.4	71
11...	1023	80513	80020	8.00	87	7.1	18.5	6.4	71
11...	1024	80513	80020	9.00	88	7.1	18.5	6.4	70
11...	1025	80513	80020	10.0	87	7.1	18.5	6.3	70
11...	1026	80513	80020	11.0	87	7.1	18.5	6.2	69
11...	1027	80513	80020	12.0	88	7.0	18.0	6.1	68
11...	1028	80513	80020	13.0	88	7.0	18.0	6.1	67
11...	1029	80513	80020	14.0	88	7.0	18.0	6.0	66
11...	1030	80513	80020	15.0	88	7.0	18.0	6.0	66

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT									
11...	1015	1.30	--	--	--	--	--	--	--
11...	1017	--	--	--	--	--	--	4.70	0.300
11...	1018	--	<0.100	0.80	<0.010	340	140	--	--
11...	1027	--	<0.100	0.70	<0.010	360	140	--	--

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN									
31...	1020	80513	80020	0.0	87	7.5	7.0	13.4	115
31...	1021	80513	80020	1.00	87	7.4	7.0	13.1	112
31...	1022	80513	80020	2.00	87	7.4	7.0	12.9	110
31...	1023	80513	80020	3.00	87	7.4	7.0	12.7	109
31...	1024	80513	80020	4.00	87	7.3	7.0	12.5	107
31...	1025	80513	80020	5.00	88	7.3	7.0	12.4	106
31...	1026	80513	80020	6.00	88	7.3	6.5	12.4	105
31...	1027	80513	80020	7.00	88	7.3	6.5	12.3	104
31...	1028	80513	80020	8.00	86	7.3	6.5	12.2	104
31...	1029	80513	80020	9.00	87	7.3	6.5	12.2	104
31...	1030	80513	80020	10.0	87	7.3	6.5	12.2	103
31...	1031	80513	80020	11.0	87	7.3	6.5	12.1	103
31...	1032	80513	80020	12.0	87	7.2	6.5	12.1	103
31...	1033	80513	80020	13.0	87	7.2	6.5	12.1	102
31...	1034	80513	80020	14.0	87	7.2	6.5	12.0	102
31...	1035	80513	80020	15.0	86	7.2	6.5	12.1	103
31...	1036	80513	80020	16.0	86	7.3	6.5	12.0	102
31...	1037	80513	80020	17.0	87	7.2	6.5	12.0	101
31...	1038	80513	80020	18.0	86	7.2	6.5	11.9	101
31...	1039	80513	80020	19.0	86	7.2	6.5	11.9	101
31...	1040	80513	80020	20.0	86	7.2	6.5	11.8	100

ARKANSAS RIVER BASIN--CONTINUED

071947882 LINCOLN LAKE ON MOORES CREEK NEAR LINCOLN, ARKANSAS--CONTINUED
(LAT 35°59'38 LONG 094°25'04")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
JAN									
31...	1020	1.70	--	--	--	--	--	--	--
31...	1022	--	--	--	--	--	--	5.20	0.400
31...	1024	--	1.00	0.60	0.030	550	20	--	--
31...	1036	--	1.00	0.70	0.030	510	60	--	--

071947884 LINCOLN LAKE (BEATTY BRANCH ARM) NEAR LINCOLN, ARKANSAS
(LAT 36°00'00" LONG 094°25'34")

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG									
01...	1400	80513	80020	0.0	87	6.5	29.0	3.5	47
01...	1401	80513	80020	1.00	87	6.5	29.0	3.1	41
01...	1402	80513	80020	2.00	87	6.5	29.0	2.9	39
01...	1403	80513	80020	3.00	87	6.5	28.5	2.4	33
01...	1404	80513	80020	4.00	87	6.4	28.0	1.9	26
01...	1405	80513	80020	5.00	88	6.4	28.0	1.2	16
01...	1406	80513	80020	6.00	88	6.3	27.5	0.7	9
01...	1407	80513	80020	7.00	90	6.2	26.5	0.2	3
01...	1408	80513	80020	8.00	88	6.2	25.5	0.2	2
01...	1409	80513	80020	9.00	89	6.2	24.0	0.2	2
01...	1410	80513	80020	10.0	95	6.2	22.5	0.2	2
01...	1411	80513	80020	11.0	100	6.2	21.5	0.2	2
01...	1412	80513	80020	12.0	98	6.2	20.5	0.2	2
01...	1413	80513	80020	13.0	97	6.3	19.5	0.2	2
01...	1414	80513	80020	14.0	94	6.3	18.5	0.2	2
01...	1415	80513	80020	15.0	92	6.3	17.0	0.2	2
01...	1416	80513	80020	16.0	93	6.4	16.5	0.2	2
01...	1417	80513	80020	17.0	93	6.4	15.0	0.2	2
01...	1418	80513	80020	18.0	98	6.4	14.5	0.2	2
01...	1419	80513	80020	19.0	103	6.5	14.0	0.2	2
01...	1420	80513	80020	20.0	110	6.5	13.5	0.2	2
01...	1421	80513	80020	21.0	111	6.6	13.0	0.2	2
01...	1422	80513	80020	22.0	116	6.6	12.0	0.2	2
01...	1423	80513	80020	23.0	122	6.7	11.5	0.2	2
01...	1424	80513	80020	24.0	131	6.8	11.0	0.2	2
01...	1425	80513	80020	25.0	140	6.8	10.5	0.2	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
AUG									
01...	1400	1.70	--	--	--	--	--	--	--
01...	1402	--	--	--	--	--	--	3.70	0.600
01...	1405	--	<0.100	1.3	0.030	250	60	--	--
01...	1420	--	<0.100	1.3	0.260	3200	1500	--	--

ARKANSAS RIVER BASIN--CONTINUED

071947884 LINCOLN LAKE (BEATTY BRANCH ARM) NEAR LINCOLN, ARKANSAS--CONTINUED
(LAT 36°00'00" LONG 094°25'34")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT									
11...	1045	80513	80020	0.0	88	7.3	18.5	7.5	84
11...	1046	80513	80020	1.00	87	7.2	18.5	7.5	84
11...	1047	80513	80020	2.00	87	7.1	18.5	7.4	82
11...	1048	80513	80020	3.00	87	7.1	18.5	7.4	82
11...	1049	80513	80020	4.00	87	7.1	18.5	7.3	82
11...	1050	80513	80020	5.00	88	7.1	18.5	7.3	81
11...	1051	80513	80020	6.00	87	7.1	18.5	7.2	80
11...	1052	80513	80020	7.00	87	7.1	18.5	7.1	79
11...	1053	80513	80020	8.00	87	7.1	18.5	7.0	78
11...	1054	80513	80020	9.00	87	7.1	18.5	6.9	77
11...	1055	80513	80020	10.0	88	7.1	18.5	6.7	75
11...	1056	80513	80020	11.0	88	7.0	18.5	6.7	74
11...	1057	80513	80020	12.0	88	7.0	18.0	6.7	75
11...	1058	80513	80020	13.0	87	7.0	18.0	6.7	74
11...	1059	80513	80020	14.0	88	7.0	18.0	6.5	72
11...	1100	80513	80020	15.0	89	7.0	18.0	6.2	69
11...	1101	80513	80020	16.0	89	6.9	18.0	5.8	63
11...	1102	80513	80020	17.0	92	6.8	17.5	3.3	36
11...	1103	80513	80020	18.0	94	6.7	17.0	1.0	11
11...	1104	80513	80020	19.0	115	6.5	16.0	0.3	3
11...	1105	80513	80020	20.0	131	6.6	14.0	0.2	2
11...	1106	80513	80020	21.0	140	6.6	13.0	0.2	2

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
OCT									
11...	1045	2.10	--	--	--	--	--	--	--
11...	1047	--	--	--	--	--	--	9.00	0.300
11...	1049	--	<0.100	0.70	<0.010	230	90	--	--
11...	1102	--	<0.100	0.70	<0.010	380	180	--	--

ARKANSAS RIVER BASIN--CONTINUED

071947884 LINCOLN LAKE (BEATTY BRANCH ARM) NEAR LINCOLN, ARKANSAS--CONTINUED
(LAT 36°00'00" LONG 094°25'34")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JAN									
31...	1100	80513	80020	0.0	89	7.4	6.5	13.3	113
31...	1101	80513	80020	1.00	89	7.3	6.5	12.9	109
31...	1102	80513	80020	2.00	88	7.3	6.5	12.6	107
31...	1103	80513	80020	3.00	88	7.3	6.5	12.4	105
31...	1104	80513	80020	4.00	88	7.3	6.5	12.3	104
31...	1105	80513	80020	5.00	88	7.2	6.0	12.3	103
31...	1106	80513	80020	6.00	89	7.2	6.0	12.2	103
31...	1107	80513	80020	7.00	89	7.2	6.0	12.2	102
31...	1108	80513	80020	8.00	89	7.2	6.0	12.1	102
31...	1109	80513	80020	9.00	89	7.2	6.0	12.1	101
31...	1110	80513	80020	10.0	89	7.2	6.0	12.0	101
31...	1111	80513	80020	11.0	89	7.2	6.0	12.0	100
31...	1112	80513	80020	12.0	89	7.2	6.0	12.0	100
31...	1113	80513	80020	13.0	89	7.2	6.0	12.0	100
31...	1114	80513	80020	14.0	89	7.2	6.0	11.9	100
31...	1115	80513	80020	15.0	89	7.2	6.0	11.9	100
31...	1116	80513	80020	16.0	89	7.2	6.0	11.9	100
31...	1117	80513	80020	17.0	89	7.2	6.0	11.9	100
31...	1118	80513	80020	18.0	89	7.2	6.0	11.9	100
31...	1119	80513	80020	19.0	89	7.2	6.0	11.8	99
31...	1120	80513	80020	20.0	89	7.1	6.0	11.8	99
31...	1121	80513	80020	21.0	88	7.2	6.0	11.8	99
31...	1122	80513	80020	22.0	89	7.1	6.0	11.8	99
31...	1123	80513	80020	23.0	88	7.2	6.0	11.8	99
31...	1124	80513	80020	24.0	88	7.1	6.0	11.7	98
31...	1125	80513	80020	25.0	89	7.1	6.0	11.6	98
31...	1126	80513	80020	26.0	89	7.1	6.0	11.6	97
31...	1127	80513	80020	27.0	88	7.1	6.0	11.5	96
31...	1128	80513	80020	28.0	90	7.1	6.0	11.2	94

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
JAN							
31...	1100	1.50	--	--	--	--	--
31...	1102	--	--	--	--	3.70	0.200
31...	1106	--	1.30	0.50	0.030	--	--
31...	1123	--	1.30	0.60	0.020	--	--

07258600 BLUE MOUNTAIN LAKE AT THE NARROWS, ARKANSAS
(LAT 35°05'37" LONG 093°48'35")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
13.	0930	80513	80020	0.0	--	--	--	--	--
13.	0931	80513	81213	2.00	156	7.6	3.5	12.3	93
13.	0935	80513	80020	3.00	--	--	--	--	--
MAY									
24.	1200	80513	80020	0.0	--	--	--	--	--
24.	1201	80513	80020	3.00	--	--	--	--	--
24.	1205	80513	80020	13.0	56	6.1	21.0	6.4	73
AUG									
13.	1445	80513	81213	0.0	--	--	--	--	--
13.	1446	80513	80020	3.00	--	--	--	--	--
13.	1450	80513	81213	2.00	171	7.1	26.0	7.5	93

ARKANSAS RIVER BASIN--CONTINUED

07258600 BLUE MOUNTAIN LAKE AT THE NARROWS, ARKANSAS--CONTINUED
(LAT 35°05'37" LONG 093°48'35")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PARENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC								
13.	0930	>1.20	9	--	--	--	--	--
13.	0931	--	--	10	2.3	1.9	45	8.5
MAY								
24.	1200	0.40	110	--	--	--	--	--
24.	1205	--	--	55	19	1.8	16	3.1
AUG								
13.	1445	0.61	37	--	--	--	--	--
13.	1450	--	--	30	12	3.5	43	8.6

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
13.	0931	5.8	55	<0.020	0.060	0.010	--	--
13.	0935	--	--	--	--	--	11.0	<0.200
MAY								
24.	1201	--	--	--	--	--	0.900	<0.100
24.	1205	2.0	16	0.100	0.050	0.030	--	--
AUG								
13.	1446	--	--	--	--	--	14.0	1.90
13.	1450	5.2	53	<0.020	0.090	0.010	--	--

07258699 BLUE MOUNTAIN LAKE AT SUGAR GROVE, ARKANSAS
(LAT 35°04'41" LONG 093°49'05")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
13.	0850	80513	80020	0.0	53	7.5	3.5	12.6	96
MAY									
24.	1000	80513	80020	0.0	--	--	--	--	--
24.	1001	80513	80020	3.00	--	--	--	--	--
24.	1005	80513	80020	10.0	32	5.9	19.0	6.9	76

DATE	TIME	TRANS-PARENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC								
13.	0850	>0.30	12	5	2.0	>1.0	16	2.9
MAY								
24.	1000	0.91	13	--	--	--	--	--
24.	1005	--	--	50	17	1.6	9	1.6

ARKANSAS RIVER BASIN--CONTINUED

07258699 BLUE MOUNTAIN LAKE AT SUGAR GROVE, ARKANSAS--CONTINUED
(LAT 35°04'41" LONG 093°49'05")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
13.	0850	2.2	20	<0.020	0.040	0.010	1.90	<0.100
MAY								
24.	1001	--	--	--	--	--	0.300	<0.100
24.	1005	1.1	8	<0.100	0.030	<0.010	--	--

07258705 BLUE MOUNTAIN LAKE NEAR SUGAR GROVE, ARKANSAS
(LAT 35°05'50" LONG 093°48'08")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
13.	0905	80513	80020	0.0	--	--	--	--	--
13.	0906	80513	81213	2.00	89	7.4	5.0	12.0	95
13.	0910	80513	80020	3.00	--	--	--	--	--
13.	0915	80513	81213	10.0	89	7.4	5.0	11.8	93
MAY									
24.	1100	80513	80020	0.0	--	--	--	--	--
24.	1101	80513	80020	3.00	--	--	--	--	--
24.	1105	80513	80020	9.00	51	5.9	21.0	4.1	47
24.	1110	80513	80020	35.0	77	6.0	16.5	0.6	6
AUG									
13.	1410	80513	81213	0.0	--	--	--	--	--
13.	1411	80513	80020	3.00	--	--	--	--	--
13.	1415	80513	81213	2.00	139	6.7	26.5	5.1	64
13.	1420	80513	81213	8.00	158	6.5	25.5	0.5	6

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC								
13.	0905	1.80	3	--	--	--	--	--
13.	0906	--	--	5	3.1	3.5	27	5.0
13.	0915	--	--	5	3.9	3.6	27	5.0
MAY								
24.	1100	0.98	1	--	--	--	--	--
24.	1105	--	--	45	6.5	1.6	14	2.8
24.	1110	--	--	55	4.9	6.6	18	4.0
AUG								
13.	1410	0.67	28	--	--	--	--	--
13.	1415	--	--	30	11	4.7	50	11
13.	1420	--	--	30	12	2.5	49	10

ARKANSAS RIVER BASIN--CONTINUED

07258705 BLUE MOUNTAIN LAKE NEAR SUGAR GROVE, ARKANSAS--CONTINUED
(LAT 35°05'50" LONG 093°48'08")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC								
13.	0906	3.5	30	<0.020	0.060	0.010	--	--
13.	0910	--	--	--	--	--	21.0	0.400
13.	0915	3.5	29	<0.020	0.060	0.010	--	--
MAY								
24.	1101	--	--	--	--	--	7.50	0.300
24.	1105	1.6	14	<0.100	0.040	0.010	--	--
24.	1110	2.0	22	<0.100	0.070	0.040	--	--
AUG								
13.	1411	--	--	--	--	--	17.0	1.70
13.	1415	5.4	52	<0.020	0.060	0.010	--	--
13.	1420	5.8	54	<0.020	0.050	<0.010	--	--

07258900 BLUE MOUNTAIN LAKE AT ASHLEY CREEK NEAR WAVELAND, ARKANSAS
(LAT 35°06'14" LONG 093°42'26")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
13.	1005	80513	80020	0.0	--	--	--	--	--
13.	1010	80513	80020	1.00	65	7.4	2.5	13.7	101
MAY									
24.	1340	80513	80020	0.0	--	--	--	--	--
24.	1341	80513	80020	3.00	--	--	--	--	--
24.	1345	80513	80020	15.0	64	6.1	21.0	2.8	32
AUG									
14.	0730	80513	81213	0.0	--	--	--	--	--
14.	0735	80513	81213	3.00	61	6.9	25.5	6.2	76

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC								
13.	1005	0.18	10	--	--	--	--	--
13.	1010	--	--	5	11	2.7	21	3.9
MAY								
24.	1340	0.67	6	--	--	--	--	--
24.	1345	--	--	55	12	1.4	12	2.6
AUG								
14.	0730	0.30	6	--	--	--	--	--
14.	0735	--	--	10	24	2.2	19	4.1

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC								
13.	1010	2.7	21	<0.020	0.060	0.020	10.0	1.50
MAY								
24.	1341	--	--	--	--	--	0.500	<0.100
24.	1345	1.4	10	<0.100	0.020	<0.010	--	--
AUG								
14.	0735	2.2	18	<0.020	0.070	0.010	2.50	0.300

ARKANSAS RIVER BASIN--CONTINUED

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, ARKANSAS
(LAT 35°06'06" LONG 093°39'02")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
13.	1030	80513	80020	0.0	--	--	--	--	--
13.	1031	80513	80020	3.00	--	--	--	--	--
13.	1035	80513	81213	7.00	65	7.0	4.5	13.6	106
13.	1040	80513	81213	30.0	63	7.4	4.5	13.3	103
MAY									
24.	1400	80513	80020	0.0	--	--	--	--	--
24.	1401	80513	80020	3.00	--	--	--	--	--
24.	1405	80513	80020	13.0	37	6.0	17.5	5.5	58
24.	1410	80513	80020	52.0	37	5.9	16.0	3.3	34
AUG									
14.	0800	80513	81213	0.0	--	--	--	--	--
14.	0801	80513	80020	3.00	--	--	--	--	--
14.	0805	80513	81213	7.00	63	6.6	25.0	3.0	37
14.	0810	80513	81213	31.0	126	6.6	20.5	0.4	4

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC								
13.	1030	0.36	2	--	--	--	--	--
13.	1035	--	--	5	5.6	1.4	20	3.8
13.	1040	--	--	5	5.8	1.2	20	3.7
MAY								
24.	1400	0.61	2	--	--	--	--	--
24.	1405	--	--	60	11	1.6	11	2.4
24.	1410	--	--	90	17	1.6	12	2.6
AUG								
14.	0800	0.49	K11	--	--	--	--	--
14.	0805	--	--	80	16	2.3	20	4.2
14.	0810	--	--	320	19	3.7	28	6.4

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
13.	1031	--	--	--	--	--	5.50	0.200
13.	1035	2.6	20	<0.020	0.040	0.010	--	--
13.	1040	2.7	20	<0.020	0.040	0.010	--	--
MAY								
24.	1401	--	--	--	--	--	1.30	<0.100
24.	1405	1.3	10	<0.100	0.030	0.020	--	--
24.	1410	1.4	13	<0.100	0.050	0.030	--	--
AUG								
14.	0801	--	--	--	--	--	4.40	0.600
14.	0805	2.4	19	<0.020	0.050	0.010	--	--
14.	0810	3.0	38	<0.020	0.080	0.040	--	--

ARKANSAS RIVER BASIN--CONTINUED

07259001 PETIT JEAN RIVER NEAR WAVELAND, ARKANSAS
(LAT 35°06'06" LONG 093°39'02")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC										
13...	1100	80513	81213	63	8.0	4.5	14.1	110	1	5
MAY										
24...	1300	80513	80020	37	5.8	17.0	9.6	101	1	90
AUG										
14...	0830	80513	81213	80	6.8	24.0	6.6	79	160	80

DATE	TIME	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC										
13...	1100	4.6	1.7	21	4.0	2.6	19	0.040	0.040	0.010
MAY										
24...	1300	18	1.3	11	2.4	1.3	11	<0.100	0.030	0.020
AUG										
14...	0830	18	3.7	23	5.2	2.5	27	0.020	0.090	0.030

07261820 NIMROD LAKE AT HIGHWAY 27 BRIDGE, ARKANSAS
(LAT 34°55'36" LONG 093°24'36")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
12.	1230	80513	80020	0.0	--	--	--	--	--
12.	1231	80513	81213	2.00	49	7.3	4.0	13.8	106
12.	1235	80513	80020	3.00	--	--	--	--	--
MAY									
02.	1315	80513	80020	0.0	--	--	--	--	--
02.	1316	80513	80020	3.00	--	--	--	--	--
02.	1320	80513	81213	13.0	29	6.4	14.0	9.7	95
AUG									
15.	1150	80513	81213	0.0	--	--	--	--	--
15.	1155	80513	81213	3.00	56	6.2	27.0	6.4	81

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC								
12.	1230	>1.20	10	--	--	--	--	--
12.	1231	--	--	5	2.8	0.5	15	2.3
MAY								
02.	1315	0.06	K3900	--	--	--	--	--
02.	1320	--	--	70	38	2.5	9	1.8
AUG								
15.	1150	0.70	23	--	--	--	--	--
15.	1155	--	--	10	4.5	2.0	16	2.4

ARKANSAS RIVER BASIN--CONTINUED

07261820 NIMROD LAKE AT HIGHWAY 27 BRIDGE, ARKANSAS--CONTINUED
(LAT 34°55'36" LONG 093°24'36")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
12.	1231	2.2	16	<0.020	0.040	0.010	--	--
12.	1235	--	--	--	--	--	0.600	<0.100
MAY								
02.	1316	--	--	--	--	--	0.100	<0.100
02.	1320	1.1	8	0.090	0.090	0.070	--	--
AUG								
15.	1155	2.4	19	0.040	0.040	0.020	3.40	0.500

07261880 NIMROD LAKE AT PLAINVIEW, ARKANSAS
(LAT 34°59'03" LONG 093°18'36")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
12.	1250	80513	80020	0.0	--	--	--	--	--
12.	1251	80513	80020	1.00	114	7.0	4.0	9.7	75
MAY									
02.	1130	80513	80020	0.0	--	--	--	--	--
02.	1131	80513	80020	3.00	--	--	--	--	--
02.	1135	80513	81213	7.00	30	6.6	13.5	10.7	104
AUG									
15.	1245	80513	81213	0.0	--	--	--	--	--
15.	1250	80513	81213	1.00	135	6.2	26.5	3.0	38

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC								
12.	1250	>0.61	12	--	--	--	--	--
12.	1251	--	--	5	4.1	0.9	34	5.7
MAY								
02.	1130	0.06	K5100	--	--	--	--	--
02.	1135	--	--	100	98	3.1	10	2.0
AUG								
15.	1245	>0.61	120	--	--	--	--	--
15.	1250	--	--	10	3.4	3.4	38	7.1

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
12.	1251	4.8	37	<0.020	0.040	0.010	7.90	<0.300
MAY								
02.	1131	--	--	--	--	--	0.300	<0.100
02.	1135	1.2	8	0.080	0.350	0.220	--	--
AUG								
15.	1250	4.9	49	0.110	0.080	0.040	8.00	2.40

ARKANSAS RIVER BASIN--CONTINUED

07261910 NIMROD LAKE NEAR WARDS CROSSING, ARKANSAS
(LAT 34°57'03" LONG 093°19'24")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
12.	1200	80513	80020	0.0	--	--	--	--	--
12.	1205	80513	80020	3.00	48	6.8	5.0	13.6	106
MAY									
02.	1210	80513	80020	0.0	--	--	--	--	--
02.	1211	80513	80020	3.00	--	--	--	--	--
02.	1215	80513	81213	11.0	28	6.4	18.0	8.1	86
AUG									
15.	1225	80513	81213	0.0	--	--	--	--	--
15.	1226	80513	80020	3.00	--	--	--	--	--
15.	1230	80513	81213	6.00	66	6.2	27.0	0.9	11

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC								
12.	1200	0.67	8	--	--	--	--	--
12.	1205	--	--	5	7.1	3.0	13	2.3
MAY								
02.	1210	0.58	5	--	--	--	--	--
02.	1215	--	--	50	14	2.3	9	1.8
AUG								
15.	1225	0.40	23	--	--	--	--	--
15.	1230	--	--	30	21	2.5	16	3.1

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC								
12.	1205	1.8	13	<0.020	0.080	0.020	9.20	0.400
MAY								
02.	1211	--	--	--	--	--	1.60	<0.100
02.	1215	1.1	7	0.050	<0.020	0.030	--	--
AUG								
15.	1226	--	--	--	--	--	10.0	1.50
15.	1230	2.0	18	<0.020	0.070	0.030	--	--

07261925 NIMROD LAKE ON PRAIRIE CREEK, ARKANSAS
(LAT 34°56'54" LONG 093°17'12")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
12.	1100	80513	80020	0.0	--	--	--	--	--
12.	1101	80513	81213	2.00	39	7.5	4.5	13.8	107
12.	1105	80513	80020	3.00	--	--	--	--	--
MAY									
02.	1230	80513	80020	0.0	--	--	--	--	--
02.	1231	80513	80020	3.00	--	--	--	--	--
02.	1235	80513	81213	10.0	29	6.3	18.0	7.3	78
AUG									
15.	1400	80513	81213	0.0	--	--	--	--	--
15.	1401	80513	81213	2.00	36	6.6	28.5	6.3	82
15.	1405	80513	80020	3.00	--	--	--	--	--

ARKANSAS RIVER BASIN--CONTINUED

07261925 NIMROD LAKE ON PRAIRIE CREEK, ARKANSAS--CONTINUED
(LAT 34°56'54" LONG 093°17'12")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC								
12.	1100	0.49	2	--	--	--	--	--
12.	1101	--	--	5	6.0	2.7	11	1.9
MAY								
02.	1230	0.46	4	--	--	--	--	--
02.	1235	--	--	40	15	1.8	9	1.8
AUG								
15.	1400	0.37	33	--	--	--	--	--
15.	1401	--	--	10	9.8	2.7	10	2.0

DATE	TIME	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC								
12.	1101	1.5	11	<0.020	0.060	0.020	--	--
12.	1105	--	--	--	--	--	2.60	<0.100
MAY								
02.	1231	--	--	--	--	--	1.70	<0.100
02.	1235	1.1	7	0.050	<0.020	0.030	--	--
AUG								
15.	1401	1.3	11	<0.020	0.050	0.030	--	--
15.	1405	--	--	--	--	--	5.20	0.900

07261950 NIMROD LAKE NEAR CARTER COVE, ARKANSAS
(LAT 34°57'22" LONG 093°14'56")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
12.	1025	80513	80020	0.0	--	--	--	--	--
12.	1030	80513	80020	1.00	38	6.1	5.0	13.8	107
MAY									
02.	1100	80513	80020	0.0	--	--	--	--	--
02.	1101	80513	80020	3.00	--	--	--	--	--
02.	1105	80513	81213	5.00	33	6.5	17.5	8.4	89
AUG									
15.	1330	80513	81213	0.0	--	--	--	--	--
15.	1335	80513	81213	1.00	37	7.3	30.0	8.8	118

DATE	TIME	TRANS-PARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
DEC								
12.	1025	0.49	1	--	--	--	--	--
12.	1030	--	--	5	5.7	1.1	11	1.9
MAY								
02.	1100	1.00	6	--	--	--	--	--
02.	1105	--	--	40	8.4	1.8	9	1.8
AUG								
15.	1330	0.55	2	--	--	--	--	--
15.	1335	--	--	<5	5.4	2.2	10	2.0

ARKANSAS RIVER BASIN--CONTINUED

07261950 NIMROD LAKE NEAR CARTER COVE, ARKANSAS--CONTINUED
(LAT 34°57'22" LONG 093°14'56")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
12.	1030	1.5	11	<0.020	0.050	0.010	5.30	0.200
MAY								
02.	1101	--	--	--	--	--	1.50	<0.100
02.	1105	1.2	9	0.020	<0.020	0.010	--	--
AUG								
15.	1335	1.3	14	<0.020	0.030	0.020	6.30	0.600

07262000 NIMROD LAKE NEAR NIMROD, ARKANSAS
(LAT 34°57'07" LONG 093°09'38")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
12.	0935	80513	80020	0.0	--	--	--	--	--
12.	0936	80513	80020	3.00	--	--	--	--	--
12.	0940	80513	81213	7.00	38	7.0	7.0	11.5	96
12.	0945	80513	81213	27.0	39	7.0	7.0	11.2	93
MAY									
03.	0915	80513	80020	0.0	--	--	--	--	--
03.	0916	80513	80020	3.00	--	--	--	--	--
03.	0920	80513	81213	13.0	34	6.1	15.5	5.9	60
03.	0925	80513	81213	51.0	33	6.1	14.5	5.7	57
AUG									
15.	1450	80513	81213	0.0	--	--	--	--	--
15.	1451	80513	80020	3.00	--	--	--	--	--
15.	1455	80513	81213	7.00	39	6.7	27.5	3.7	47
15.	1500	80513	81213	28.0	51	6.2	26.0	0.4	5

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC								
12.	0935	1.40	3	--	--	--	--	--
12.	0940	--	--	5	2.6	0.8	11	1.9
12.	0945	--	--	5	3.1	0.8	11	2.0
MAY								
03.	0915	0.76	44	--	--	--	--	--
03.	0920	--	--	40	11	1.7	10	2.0
03.	0925	--	--	50	12	1.3	10	1.8
AUG								
15.	1450	0.64	0	--	--	--	--	--
15.	1455	--	--	10	4.4	2.1	11	2.2
15.	1500	--	--	30	21	1.3	12	2.4

ARKANSAS RIVER BASIN--CONTINUED

07262000 NIMROD LAKE NEAR NIMROD, ARKANSAS--CONTINUED
(LAT 34°57'07" LONG 093°09'38")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC								
12.	0936	--	--	--	--	--	5.50	0.300
12.	0940	1.5	11	<0.020	0.040	0.010	--	--
12.	0945	1.5	10	0.020	0.040	0.010	--	--
MAY								
03.	0916	--	--	--	--	--	<0.100	0.500
03.	0920	1.3	9	0.030	<0.020	0.020	--	--
03.	0925	1.3	9	0.030	<0.020	0.020	--	--
AUG								
15.	1451	--	--	--	--	--	12.0	1.10
15.	1455	1.4	13	0.060	0.040	0.010	--	--
15.	1500	1.5	18	0.020	0.040	0.020	--	--

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, ARKANSAS
(LAT 34°57'02" LONG 093°09'16")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
DEC										
12...	0900	80513	81213	47	6.9	1.5	13.4	97	1	5
MAY										
03...	1000	80513	81213	28	6.5	15.0	10.3	103	K490	50
AUG										
15...	1525	80513	81213	46	6.3	27.0	7.3	92	71	40

DATE	TIME	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC										
12...	0900	3.6	0.8	12	2.3	1.6	12	0.050	0.040	0.010
MAY										
03...	1000	32	2.0	9	1.8	1.1	8	0.050	<0.020	0.050
AUG										
15...	1525	11	1.6	13	2.6	1.5	16	0.080	0.040	0.020

RED RIVER BASIN

07339430 DEQUEEN LAKE AT ROBINSON CREEK NEAR GILLHAM, ARKANSAS
(LAT 34°09'49" LONG 094°24'18")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
DEC										
20.	0945	80513	80020	0.0	--	--	--	--	--	1.70
20.	0946	80513	80020	3.00	--	--	--	--	--	--
20.	0950	80513	81213	6.00	42	6.9	5.5	11.9	95	--
MAY										
23.	1520	80513	80020	0.0	--	--	--	--	--	1.60
23.	1521	80513	80020	3.00	--	--	--	--	--	--
23.	1525	80513	80020	17.0	27	6.2	19.5	8.2	91	--
AUG										
15.	0755	80513	81213	0.0	--	--	--	--	--	1.00
15.	0756	80513	80020	3.00	--	--	--	--	--	--
15.	0800	80513	81213	4.00	55	6.5	27.0	6.2	79	--

RED RIVER BASIN--CONTINUED

07339430 DEQUEEN LAKE AT ROBINSON CREEK NEAR GILLHAM, ARKANSAS--CONTINUED
(LAT 34°09'49" LONG 094°24'18")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC										
20.	0945	1	--	--	--	--	--	--	--	--
20.	0950	--	5	2.8	0.9	12	2.8	1.1	13	3.0
MAY										
23.	1520	9	--	--	--	--	--	--	--	--
23.	1525	--	15	5.0	1.2	8	1.7	0.80	8	3.0
AUG										
15.	0755	3	--	--	--	--	--	--	--	--
15.	0800	--	10	3.1	2.4	13	3.4	1.2	18	2.7

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
20.	0950	2.7	0.550	0.060	0.040	40	<1	<10	<1
MAY									
23.	1525	1.7	0.100	0.060	0.010	210	<1	<1	1
AUG									
15.	0800	2.9	0.150	0.070	0.040	40	<1	2	1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
20.	0946	--	--	--	--	--	--	3.50	0.100
20.	0950	200	<1	30	<0.10	1	<10	--	--
MAY									
23.	1521	--	--	--	--	--	--	3.60	0.100
23.	1525	280	<1	20	<0.10	<1	<10	--	--
AUG									
15.	0756	--	--	--	--	--	--	4.60	0.600
15.	0800	220	<1	50	<0.10	<1	10	--	--

07339440 DEQUEEN LAKE AT BELLAH CREEK NEAR KELLUM, ARKANSAS
(LAT 34°07'07" LONG 094°23'10")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
20...	0920	80513	80020	0.0	--	--	--	--	--
20...	0921	80513	80020	3.00	--	--	--	--	--
20...	0925	80513	81213	8.00	38	7.2	6.5	11.7	95
20...	0930	80513	81213	32.0	36	7.0	6.5	11.3	92
MAY									
23...	1500	80513	80020	0.0	--	--	--	--	--
23...	1501	80513	80020	3.00	--	--	--	--	--
23...	1505	80513	80020	17.0	31	5.8	18.5	6.3	68
23...	1510	80513	80020	68.0	33	5.8	15.5	3.6	37
AUG									
15...	0815	80513	81213	0.0	--	--	--	--	--
15...	0816	80513	80020	3.00	--	--	--	--	--
15...	0820	80513	81213	8.00	40	6.8	27.5	7.3	94
15...	0825	80513	81213	32.0	63	6.3	22.5	0.4	5

RED RIVER BASIN--CONTINUED

07339440 DEQUEEN LAKE AT BELLAH CREEK NEAR KELLUM, ARKANSAS--CONTINUED
(LAT 34°07'07" LONG 094°23'10")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
DEC									
20...	0920	1.40	0	--	--	--	--	--	--
20...	0925	--	--	<5	2.9	0.8	11	2.5	1.1
20...	0930	--	--	5	2.8	0.8	11	2.6	1.1
MAY									
23...	1500	2.10	3	--	--	--	--	--	--
23...	1505	--	--	25	5.1	1.2	9	2.0	0.90
23...	1510	--	--	30	7.2	1.0	9	2.1	0.90
AUG									
15...	0815	1.70	0	--	--	--	--	--	--
15...	0820	--	--	5	1.6	1.9	11	2.8	1.0
15...	0825	--	--	75	4.6	2.0	13	3.4	1.2

DATE	TIME	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC									
20...	0921	--	--	--	--	--	--	4.00	0.200
20...	0925	13	3.0	2.2	0.190	0.020	0.010	--	--
20...	0930	13	--	2.2	0.190	0.020	0.010	--	--
MAY									
23...	1501	--	--	--	--	--	--	4.30	<0.100
23...	1505	8	2.9	1.7	<0.100	0.070	<0.010	--	--
23...	1510	9	2.9	1.4	0.100	0.090	0.030	--	--
AUG									
15...	0816	--	--	--	--	--	--	5.30	0.300
15...	0820	14	2.5	1.9	<0.020	0.030	0.010	--	--
15...	0825	22	0.30	3.0	<0.020	0.070	0.070	--	--

07339450 DEQUEEN LAKE NEAR DEQUEEN, ARKANSAS
(LAT 34°05'53" LONG 094°22'51")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
DEC										
20.	0825	80513	80020	0.0	--	--	--	--	--	1.50
20.	0826	80513	80020	3.00	--	--	--	--	--	--
20.	0830	80513	81213	10.0	37	6.8	7.0	11.7	97	--
20.	0835	80513	81213	40.0	37	6.8	7.0	11.0	91	--
MAY										
23.	1440	80513	80020	0.0	--	--	--	--	--	2.00
23.	1441	80513	80020	3.00	--	--	--	--	--	--
23.	1445	80513	80020	20.0	32	6.1	18.0	6.4	69	--
23.	1450	80513	80020	80.0	33	5.9	15.5	3.7	38	--
AUG										
15.	0830	80513	81213	0.0	--	--	--	--	--	1.80
15.	0831	80513	80020	3.00	--	--	--	--	--	--
15.	0835	80513	81213	10.0	39	6.9	28.0	8.1	105	--
15.	0840	80513	81213	42.0	59	6.3	21.0	0.5	6	--

RED RIVER BASIN--CONTINUED

07339450 DEQUEEN LAKE NEAR DEQUEEN, ARKANSAS--CONTINUED
(LAT 34°05'53" LONG 094°22'51")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC										
20.	0825	1	--	--	--	--	--	--	--	--
20.	0830	--	5	2.9	0.4	11	2.5	1.1	13	3.0
20.	0835	--	5	2.8	0.5	--	--	1.1	12	3.0
MAY										
23.	1440	13	--	--	--	--	--	--	--	--
23.	1445	--	12	1.6	1.9	9	2.2	0.90	8	2.9
23.	1450	--	22	5.6	1.0	9	2.2	0.90	8	2.8
AUG										
15.	0830	0	--	--	--	--	--	--	--	--
15.	0835	--	10	1.3	1.6	11	2.8	1.0	11	2.5
15.	0840	--	70	2.8	2.6	13	3.3	1.1	19	1.8

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
20.	0830	1.2	0.140	0.020	0.010	40	<1	<10	<1
20.	0835	2.1	0.140	0.020	0.010	40	<1	<10	1
MAY									
23.	1445	1.7	<0.100	<0.010	<0.010	70	<1	<1	1
23.	1450	0.90	0.100	0.020	0.020	220	<1	1	1
AUG									
15.	0835	1.8	<0.020	0.020	0.010	30	<1	1	1
15.	0840	1.7	<0.020	0.070	0.060	40	2	2	<1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
20.	0826	--	--	--	--	--	--	3.30	<0.100
20.	0830	210	1	30	<0.10	1	10	--	--
20.	0835	200	<1	30	<0.10	1	<10	--	--
MAY									
23.	1441	--	--	--	--	--	--	2.60	<0.100
23.	1445	180	<1	30	<0.10	<1	10	--	--
23.	1450	550	<1	180	<0.10	<1	10	--	--
AUG									
15.	0831	--	--	--	--	--	--	5.00	0.500
15.	0835	40	<1	20	<0.10	<1	10	--	--
15.	0840	2800	<1	650	<0.10	<1	10	--	--

07339452 ROLLING FORK RIVER BELOW DEQUEEN LAKE NEAR DEQUEEN, ARKANSAS
(LAT 34°05'51" LONG 094°22'50")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)
DEC											
20...	0800	80513	81213	37	6.1	6.5	13.2	107	3	5	3.0
MAY											
23...	1410	80513	80020	32	6.0	16.0	10.5	108	1	25	6.6
AUG											
15...	0905	80513	81213	40	6.7	27.5	7.3	93	21	5	110

RED RIVER BASIN--CONTINUED

07339452 ROLLING FORK RIVER BELOW DEQUEEN LAKE NEAR DEQUEEN, ARKANSAS--CONTINUED
(LAT 34°05'51" LONG 094°22'50")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC											
20...	0800	0.5	11	2.6	1.1	12	3.0	2.1	0.150	0.020	0.010
MAY											
23...	1410	0.9	8	1.9	0.90	8	2.9	1.0	0.100	0.020	0.020
AUG											
15...	0905	1.8	11	2.7	1.1	13	2.3	1.7	0.030	0.050	0.020

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
DEC											
20...	0800	40	<1	<10	<1	190	<1	40	<0.10	1	10
MAY											
23...	1410	180	<1	<1	7	450	<1	140	<0.10	<1	<10
AUG											
15...	0905	40	<1	1	1	520	<1	150	<0.10	<1	<10

07340430 GILLHAM LAKE AT DUCKETT FORD NEAR UMPIRE, ARKANSAS
(LAT 34°15'46" LONG 094°11'34")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
DEC										
20.	1245	80513	80020	0.0	--	--	--	--	--	1.20
20.	1250	80513	80020	3.00	41	7.0	4.0	13.1	101	--
MAY										
23.	1130	80513	80020	0.0	--	--	--	--	--	1.80
23.	1245	80513	80020	0.0	--	--	--	--	--	0.98
23.	1246	80513	80020	3.00	--	--	--	--	--	--
23.	1250	80513	80020	23.0	23	6.4	17.5	9.4	100	--
AUG										
13.	1430	80513	81213	0.0	--	--	--	--	--	1.20
13.	1435	80513	80020	3.00	55	6.6	29.5	7.7	103	--

DATE	TIME	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC										
20.	1245	1	--	--	--	--	--	--	--	--
20.	1250	--	5	2.3	2.6	16	4.2	1.3	17	2.8
MAY										
23.	1130	6	--	--	--	--	--	--	--	--
23.	1245	28	--	--	--	--	--	--	--	--
23.	1250	--	25	8.5	1.2	6	1.3	0.70	6	2.6
AUG										
13.	1430	4	--	--	--	--	--	--	--	--
13.	1435	--	10	2.1	1.3	19	5.1	1.6	20	2.7

RED RIVER BASIN--CONTINUED

07340430 GILLHAM LAKE AT DUCKETT FORD NEAR UMPIRE, ARKANSAS--CONTINUED
(LAT 34°15'46" LONG 094°11'34")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
20.	1250	1.8	0.060	0.030	0.010	30	<1	<10	1
MAY									
23.	1250	1.3	<0.100	<0.010	<0.010	290	<1	<1	1
AUG									
13.	1435	2.5	<0.020	0.030	0.010	90	<1	1	<1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
20.	1250	310	<1	50	<0.10	2	10	22.0	<0.500
MAY									
23.	1246	--	--	--	--	--	--	1.00	<0.100
23.	1250	290	<1	20	<0.10	<1	10	--	--
AUG									
13.	1435	230	<1	30	<0.10	<1	<10	4.30	0.600

07340435 GILLHAM LAKE (OPOSSUM CK. ARM) NEAR DUCKETT, ARKANSAS
(LAT 34°15'14" LONG 094°13'08")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC									
20...	1310	80513	80020	0.0	--	--	--	--	--
20...	1311	80513	80020	3.00	--	--	--	--	--
20...	1315	80513	81213	9.00	40	7.1	4.5	13.2	103
MAY									
23...	1225	80513	80020	0.0	--	--	--	--	--
23...	1226	80513	80020	3.00	--	--	--	--	--
23...	1230	80513	80020	30.0	34	6.2	17.5	7.6	81
AUG									
13...	1450	80513	81213	0.0	--	--	--	--	--
13...	1451	80513	80020	3.00	--	--	--	--	--
13...	1455	80513	81213	9.00	46	6.0	28.5	2.5	33

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
DEC									
20...	1310	1.30	0	--	--	--	--	--	--
20...	1315	--	--	5	1.7	2.6	15	4.0	1.3
MAY									
23...	1225	1.70	5	--	--	--	--	--	--
23...	1230	--	--	45	10	1.4	8	1.9	0.90
AUG									
13...	1450	1.20	K3	--	--	--	--	--	--
13...	1455	--	--	10	2.5	1.8	14	3.6	1.2

RED RIVER BASIN--CONTINUED

07340435 GILLHAM LAKE (OPOSSUM CK. ARM) NEAR DUCKETT, ARKANSAS--CONTINUED
(LAT 34°15'14" LONG 094°13'08")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
20...	1311	--	--	--	--	--	--	22.0	<0.500
20...	1315	17	--	1.9	0.070	0.030	0.010	--	--
MAY									
23...	1226	--	--	--	--	--	--	1.00	<0.100
23...	1230	9	2.5	2.1	0.400	0.040	0.030	--	--
AUG									
13...	1451	--	--	--	--	--	--	8.00	1.30
13...	1455	15	2.1	1.7	<0.020	0.040	0.020	--	--

07340440 GILLHAM LAKE ABOVE COON CREEK NEAR DIERKS, ARKANSAS
(LAT 34°13'53" LONG 094°13'54")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)
DEC									
20...	1330	80513	80020	0.0	--	--	--	--	--
20...	1336	80513	80020	3.00	--	--	--	--	--
20...	1340	80513	81213	12.0	39	6.9	7.0	10.7	89
20...	1345	80513	81213	48.0	38	6.8	7.0	10	83
MAY									
23...	1200	80513	80020	0.0	--	--	--	--	--
23...	1201	80513	80020	3.00	--	--	--	--	--
23...	1205	80513	80020	21.0	28	6.3	18.0	7.2	77
23...	1210	80513	80020	84.0	29	6.0	15.0	5.4	54
AUG									
13...	1510	80513	81213	0.0	--	--	--	--	--
13...	1511	80513	80020	3.00	--	--	--	--	--
13...	1515	80513	81213	12.0	36	6.2	27.5	5.3	68
13...	1520	80513	81213	48.0	38	5.7	18.5	0.5	5

DATE	TIME	TRANSPARENCY (SECCHI DISK) (M) (00078)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)
DEC									
20...	1330	1.80	0	--	--	--	--	--	--
20...	1340	--	--	5	2.5	0.5	14	3.6	1.3
20...	1345	--	--	<5	3.2	0.5	15	3.7	1.3
MAY									
23...	1200	2.10	1	--	--	--	--	--	--
23...	1205	--	--	25	7.2	1.3	8	1.8	0.80
23...	1210	--	--	25	6.2	1.6	8	1.7	0.80
AUG									
13...	1510	1.20	K3	--	--	--	--	--	--
13...	1515	--	--	5	1.4	1.9	12	3.0	1.0
13...	1520	--	--	100	5.3	1.9	15	3.8	1.3

RED RIVER BASIN--CONTINUED

07340440 GILLHAM LAKE ABOVE COON CREEK NEAR DIERKS, ARKANSAS--CONTINUED
(LAT 34°13'53" LONG 094°13'54")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
20...	1336	--	--	--	--	--	--	4.40	0.200
20...	1340	14	--	1.7	0.090	0.020	0.010	--	--
20...	1345	15	--	1.8	0.090	0.020	0.010	--	--
MAY									
23...	1201	--	--	--	--	--	--	0.500	<0.100
23...	1205	8	2.7	1.4	<0.100	0.010	<0.010	--	--
23...	1210	7	2.6	1.4	0.100	0.030	0.010	--	--
AUG									
13...	1511	--	--	--	--	--	--	5.20	0.300
13...	1515	13	2.3	1.6	<0.020	0.060	0.010	--	--
13...	1520	27	1.4	1.8	<0.020	0.120	0.110	--	--

07340450 GILLHAM LAKE NEAR GILLHAM, ARKANSAS
(LAT 34°12'37" LONG 094°13'44")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
DEC										
20.	1200	80513	80020	0.0	--	--	--	--	--	1.60
20.	1201	80513	80020	3.00	--	--	--	--	--	--
20.	1205	80513	81213	12.0	38	6.8	7.0	10.6	88	--
20.	1210	80513	81213	48.0	38	6.8	7.5	10.1	84	--
MAY										
23.	1131	80513	80020	3.00	--	--	--	--	--	--
23.	1135	80513	80020	23.0	27	6.3	17.5	7.4	79	--
23.	1140	80513	80020	92.0	28	6.1	15.0	6.0	60	--
AUG										
13.	1535	80513	81213	0.0	--	--	--	--	--	1.50
13.	1536	80513	80020	3.00	--	--	--	--	--	--
13.	1540	80513	81213	12.0	35	6.8	28.0	6.5	85	--
13.	1545	80513	81213	48.0	60	6.0	19.0	0.5	5	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC										
20.	1200	0	--	--	--	--	--	--	--	--
20.	1205	--	<5	2.7	0.4	14	3.5	1.2	15	2.7
20.	1210	--	5	2.9	0.7	14	3.6	1.2	15	2.7
MAY										
23.	1135	--	25	7.2	1.7	8	1.7	0.80	7	2.6
23.	1140	--	30	8.1	1.5	8	1.7	0.80	7	2.6
AUG										
13.	1535	3	--	--	--	--	--	--	--	--
13.	1540	--	5	0.71	1.8	11	2.9	1.0	12	2.3
13.	1545	--	75	6.6	1.6	13	3.3	1.2	21	1.5

RED RIVER BASIN--CONTINUED

07340450 GILLHAM LAKE NEAR GILLHAM, ARKANSAS--CONTINUED
(LAT 34°12'37" LONG 094°13'44")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
20.	1205	1.8	0.100	0.020	0.010	40	<1	<10	<1
20.	1210	1.7	0.100	0.020	0.010	40	<1	<10	1
MAY									
23.	1135	1.4	<0.100	0.010	<0.010	340	<1	<1	2
23.	1140	1.3	0.100	0.020	0.010	320	<1	<1	47
AUG									
13.	1540	1.6	<0.020	0.020	<0.010	30	<1	1	1
13.	1545	1.5	<0.020	0.090	0.090	80	3	2	<1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
20.	1201	--	--	--	--	--	--	3.80	0.200
20.	1205	190	<1	40	<0.10	1	10	--	--
20.	1210	220	1	40	<0.10	3	60	--	--
MAY									
23.	1131	--	--	--	--	--	--	0.500	<0.100
23.	1135	380	1	30	<0.10	<1	10	--	--
23.	1140	470	12	100	<0.10	<1	20	--	--
AUG									
13.	1536	--	--	--	--	--	--	4.50	0.300
13.	1540	60	1	40	<0.10	<1	<10	--	--
13.	1545	3400	<1	1000	<0.10	<1	<10	--	--

07340452 COSSATOT RIVER BELOW GILLHAM DAM NEAR GILLHAM, ARKANSAS
(LAT 34°12'32" LONG 094°13'40")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)
DEC											
20...	1130	80513	81213	37	6.9	7.0	13.2	110	5	5	2.1
MAY											
23...	1100	80513	80020	28	6.3	16.0	10.6	109	K210	30	7.1
AUG											
13...	1615	80513	81213	36	6.5	27.5	7.8	100	20	5	1.5

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC											
20...	1130	1.1	13	3.3	1.2	15	2.7	1.7	0.120	0.020	0.010
MAY											
23...	1100	1.2	8	1.7	0.80	7	2.7	1.3	<0.100	0.020	<0.010
AUG											
13...	1615	2.4	11	2.7	1.0	13	2.2	1.5	<0.020	0.020	<0.010

RED RIVER BASIN--CONTINUED

07340452 COSSATOT RIVER BELOW GILLHAM DAM NEAR GILLHAM, ARKANSAS--CONTINUED
(LAT 34°12'32" LONG 094°13'40")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
DEC											
20...	1130	30	<1	<10	<1	190	<1	50	<0.10	2	10
MAY											
23...	1100	380	<1	<1	1	480	<1	80	<0.10	1	20
AUG											
13...	1615	60	<1	1	<1	280	<1	280	<0.10	<1	<10

07340595 LITTLE RIVER NEAR WILTON, ARKANSAS
(LAT 33°47'00" LONG 094°08'54")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
DEC										
19.	0930	80513	80020	0.0	--	--	--	--	--	1.70
19.	0935	80513	80020	3.00	128	7.7	3.0	14.1	105	--
19.	0940	80513	81213	11.0	132	7.6	3.0	14.0	103	--
MAY										
22.	1730	80513	80020	0.0	--	--	--	--	--	0.37
22.	1731	80513	80020	3.00	--	--	--	--	--	--
22.	1735	80513	80020	6.00	44	6.3	20.0	7.2	80	--
22.	1740	80513	80020	26.0	44	6.3	20.0	6.9	77	--
AUG										
14.	0810	80513	81213	0.0	--	--	--	--	--	0.85
14.	0815	80513	80020	3.00	48	6.3	27.0	7.4	94	--
14.	0820	80513	81213	13.0	49	6.3	27.0	6.7	85	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC										
19.	0930	3	--	--	--	--	--	--	--	--
19.	0935	--	5	3.7	0.6	24	6.8	1.8	22	4.9
19.	0940	--	5	2.9	0.6	27	7.7	2.0	22	5.7
MAY										
22.	1730	K210	--	--	--	--	--	--	--	--
22.	1735	--	50	23	1.9	14	3.7	1.1	12	3.4
22.	1740	--	55	20	1.7	13	3.6	1.0	12	3.4
AUG										
14.	0810	17	--	--	--	--	--	--	--	--
14.	0815	--	30	2.4	1.2	13	3.3	1.2	12	2.9
14.	0820	--	30	2.5	1.1	13	3.4	1.2	11	2.9

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
19.	0935	19	<0.020	0.030	0.020	40	<1	<10	<1
19.	0940	--	<0.020	0.040	0.020	30	<1	<10	<1
MAY									
22.	1735	2.3	0.100	0.060	0.040	940	<1	2	2
22.	1740	2.3	0.100	0.060	0.041	900	<1	1	2
AUG									
14.	0815	4.2	0.170	0.040	0.020	200	<1	2	<1
14.	0820	4.2	0.180	0.050	0.020	190	<1	2	<1

RED RIVER BASIN--CONTINUED

07340595 LITTLE RIVER NEAR WILTON, ARKANSAS--CONTINUED
(LAT 33°47'00" LONG 094°08'54")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC									
19.	0935	650	<1	70	<0.10	<1	<10	4.00	0.200
19.	0940	470	<1	40	<0.10	1	<10	--	--
MAY									
22.	1731	--	--	--	--	--	--	0.500	<0.100
22.	1735	1600	2	90	<0.10	2	20	--	--
22.	1740	1600	2	100	<0.10	1	10	--	--
AUG									
14.	0815	760	<1	100	<0.10	<1	10	2.50	0.300
14.	0820	760	<1	120	<0.10	<1	<10	--	--

07340800 MILLWOOD LAKE AT YARBOROUGH LANDING NEAR ASHDOWN, ARKANSAS
(LAT 33°43'29" LONG 094°01'05")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
DEC										
19.	1030	80513	80020	0.0	--	--	--	--	--	1.20
19.	1031	80513	80020	3.00	--	--	--	--	--	--
19.	1035	80513	81213	12.0	104	7.5	5.0	12.2	95	--
MAY										
22.	1350	80513	80020	0.0	--	--	--	--	--	0.91
22.	1351	80513	80020	3.00	--	--	--	--	--	--
22.	1355	80513	80020	21.0	39	6.3	19.5	5.3	58	--
AUG										
14.	0925	80513	81213	0.0	--	--	--	--	--	0.64
14.	0926	80513	80020	3.00	--	--	--	--	--	--
14.	0930	80513	81213	13.0	44	5.8	27.0	6.4	81	--

DATE	TIME	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC										
19.	1030	5	--	--	--	--	--	--	--	--
19.	1035	--	5	6.9	0.7	24	6.6	1.8	20	4.7
MAY										
22.	1350	9	--	--	--	--	--	--	--	--
22.	1355	--	35	10	1.7	11	2.9	0.90	10	3.1
AUG										
14.	0925	0	--	--	--	--	--	--	--	--
14.	0930	--	30	8.1	1.3	13	3.4	1.2	11	2.8

DATE	TIME	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
DEC									
19.	1035	19	0.020	0.040	0.030	100	<1	<10	1
MAY									
22.	1355	2.2	0.100	0.040	0.030	380	<1	1	1
AUG									
14.	0930	3.4	0.100	0.040	0.020	280	1	3	<1

RED RIVER BASIN--CONTINUED

07340800 MILLWOOD LAKE AT YARBOROUGH LANDING NEAR ASHDOWN, ARKANSAS--CONTINUED
(LAT 33°43'29" LONG 094°01'05")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC									
19.	1031	--	--	--	--	--	--	2.00	<0.100
19.	1035	540	<1	130	<0.10	2	<10	--	--
MAY									
22.	1351	--	--	--	--	--	--	4.00	0.400
22.	1355	840	<1	130	<0.10	<1	10	--	--
AUG									
14.	0926	--	--	--	--	--	--	6.50	0.500
14.	0930	850	<1	120	<0.10	<1	10	--	--

07340960 DIERKS LAKE AT CAMP CREEK NEAR BURG, ARKANSAS
(LAT 34°11'59" LONG 094°05'22")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
DEC										
18.	1235	80513	80020	0.0	--	--	--	--	--	1.10
18.	1240	80513	80020	3.00	33	6.7	3.5	12.4	94	--
MAY										
23.	0930	80513	80020	0.0	--	--	--	--	--	1.20
23.	0931	80513	80020	3.00	--	--	--	--	--	--
23.	0935	80513	80020	10.0	39	6.8	20.0	5.9	66	--
AUG										
13.	1250	80513	81213	0.0	--	--	--	--	--	0.94
13.	1255	80513	81213	3.00	44	6.2	29.0	6.6	87	--

DATE	TIME	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC										
18.	1235	0	--	--	--	--	--	--	--	--
18.	1240	--	10	9.6	0.8	11	2.4	1.2	13	2.8
MAY										
23.	0930	2	--	--	--	--	--	--	--	--
23.	0935	--	15	2.0	1.9	11	2.4	1.2	11	2.6
AUG										
13.	1250	15	--	--	--	--	--	--	--	--
13.	1255	--	10	5.4	3.3	13	2.8	1.4	15	1.9

DATE	TIME	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
DEC									
18.	1240	1.9	0.150	0.030	0.020	100	<1	<10	<1
MAY									
23.	0935	1.9	0.100	0.030	<0.010	60	<1	<1	1
AUG									
13.	1255	2.6	<0.020	0.070	0.020	60	1	2	<1

RED RIVER BASIN--CONTINUED

07340960 DIERKS LAKE AT CAMP CREEK NEAR BURG, ARKANSAS--CONTINUED
(LAT 34°11'59" LONG 094°05'22")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC									
18.	1240	620	2	60	<0.10	2	10	4.30	0.100
MAY									
23.	0931	--	--	--	--	--	--	26.0	<0.400
23.	0935	260	<1	30	<0.10	<1	10	--	--
AUG									
13.	1255	460	<1	90	0.10	<1	10	6.20	1.20

07340980 DIERKS LAKE AT HOSE CREEK NEAR LEBANON. ARKANSAS
(LAT 34°10'08" LONG 094°05'45")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
DEC									
18...	1300	80513	80020	0.0	--	--	--	--	--
18...	1301	80513	80020	3.00	--	--	--	--	--
18...	1305	80513	81213	9.00	33	6.7	7.0	11.5	96
18...	1310	80513	81213	37.0	32	6.6	6.5	10	82
MAY									
23...	0900	80513	80020	0.0	--	--	--	--	--
23...	0901	80513	80020	3.00	--	--	--	--	--
23...	0905	80513	80020	12.0	38	6.8	19.5	5.8	63
23...	0910	80513	80020	48.0	39	6.4	16.0	3.5	36
AUG									
13...	1230	80513	81213	0.0	--	--	--	--	--
13...	1231	80513	80020	3.00	--	--	--	--	--
13...	1235	80513	81213	10.0	40	6.3	27.5	3.5	45
13...	1240	80513	81213	38.0	56	6.0	19.5	0.4	4

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
DEC									
18...	1300	1.20	2	--	--	--	--	--	--
18...	1305	--	--	10	3.3	0.4	11	2.5	1.2
18...	1310	--	--	10	3.2	0.6	11	2.6	1.2
MAY									
23...	0900	0.67	2	--	--	--	--	--	--
23...	0905	--	--	25	4.2	1.8	11	2.4	1.1
23...	0910	--	--	50	10	1.5	11	2.4	1.1
AUG									
13...	1230	0.98	0	--	--	--	--	--	--
13...	1235	--	--	5	1.5	2.2	13	2.7	1.4
13...	1240	--	--	800	4.0	3.0	18	4.1	1.8

RED RIVER BASIN--CONTINUED

07340980 DIERKS LAKE AT HOSE CREEK NEAR LEBANON, ARKANSAS--CONTINUED
(LAT 34°10'08" LONG 094°05'45")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
18...	1301	--	--	--	--	--	--	6.80	<0.100
18...	1305	11	--	1.7	0.220	0.040	0.010	--	--
18...	1310	12	--	1.7	0.210	0.030	0.010	--	--
MAY									
23...	0901	--	--	--	--	--	--	9.20	<0.200
23...	0905	10	2.6	1.8	0.200	0.020	<0.010	--	--
23...	0910	10	2.6	1.7	0.400	0.050	0.040	--	--
AUG									
13...	1231	--	--	--	--	--	--	4.60	0.200
13...	1235	14	1.9	2.0	0.080	0.040	0.010	--	--
13...	1240	30	1.1	2.1	<0.020	0.240	0.210	--	--

07340990 DIERKS LAKE NEAR DIERKS, ARKANSAS
(LAT 34°08'39" LONG 094°05'53")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
DEC										
18.	1150	80513	80020	0.0	--	--	--	--	--	1.30
18.	1151	80513	80020	3.00	--	--	--	--	--	--
18.	1155	80513	81213	11.0	33	6.6	8.0	10.2	87	--
18.	1200	80513	81213	45.0	32	6.6	8.0	10	85	--
MAY										
23.	0835	80513	80020	0.0	--	--	--	--	--	0.79
23.	0836	80513	80020	3.00	--	--	--	--	--	--
23.	0840	80513	80020	20.0	36	6.6	18.5	5.7	62	--
23.	0845	80513	80020	80.0	41	6.2	15.0	2.4	24	--
AUG										
13.	1200	80513	81213	0.0	--	--	--	--	--	1.20
13.	1201	80513	80020	3.00	--	--	--	--	--	--
13.	1205	80513	81213	11.0	40	6.5	27.0	4.8	61	--
13.	1210	80513	81213	46.0	64	6.1	18.5	0.4	4	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC										
18.	1150	0	--	--	--	--	--	--	--	--
18.	1155	--	10	3.7	0.5	11	2.6	1.2	11	2.7
18.	1200	--	10	3.2	0.4	11	2.6	1.2	13	2.7
MAY										
23.	0835	0	--	--	--	--	--	--	--	--
23.	0840	--	15	1.5	1.3	10	2.3	1.1	10	2.9
23.	0845	--	60	10	2.0	11	2.5	1.2	10	2.7
AUG										
13.	1200	0	--	--	--	--	--	--	--	--
13.	1205	--	10	1.1	1.6	12	2.7	1.3	14	2.1
13.	1210	--	80	2.5	1.6	14	3.2	1.5	21	1.7

RED RIVER BASIN--CONTINUED

07340990 DIERKS LAKE NEAR DIERKS, ARKANSAS--CONTINUED
(LAT 34°08'39" LONG 094°05'53")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
18.	1155	1.7	0.220	0.020	0.020	50	<1	<10	<1
18.	1200	1.7	0.220	0.020	0.010	50	<1	<10	1
MAY									
23.	0840	1.5	0.200	0.020	<0.010	50	<1	<1	1
23.	0845	1.5	0.400	0.050	0.040	350	1	<1	2
AUG									
13.	1205	1.9	<0.020	0.030	<0.010	40	<1	1	<1
13.	1210	1.9	0.020	0.090	0.080	40	2	2	<1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
DEC									
18.	1151	--	--	--	--	--	--	8.00	<0.100
18.	1155	450	<1	50	<0.10	1	10	--	--
18.	1200	470	<1	50	<0.10	1	10	--	--
MAY									
23.	0836	--	--	--	--	--	--	39.0	<0.500
23.	0840	180	1	20	<0.10	<1	10	--	--
23.	0845	1200	1	370	<0.10	2	10	--	--
AUG									
13.	1201	--	--	--	--	--	--	8.60	0.300
13.	1205	80	<1	80	<0.10	<1	10	--	--
13.	1210	3100	<1	540	<0.10	1	10	--	--

07340992 SALINE RIVER BELOW DIERKS DAM NEAR DIERKS, ARKANSAS
(LAT 34°08'37" LONG 094°05'53")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)
DEC											
18...	1125	80513	81213	34	6.3	7.5	12.9	109	1	10	4.7
MAY											
23...	0800	80513	80020	36	6.6	18.0	9.8	105	7	25	4.0
AUG											
13...	1130	80513	81213	41	6.4	27.5	7.3	94	5	5	0.96

DATE	TIME	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC											
18...	1125	0.6	11	2.6	1.2	13	2.9	2.9	0.230	0.040	0.020
MAY											
23...	0800	2.4	11	2.4	1.1	9	2.9	1.4	0.300	0.030	0.020
AUG											
13...	1130	1.7	12	2.8	1.3	12	2.2	2.0	0.020	0.030	0.010

RED RIVER BASIN--CONTINUED

07340992 SALINE RIVER BELOW DIERKS DAM NEAR DIERKS, ARKANSAS--CONTINUED
(LAT 34°08'37" LONG 094°05'53")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
DEC											
18...	1125	50	<1	<10	2	450	<1	60	<0.10	<1	<10
MAY											
23...	0800	150	<1	1	1	430	1	100	<0.10	1	<10
AUG											
13...	1130	20	<1	1	1	180	<1	170	<0.10	<1	10

07341250 MILLWOOD LAKE AT HIGHWAY 332 BRIDGE NEAR SCHAAL, ARKANSAS
(LAT 33°49'08" LONG 093°59'06")

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
DEC										
19.	1300	80513	80020	0.0	--	--	--	--	--	1.30
19.	1301	80513	80020	3.00	--	--	--	--	--	--
19.	1305	80513	81213	4.00	71	7.2	1.5	14.2	101	--
MAY										
22.	1615	80513	80020	0.0	--	--	--	--	--	1.40
22.	1616	80513	80020	3.00	--	--	--	--	--	--
22.	1620	80513	80020	12.0	64	6.5	19.5	4.5	--	--
AUG										
14.	1300	80513	81213	0.0	--	--	--	--	--	1.10
14.	1301	80513	80020	3.00	--	--	--	--	--	--
14.	1305	80513	81213	6.00	68	6.4	26.5	3.7	46	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC										
19.	1300	59	--	--	--	--	--	--	--	--
19.	1305	--	30	8.4	0.4	21	5.9	1.5	23	5.1
MAY										
22.	1615	17	--	--	--	--	--	--	--	--
22.	1620	--	35	15	2.5	22	6.6	1.3	17	4.9
AUG										
14.	1300	19	--	--	--	--	--	--	--	--
14.	1305	--	50	12	1.4	19	5.0	1.7	19	3.9

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
19.	1305	7.4	<0.020	0.060	0.030	70	<1	<10	<1
MAY									
22.	1620	3.0	0.200	0.070	0.050	1100	1	1	1
AUG									
14.	1305	4.5	0.100	0.050	0.030	300	1	3	<1

RED RIVER BASIN--CONTINUED

07341250 MILLWOOD LAKE AT HIGHWAY 332 BRIDGE NEAR SCHAAL, ARKANSAS--CONTINUED
(LAT 33°49'08" LONG 093°59'06")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC									
19.	1301	--	--	--	--	--	--	0.300	<0.100
19.	1305	1400	<1	60	<0.10	<1	10	--	--
MAY									
22.	1616	--	--	--	--	--	--	4.20	0.300
22.	1620	1500	1	260	<0.10	<1	10	--	--
AUG									
14.	1301	--	--	--	--	--	--	5.20	0.900
14.	1305	1400	<1	330	<0.10	<1	10	--	--

07341280 MILLWOOD LAKE ON MINE CREEK. NEAR OKAY, ARKANSAS
(LAT 33°47'16" LONG 093°56'11")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAM-PLING DEPTH (FEET) (00003)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
MAY										
22.	1500	80513	80020	0.0	--	--	--	--	--	1.60
22.	1501	80513	80020	3.00	--	--	--	--	--	--
22.	1505	80513	80020	10.0	92	6.4	22.0	3.3	38	--

DATE	TIME	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAY										
22.	1500	3	--	--	--	--	--	--	--	--
22.	1505	--	25	2.5	1.8	33	11	1.3	30	6.6

DATE	TIME	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
MAY									
22.	1505	3.6	<0.100	0.080	0.060	30	1	<1	3

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
MAY									
22.	1501	--	--	--	--	--	--	2.40	0.800
22.	1505	380	2	110	<0.10	4	10	--	--

RED RIVER BASIN--CONTINUED

07341295 MILLWOOD LAKE NEAR SARATOGA, ARKANSAS
(LAT 33°44'20" LONG 093°57'09")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
MAY										
22.	1115	80513	80020	0.0	--	--	--	--	--	1.20
22.	1116	80513	80020	3.00	--	--	--	--	--	--
22.	1120	80513	80020	7.00	53	6.9	21.5	8.5	97	--
22.	1125	80513	80020	30.0	42	6.3	19.5	4.4	48	--
AUG										
14.	1015	80513	81213	0.0	--	--	--	--	--	0.70
14.	1016	80513	80020	3.00	--	--	--	--	--	--
14.	1020	80513	81213	6.00	64	6.1	27.5	6.2	79	--
14.	1025	80513	81213	24.0	67	6.2	26.5	2.2	28	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
MAY										
22.	1115	0	--	--	--	--	--	--	--	--
22.	1120	--	48	8.0	1.8	18	5.2	1.1	16	3.8
22.	1125	--	48	9.2	1.4	13	3.5	1.0	11	3.1
AUG										
14.	1015	5	--	--	--	--	--	--	--	--
14.	1020	--	5	0.18	1.5	20	5.9	1.3	19	2.8
14.	1025	--	<5	0.29	1.6	20	5.8	1.3	19	2.8

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
MAY									
22.	1120	2.5	<0.100	0.030	<0.010	200	<1	<1	7
22.	1125	2.1	0.100	0.040	0.020	380	<1	<1	3
AUG									
14.	1020	5.0	<0.020	0.050	0.020	120	2	2	<1
14.	1025	5.2	<0.020	0.050	0.020	190	2	3	<1

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)
MAY									
22.	1116	--	--	--	--	--	--	2.90	<0.100
22.	1120	610	2	50	<0.10	1	20	--	--
22.	1125	800	1	180	<0.10	1	10	--	--
AUG									
14.	1016	--	--	--	--	--	--	6.90	0.600
14.	1020	380	<1	230	<0.10	<1	<10	--	--
14.	1025	590	<1	390	<0.10	<1	10	--	--

RED RIVER BASIN--CONTINUED

07341300 MILLWOOD LAKE NEAR ASHDOWN, ARKANSAS
(LAT 33°41'28" LONG 093°57'53")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	TRANSPARENCY (SECCHI DISK) (M) (00078)
DEC										
19.	1135	80513	80020	0.0	--	--	--	--	--	0.36
19.	1136	80513	80020	3.00	--	--	--	--	--	--
19.	1140	80513	81213	6.00	79	7.4	1.0	14.9	105	--
19.	1145	80513	81213	23.0	79	7.4	1.0	14.6	103	--
MAY										
22.	1300	80513	80020	0.0	--	--	--	--	--	0.98
22.	1301	80513	80020	3.00	--	--	--	--	--	--
22.	1305	80513	80020	9.00	50	6.6	22.0	8.3	95	--
22.	1310	80513	80020	36.0	45	6.4	20.5	5.8	65	--
AUG										
14.	1045	80513	81213	0.0	--	--	--	--	--	0.58
14.	1046	80513	80020	3.00	--	--	--	--	--	--
14.	1050	80513	81213	6.00	66	7.3	28.5	8.0	104	--
14.	1055	80513	81213	26.0	66	6.5	26.0	2.2	27	--

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC										
19.	1135	14	--	--	--	--	--	--	--	--
19.	1140	--	10	25	1.1	24	7.2	1.5	21	4.8
19.	1145	--	10	26	1.1	24	7.2	1.5	22	4.8
MAY										
22.	1300	0	--	--	--	--	--	--	--	--
22.	1305	--	50	8.5	1.6	16	4.7	1.1	15	3.7
22.	1310	--	48	9.0	1.4	14	3.9	1.0	12	3.3
AUG										
14.	1045	14	--	--	--	--	--	--	--	--
14.	1050	--	5	3.5	1.6	21	6.3	1.3	20	2.8
14.	1055	--	10	0.58	1.3	21	6.1	1.3	20	2.8

DATE	TIME	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
DEC									
19.	1140	11	<0.020	0.060	0.030	500	<1	<10	1
19.	1145	11	<0.020	0.060	0.030	400	<1	<10	1
MAY									
22.	1305	2.3	<0.100	0.030	<0.010	300	<1	<1	5
22.	1310	2.2	<0.100	0.060	0.020	350	<1	<1	1
AUG									
14.	1050	4.8	<0.020	0.040	0.010	120	2	1	<1
14.	1055	4.9	<0.020	0.060	0.030	190	2	2	<1

RED RIVER BASIN--CONTINUED

07341300 MILLWOOD LAKE NEAR ASHDOWN, ARKANSAS--CONTINUED
(LAT 33°41'28" LONG 093°57'53")

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)
DEC									
19.	1136	--	--	--	--	--	--	<0.100	<0.100
19.	1140	1100	2	80	<0.10	2	10	--	--
19.	1145	930	1	80	<0.10	<1	10	--	--
MAY									
22.	1301	--	--	--	--	--	--	1.80	<0.100
22.	1305	700	1	60	<0.10	2	20	--	--
22.	1310	800	1	130	<0.10	<1	10	--	--
AUG									
14.	1046	--	--	--	--	--	--	19.0	2.00
14.	1050	340	<1	240	<0.10	1	10	--	--
14.	1055	520	<1	520	<0.10	<1	<10	--	--

07341301 LITTLE RIVER AT MILLWOOD DAM NEAR ASHDOWN, ARKANSAS
(LAT 33°41'28" LONG 093°57'53")

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)
DEC											
19...	1105	80513	81213	83	7.4	1.0	15.7	111	7	10	27
MAY											
22...	1205	80513	80020	46	6.5	22.5	9.5	110	68	45	6.5
AUG											
14...	1120	80513	81213	67	6.8	28.5	7.8	101	57	10	4.5

DATE	TIME	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC											
19...	1105	1.3	26	7.5	1.7	22	5.4	12	<0.020	0.040	0.030
MAY											
22...	1205	2.1	14	4.1	1.0	12	3.5	2.3	<0.100	0.040	<0.010
AUG											
14...	1120	2.4	22	6.5	1.4	17	3.0	4.8	<0.020	0.050	0.010

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
DEC											
19...	1105	700	<1	<10	2	1200	2	100	<0.10	2	10
MAY											
22...	1205	260	1	<1	2	610	1	90	<0.10	<1	10
AUG											
14...	1120	250	1	2	2	390	<1	210	<0.10	1	10

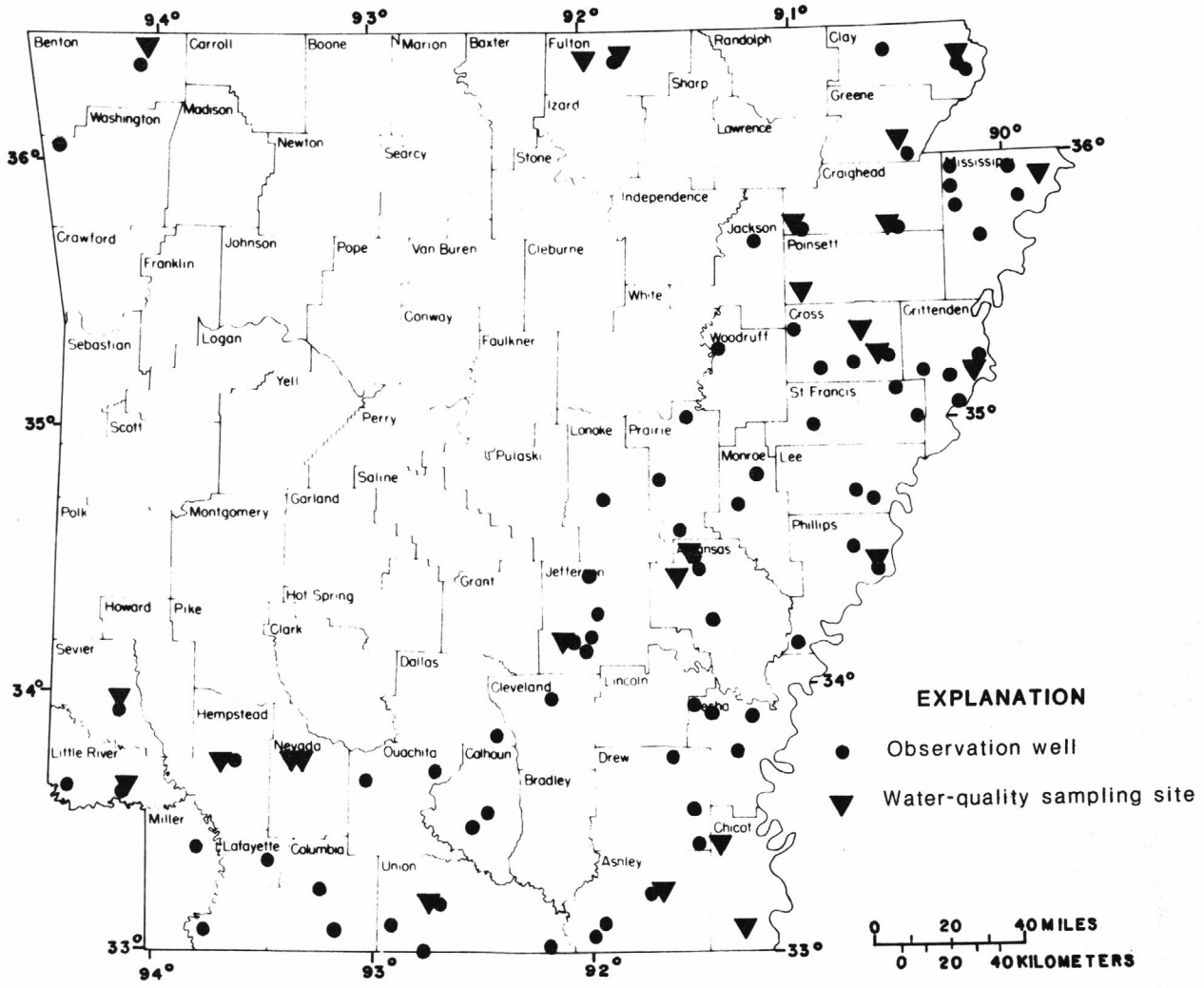


Figure 6.--Locations of observation wells in Arkansas.

ARKANSAS COUNTY

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, depth 801 ft, screened 698-798 ft.
DATUM.--Land surface, 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 1.50 ft 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 below land surface, Mar. 29, 1951; lowest, 157.98 ft below land surface, Sept. 12, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1990, 148.52 ft below land surface.

342847091345702. Local number, 03S05W06ABA2.
LOCATION.--Lat 34°28'47", long 91°34'57", Hydrologic Unit 08020402, near Stuttgart.
Owner: Russell Roth.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 20 in, depth 123 ft, screened 108-123 ft.
DATUM.--Land surface, 198 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for July 1975, August 1979, June 1983, and June 1988 are available in files of district office.

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, depth 760 ft.
DATUM.--Land surface, 216 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land surface.
REMARKS.--Water-level fluctuations caused largely by nearby irrigation pumpage.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 89.52 ft below land surface, Apr. 27, 1961; lowest, 277.19 ft below land surface, Aug. 28, 1980.
MEASUREMENT FOR CURRENT YEAR.--Mar. 9, 1989, 169.48 ft below land surface.

342925091314701. Local number 02S05W34ABC1.
LOCATION.--Lat 34°29'25", long 91°31'47", Hydrologic Unit 08020402, near Stuttgart.
Owner: Alfred Heien.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHRACTERISTICS.--Drilled irrigation artesian well, diameter 12 in, depth 758 ft, cased 0-668 ft, screened 668-758 ft.
DATUM.--Land surface, 216 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1969, July 1975, August 1979, June 1983, and August 1988 are available in files of district office.

ASHLEY COUNTY

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, depth 155 ft, screened 142-152 ft.
DATUM.--Land surface, 163.26 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.27 ft above land surface.
PERIOD OF RECORD.--June 1960 to August 1963, April 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 86.53 ft below land surface, Jan. 19, 1988, and Mar. 30, 1989; lowest, 93.28 ft below land surface, Aug. 22, 1963.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1989, 86.53 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	86.98	86.82	86.60	86.99	87.23	86.98	86.63	86.85	---	---	---	86.98
10	87.01	87.15	86.83	87.11	86.71	87.03	86.77	86.91	---	---	---	86.96
15	86.84	86.80	86.88	87.04	86.51	86.66	86.77	86.82	---	---	---	86.85
20	87.14	86.91	87.12	86.74	87.26	87.36	86.98	86.67	---	---	---	86.92
25	87.05	86.82	86.66	86.86	87.51	87.15	86.77	---	---	---	86.99	86.88
EOM	87.03	87.24	86.98	87.00	87.22	86.73	86.67	---	---	---	86.96	86.93
MAX	87.32	87.48	87.51	87.35	87.51	87.36	87.15	---	---	---	---	87.13
MIN	86.81	86.74	86.60	86.62	86.51	86.55	86.48	---	---	---	---	86.79

331015091522401. Local number, 18S08W01AAB1.
LOCATION.--Lat 33°10'15", long 91°52'24", Hydrologic Unit 08040205, near Crossett.
Owner: Earl Daugherty and Sons.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 16 in, depth 128 ft, cased 0-108 ft.
DATUM.--Land surface, 181 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in pipe, 0.75 ft above land surface.
PERIOD OF RECORD.--May 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.63 ft below land surface, May 15, 1984; lowest, 90.55 ft below land surface, Mar. 31, 1988.
MEASUREMENT FOR CURRENT YEAR.--May 30, 1990, 82.75 ft below land surface.

331730091423301. Local number, 16S06W27BAA1.
LOCATIONS.--Lat 33°17'30", long 91°42'33", Hydrologic Unit 08040205, near Mist.
Owner: Lloyd Engelkes.
AQUIFER.--Sand and gravel in terrace deposits of Pleistocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16-8 in, depth 138 ft.
DATUM.--Land surface, 184 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1972, August 1979, June 1983, and June 1988 are available in files of district office.

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, depth 115 ft.
DATUM.--Land surface, 182 ft National Geodetic Vertical Datum of 1929. Measuring point: Cutout in east side of casing, 1.20 ft above land surface.
PERIOD OF RECORD.--April 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.45 ft below land surface, Mar. 6, 1972; lowest, 81.82 ft below land surface, Mar. 24, 1984.
MEASUREMENT FOR CURRENT YEAR.--May 2, 1990, 76.83 ft below land surface.

BENTON COUNTY

361956094061401. Local number, 19N29W07DAB1.
LOCATION.--36°19'56", long 94°06'14", Hydrologic Unit 11010001, at Rogers.
Owner: City of Rogers.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled unused public-supply artesian well, diameter 8 in, depth 1,659 ft, cased 0-300 ft, open hole 300-1,659 ft.
DATUM.--Land surface, 1,220 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump, 2.50 ft above land surface.
REMARKS.--This well replaced well number 21N29W35DDB1 for water-level measurements.
PERIOD OF RECORD.--May 1966 to December 1975, May 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.72 ft below land surface, Dec. 2, 1975; lowest, 279.68 ft below land surface, June 9, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1990, 146.22 ft below land surface.

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, depth 1,769 ft, cased 0-416 ft, open hole 416-1,769 ft.
DATUM.--Land surface, 1,406 ft above mean sea level. Measuring point: Airhole in top of casing, 1.50 ft above land surface.
REMARKS.--Water-quality records for January 1965, June 1972, August 1977, and June 1982 are available in files of district office. Water-levels discontinued, May 1978.
PERIOD OF RECORD.--October 1965 to May 1978.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 294.00 ft below land surface, Oct. 12, 1965; lowest 320.22 ft below land surface, June 8, 1967.

CALHOUN COUNTY

333226092274101. Local number, 13S13W32CDA1.
LOCATION.--Lat 33°32'26", long 92°27'41", 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, depth 450 ft.
DATUM.--Land surface, 208 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in south side of pump, 2.50 ft above land surface.
PERIOD OF RECORD.--July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 134.49 ft below land surface, July 6, 1964; lowest, 175.85 ft below land surface, Mar. 30, 1989.
MEASUREMENT FOR CURRENT YEAR.--May 1, 1990, 168.90 ft below land surface.

332932092325001. Local number, 14S14W21ACB1.
LOCATION.--Lat 33°29'32", long 92°32'50", Hydrologic Unit 08040201, near Hampton.
Owner: H. D. Avent.
AQUIFER.--Sand, Cockfield Formation of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in, depth 160 ft, cased 0-120 ft, screened 150-160 ft.
DATUM.--Land surface, 132 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.40 ft above land surface.
PERIOD OF RECORD.--April 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.16 ft below land surface, June 5, 1979; lowest, 36.20 ft below land surface, Oct. 13-18, 1985.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1989, 34.85 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.55	33.17	33.05	33.06	33.78	34.18	34.61	34.97	35.23	34.49	33.74	33.30
10	33.51	33.17	33.05	33.07	33.83	34.38	34.63	34.92	35.10	34.28	33.69	33.24
15	33.45	33.16	33.02	33.07	33.96	34.38	34.65	34.91	35.06	34.19	33.62	33.17
20	33.38	33.11	33.01	33.24	33.98	34.38	34.67	34.92	34.96	34.10	33.54	33.09
25	33.28	33.11	32.89	33.29	34.16	34.38	34.67	34.94	34.81	33.97	33.49	33.05
EOM	33.23	33.07	32.97	33.43	34.16	34.61	34.67	34.97	34.61	33.85	33.39	32.99
MAX	33.61	33.21	33.07	33.43	34.17	34.61	34.67	34.97	35.24	34.58	33.82	33.36
MIN	33.23	33.07	32.89	32.97	33.45	34.16	34.61	34.79	34.61	33.85	33.39	32.99

WTR YR 1990 HIGH 32.89 DEC 24 LOW 35.24 JUN 4

CHICOT COUNTY

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, depth 330 ft.
DATUM.--Land surface, 135 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump base, 2.50 ft above land surface.
REMARKS.--Water-quality records for June 1970, June 1975, May 1979, June 1983, and June 1988 are available in files of district office.
PERIOD OF RECORD.--January 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.75 ft below land surface, Mar. 20, 1975; lowest, 47.65 ft below land surface, June 14, 1988.
MEASUREMENT FOR CURRENT YEAR.--May 3, 1990, 42.45 ft below land surface.

332613091255101. Local number, 14S03W32DCB1.
LOCATION.--Lat 33°26'13", long 91°25'51", Hydrologic Unit 08050001, near Jerome.
Owner: James Roy Baugh.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16-10 in, depth 90 ft, cased 0-50 ft, screened 50-90 ft.
DATUM.--Land surface, 134 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-Quality record for July 1952, June 1982, and June 1986 are available in files of district office.
PERIOD OF RECORD.--July 1952, March 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.08 ft below land surface, Mar. 29, 1984; lowest, 29.27 ft below land surface, May 2, 1990.
MEASUREMENT FOR CURRENT YEAR.--May 2, 1990, 29.27 ft below land surface.

CLAY COUNTY

361938090311601. Local number, 20N05E34DBA1.
LOCATION.--Lat 36°19'38", long 90°31'16", Hydrologic Unit 08020302, near Knobel.
Owner: Buck Sellmeyer.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18-16 in, depth 110 ft.
DATUM .--Land surface, 285 ft National Geodetic Vertical Datum of 1929.
PERIOD OF RECORD.--April 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level meaured, 3.55 ft below land surface, May 1, 1973; lowest, 17.10 ft below land surface May 31, 1988.
MEAUREMENT FOR CURRENT YEAR.--Apr. 3, 1990, 16.63 ft below land surface.

362024090132101. Local number, 20N08E28BDC1.
LOCATION.--Lat 36°20'24", long 90°13'21", Hydrologic Unit 08020203, at Greenway City.
Owner: Greenway City.
AQUIFER.--Nacatoch Sand of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12-8 in, depth 992 ft.
DATUM.--Land surface, 286 ft National Geodetic Vertical Datum of 1929.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.14 ft above land surface, Apr. 13, 1967; lowest, 26.94 ft below land surface, Apr. 28, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 3, 1990, 23.89 ft below land surface.

362055090092901. Local number, 20N08E24DDA1.
LOCATION.--Lat 36°20'55", long 90°09'29", Hydrologic Unit 08020203, near Piggott.
Owner: Troy Gaddy.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16-12 in, depth 110 ft.
DATUM.--Land surface, 276 ft National Geodetic Vertical Datum of 1929. Measuring point: End of discharge pipe, 2.00 ft above land surface.
PERIOD OF RECORD.--September 1966 to April 1967, March 1970, April 1970, March 1974 to March 1976, March 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.50 ft below land surface, Mar. 27, 1984; lowest, 13.21 ft below land surface, Nov. 2, 1966.
MEASUREMENT FOR CURRENT YEAR.--Apr. 3, 1990, 6.03 ft below land surface.

362311090111301. Local number, 20N08E11BAC3.
LOCATION.--Lat 36°23'11", long 90°11'13", Hydrologic Unit 08020203, near municipal light plant, Piggott (well No. 3).
Owner: City of Piggott.
AQUIFER.--Nacatoch Sand of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12-8 in, depth 976 ft. Cased 0-900 ft, screened 900-976 ft.
DATUM.--Land surface, 275 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1956, June 1970, and April 1975, and June 1982 are available in files of district office.
PERIOD OF RECORD.--April 1987 to current year.
MEASUREMENT FOR CURRENT YEAR.--No measurement.

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, depth 550 ft, cased 0-500 ft, screened 500-550 ft.
DATUM.--Land surface, 266 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 2.00 ft above land surface.
PERIOD OF RECORD.--November 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 151.20 ft below land surface, May 13, 1966; lowest, 210.68 ft below land surface, May 18, 1990.
MEASUREMENT FOR CURRENT YEAR.--May 18, 1990, 210.68 ft below land surface.

COLUMBIA COUNTY

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, depth 428 ft, cased 0-365 ft, screened 365-425 ft.
DATUM.--Land surface, 303 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.30 ft 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 below land surface, Apr. 29, 953; lowest, 354.39 ft below land surface, Sept. 1, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1990, 336.81 ft below land surface.

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, depth 120 ft, screened 100-120 ft.
DATUM.--Land surface, 250 ft National Geodetic Vertical Datum of 1929. 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 below land surface, June 19, 1957; lowest, 87.77 ft below land surface, Aug. 29, 1988.
MEASUREMENT FOR CURRENT YEAR.--Apr. 13, 1989, 85.60 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	87.05	86.82	86.58	---	---	86.27	86.09	86.21	85.97	87.48	89.17	89.80
10	87.06	86.93	86.60	---	---	86.27	86.19	86.21	86.72	87.68	89.49	89.80
15	86.99	86.81	---	---	---	86.05	86.07	85.98	86.84	88.04	89.59	---
20	86.99	86.73	---	---	---	86.61	86.20	85.97	87.09	88.22	89.69	---
25	87.01	86.68	---	---	---	86.49	86.11	85.99	87.02	88.47	89.74	---
EOM	86.98	86.79	---	---	86.58	86.05	86.25	86.10	87.13	88.77	89.75	---
MAX	87.25	87.01	---	---	---	86.65	86.45	86.30	87.22	88.77	89.75	---
MIN	86.88	86.68	---	---	---	85.84	85.82	85.89	85.97	87.19	88.82	---

354236090504401. Local number 13N02E35DAC1.
LOCATION.--Lat 35°42'36", long 90°50'44", Hydrologic Unit 08020302, near Otwell.
Owner: A. B. Clark.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12 in, depth 127 ft, cased 0-87 ft, screened 87-127 ft.
DATUM.--Land surface, 250 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1969, Sept. 1974, and June 1981 are available in files of district office.

354437090335701. Local number, 13N05E21BDD1.
LOCATION.--Lat 35°44'37", long 90°33'57", Hydrologic Unit 08020203, at Bay.
Owner: City of Bay.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled public-supply water-table well, diameter 20-16 in, depth 147 ft, cased (-1.5)-96.7 ft, screened 96.7-126.7 ft.
DATUM.--Land surface, 226 ft National Geodetic Vertical Datum of 1929. Measuring point: South side face of pump base at breather pipe, 1.5 ft above land surface.
PERIOD OF RECORD.--March 1968, April 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.10 ft below land surface, Apr. 9, 1973; lowest, 12.43 ft below land surface, May 20, 1981.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1990, 8.75 ft below land surface.

354635090365601. Local number, 13N04E12ABB1.
LOCATION.--Lat 35°46'35", long 90°36'56", Hydrologic Unit 08020203, near Bay.
Owner: Wilburn Morrison.
AQUIFER.--Sand and gravel or Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 10 in, depth 110 ft, cased 0-70 ft, screened 70-110 ft.
DATRUM.--Land surface, 231 ft National Geodetic Vertical Datum of 1929. Measuring point: Cut-out in North side of casing, 1.50 ft above land sand surface.
REMARKS.--Water-quality records for August 1984. This well replaced 13N05E21BDD1 for a master well.
PERIOD OF RECORD.--August 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.73 ft below land surface, Apr. 1, 1985; lowest, 19.30 ft below land surface, Aug. 7, 1984.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1990, 18.25 ft below land surface.

350344090130000. Local number, 05N08E11CCA2.
LOCATION.--Lat 35°03'44", long 90°13'00", Hydrologic Unit 08020203, near Louise. (site No. AR: H-2).
Owner: U.S.G.S. and M.L.G.W.
AQUIFER.--Sand, Memphis Aquifer of the Claiborne group of Eocene age.
WELL CHARACTERISTICS.--Drilled observation aretsian well, diameter 6 in, depth 500 ft, cased 0-480 ft, screened 480-500 ft.
DATUM.--Land surface, 211 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.30 ft above land surface.
REMARKS.--Water-quality records for March 1983 are available in files of Tennessee district office.
PERIOD OF RECORD.--March 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.28 ft below land surface, May 30, 31, 1983; lowest, 31.71 ft below land surface, Sept. 21, 1988.
MEASUREMENT FOR CURRENT YEAR.--Apr. 11, 1990, 23.09 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.20	26.77	26.33	26.86	24.98	22.79	22.69	22.50	20.01	21.66	23.91	---
10	25.99	26.61	26.60	25.70	23.91	23.58	22.94	22.06	20.13	22.16	24.22	---
15	26.39	26.42	26.67	26.11	23.51	23.40	22.81	21.93	20.47	22.49	24.46	---
20	26.70	26.28	26.90	26.43	23.26	22.87	22.45	21.36	---	22.64	24.97	---
25	26.15	25.61	---	25.94	22.84	22.17	22.53	20.38	---	22.91	25.18	---
EOM	26.18	26.29	27.01	25.53	22.62	22.43	22.24	20.22	21.28	23.34	---	26.97
MAX	26.70	26.78	---	27.20	25.53	23.62	23.08	22.50	---	23.34	---	---
MIN	25.79	25.61	---	25.44	22.62	22.14	22.19	20.17	---	21.29	---	---

350958090173800. Local number, 06N07E01DAD2.
LOCATION.--Lat 35°09'58", long 90°17'38", Hydrologic Unit 08020203, near Lehi, (site No. AR: C-1).
Owner: U.S.G.S. and M.L.G.W. (well on W. J. Carlson Farm).
AQUIFER.--Sand, Memphis Aquifer of the Claiborne group of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in depth 622 ft, cased 0-602 ft, screened 602-622 ft.
DATUM.--Land surface, 209 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.30 ft above land surface.
REMARKS.--Water-quality records for April 1983, are available in files of Memphis district office.
PERIOD OF RECORD.--May 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.29 ft below land surface, June 11, 12, 13, 1983; lowest, 25.31 ft below land surface, Oct. 5, 6, 1988.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1990, 19.77 ft below land surface.

350906090104201. Local number, 06N09E07CAC1.
LOCATION.--Lat 35°09'06", long 90°10'42", Hydrologic Unit 08020203, at West Memphis (city well No. 5).
Owner: City of West Memphis.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter, 16 in, depth 1,470 ft, cased 0-1,380 ft, screened 1,380-1,470 ft.
DATUM.--Land surface, 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Vent pipe east side of pump, 2.80 ft above land surface.
REMARKS.--Water-quality records for December 1976, June 1981, and August 1989 are in files of district office.
PERIOD OF RECORD.--March 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.42 ft below land surface, Mar. 21, 1984; lowest, 69.09 ft below land surface, Apr. 18, 1990.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 18, 1990, 69.09 ft below land surface.

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, depth 98 ft.
DATUM.--Land surface, 207 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in steel plate, 1.00 ft above land surface.
PERIOD OF RECORD.--March 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.31 ft below land surface, May 17, 1958; lowest, 23.63 ft below land surface, Apr. 5, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1990, 22.87 ft below land surface.

351349090062800. Local number, 07N09E14BAC1.
LOCATION.--Lat 35°13'49", long 90°06'28", Hydrologic Unit 08020203, about 4 mi east of Marion, (site No. AR: 0-1).
Owner: U.S.G.S. and M.L.G.W. (well on J. F. Fageman Heirs property.)
AQUIFER.--Sand, Memphis Aquifer of the Claiborne Group of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in, depth 497 ft, cased 0-477 ft, screened 477-497 ft.
DATUM.--Land surface, 217 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.60 ft above land surface.
REMARKS.--Water-quality records for April 1983 are available in files of Tennessee district office.
PERIOD OF RECORD.--May 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.42 ft below land surface, May 29, 30, 31, 1983; lowest, 41.68 ft below land surface, Sept. 6, 1988.
MEASUREMENT FOR CURRENT YEAR.--July 26, 1989, 33.95 ft below land surface, Aug. 30, 1989, 36.44 ft below land surface, and Sept. 26, 1989, 36.32 ft below land surface.

CROSS COUNTY

351541090473801. Local number, 07N03E05ADA1.
LOCATION.--Lat 35°15'41", long 90°47'38", Hydrologic Unit 08020205, near Vanndale.
Owner: J. E. Brown.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Irrigation well, diameter 22-20 in, depth 160 ft.
DATUM.--Land surface, 254 ft National GeodeticVertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land surface.
PERIOD OF RECORD.--April 1955, January 1957 to February 1962, April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level meaured, 69.57 ft below land surfce, June 19, 1957; lowest, 97.41 ft below land surface, Mar. 27, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1990, 97.34 ft below land surface.

351544090334101. Local number, 07N05E04ADD1.
LOCATION.--Lat 35°15'37", long 90°33'29", Hydrologic Unit 08020203.
Owner: Parkin Water Company.
AQUIFER.--Sand, Memphis Aquifer of the Claiborne Group of Eocene Age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 462 ft., cased 0-394 ft., screened 402-462 ft.
DATUM.--Land surface, 209 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump base, 2.70 ft. above land surface.
REMARKS.--Water-quality records for December 1976, and June 1981 are available in files of district office.
PERIOD OF RECORD.--March 1986 to April 1987. April 1989.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.56 ft. below land surface, Apr. 2, 1987 lowest, 26.74 ft. below land surface, Apr. 18, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1990, 26.74 ft below land surface.

352231090421501. Local number, 09N04E30DCA1.
LOCATION.--Lat 35°22'31", long 90°42'15", Hydrologic Unit 08020205.
Owner: Vanndale-Birdeye Water Association.
AQUIFER.--Sand, Memphis aquifer of the Claiborne group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in, depth 1,148 ft, cased 0-1,038 ft, screened 1,038-1,148 ft.
DATUM.--Land surface, 429 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1-in pipe in pump base, 2.50 ft above land surface.
REMARKS.--Water-quality records for December 1976, June 1981, and August 1989 are available in files of district office.
PERIOD OF RECORD.--July 26, 1973 to March 1986.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 240.47 ft below land surface, Mar. 22, 1976; lowest, 262.11 ft below land surface, Apr. 26, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 26, 1990, 262.11 ft below land surface.

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.--Sand, Memphis aquifer of the Claiborne group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-10 in, depth 800 ft, cased 730 ft, screened 730-800 ft.
DATUM.--Land surface, 253 ft National Geodetic Vertical Datum of 1929. Measuring point: Bottom of large opening in north side of pump, 3.00 ft 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 below land surface, Apr. 4, 1968; lowest, 88.38 ft below land surface, Apr. 18, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1989, 88.38 ft 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.
DATUM.--Land surface, 225 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of pit casing, north side, 0.90 ft 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 below land surface, June 19, 1957; lowest, 62.42 ft below land surface, Mar. 22, 1988.
MEASUREMENT FOR CURRENT YEAR.--Apr. 16, 1990, 62.99 ft below land surface.

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, depth 888 ft.
DATUM.--Land surface, 272 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe in concrete base, 0.50 ft 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 below land surface, May 8, 1950; lowest, 143.80 ft below land surface, May 4, 1990.
MEASUREMENT FOR CURRENT YEAR.--May 4, 1990, 143.80 ft below land surface.

DESHA COUNTY

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, depth 754 ft, cased 0-679 ft, screened 679-754 ft.
DATUM.--Land surface, 139 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft 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 below land surface, July 27, 1952; lowest, 61.34 ft below land surface, Mar. 29, 1988.
MEASUREMENT FOR CURRENT YEAR.--May 8, 1990, 53.38 ft below land surface.

335258091152301. Local number, 09S02W26DDC1.
LOCATION.--Lat 33°52'58", long 91°15'23", Hydrologic Unit 08050002, near Watson.
Owner: Ed Smith.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 5-2 in, depth 97 ft, cased 0-94 ft, screened 94-97 ft.
DATUM.--Land surface, 149.27 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.71 ft above land surface.
REMARKS.--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 below land surface, Feb. 17, 1959; lowest, 25.73 ft below land surface, Aug. 26, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.87	19.92	18.97	18.28	14.47	13.76	11.82	11.34	11.08	16.64	22.69	25.24
10	20.68	19.68	18.83	17.92	14.02	13.11	11.66	11.39	10.94	18.20	23.52	25.20
15	20.50	19.43	18.74	17.69	13.73	12.50	11.54	11.42	11.07	19.16	23.83	25.14
20	20.35	19.32	18.68	16.85	13.84	12.25	11.44	11.37	11.60	19.70	24.80	25.07
25	20.20	19.19	18.62	15.73	13.84	12.26	11.39	11.28	12.96	20.34	25.09	24.96
EOM	20.04	19.07	18.48	15.69	13.87	12.09	11.31	11.20	14.75	21.46	25.29	24.86
MAX	21.04	20.02	19.06	18.46	15.65	13.87	11.98	11.43	14.75	21.46	25.31	25.27
MIN	20.04	19.07	18.48	15.69	13.71	12.09	11.31	11.20	10.94	15.29	21.82	24.86

WTR YR 1990 HIGH 10.94 JUN 9 LOW 25.31 AUG 28

335450091244501. Local number, 09S03W17DCB1.
LOCATION.--Lat 33°54'50", long 91°24'45", Hydrologic Unit 08050002, near Dumas.
Owner: Floyd Christman.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Unused well, diameter 5 in, depth 126 ft, cased 0-123 ft.
DATUM.--Land surface, 155.08 ft National Geodetic Vertical Datum of 1929.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.40 ft below land surface, Mar. 21, 1975; lowest, 23.68 ft below land surface, Mar. 27, 1989.
MEASUREMENT FOR CURRENT YEAR.--May 10, 1990, 22.29 ft below land surface.

335810091325301. Local number, 09S04W06BBC1.
LOCATION.--Lat 33°58'10", long 91°32'53", Hydrologic Unit 08050001, near Gould.
Owner: Holthoff Brothers.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diamter 18-10 in, depth 102 ft, screened 70-102 ft.
DATUM.--Land surface, 161.75 ft. National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft 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 below land surface, May 8, 1958; lowest 26.88 ft below land surface, Mar. 26, 1984.
MEASUREMENT FOR CURRENT YEAR.--May 10, 1990, 18.49 ft below land surface.

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, depth 760 ft, cased 0-680 ft, screened 680-760 ft.
DATUM.--Land surface, 125 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, south side, 2.00 ft 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, 28.91 ft below land surface, Mar. 28, 1962; lowest, 55.86 ft below land surface, Mar. 29, 1990.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1990, 55.86 ft below land surface.

333205091304001. Local number, 13S04W33ABA1.
LOCATION.--Lat 33°32'05", long 91°30'40", Hydrologic Unit 08040205, near Collins.
Owner: Meherns.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 24-18 in, depth 100 ft.
DATUM.--Land surface, 140 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in pump base, 1.00 ft above land surface.
PERIOD OF RECORD.--March 1955 to April 1955, April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.38 ft below land surface, Mar. 29, 1990; lowest, 17.31 ft below land surface, Apr. 16, 1984.
MEAUREMENT FOR CURRENT YEAR.--Mar. 29, 1990, 2.38 ft 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, depth 864 ft, cased 0-824 ft, screened 824-864 ft.
DATUM.--Land surface, 203 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in south side of pump base, 1.50 ft 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 below land surface, March 27, 1964; lowest, 135.58 ft below land surface, Mar. 28, 1990.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1990, 135.58 ft below land surface.

FULTON COUNTY

362219091492101. Local number, 20N08W27AAB1.
LOCATION.--Lat 36°22'19", long 91°49'21", Hydrologic Unit 11010010, at Salem.
Owner: City of Salem.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, depth 1,280 ft.
DATUM.--Land surface, 660 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for January 1969, April 1975, and June 1982 are available in files of district office.

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, depth 1,282 ft.
DATUM.--Land surface, 660 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in plate on top of casing, 2.00 ft above land surface.
PERIOD OF RECORD.--February 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.74 ft below land surface, Apr. 2, 1985; lowest, 115.77 ft below land surface, Mar. 27, 1990.
MEASUREMENT FOR CURRENT YEAR.--Mar. 27, 1990, 115.77 ft below land surface.

362359091590001. Local number, 20N09W18ACB1.
LOCATION.--Lat 36°23'59", long 91°59'00", Hydrologic Unit 1101006, at Viola.
Owner: City of Viola.
AQUIFER.--Roubidoux Formation of Ordovician age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in, depth 950 ft.
DATUM.--Land surface, 860 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing under cover plate, 2.50 ft above land surface.
REMARKS.--Water-quality records for June 1982 are in files of district office.
PERIOD OF RECORD.--July 1978, April 1981 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.60 ft below land surface, July 24, 1978; lowest, 111.08 ft below land surface, Mar. 21, 1984.

360322090290401. Local number, 17N06E31DCB1.
LOCATION.--Lat 36°03'22", long 90°29'04", Hydrologic Unit 08020203, at Paragould (city well No. 1).
Owner: City of Paragould.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 20 in, depth 507 ft, screened 467-507 ft.
DATUM.--Land surface, 285 ft National Geodetic Vertical Datum of 1929. Measuring point: Pipe in east side of pump base, 1.00 ft above land surface.
REMARKS.--Water-quality records for December 1976, June 1981, and July 1984 are available in files of district office.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.25 ft below land surface, Apr. 13, 1967; lowest, 117.34 ft below land surface, Apr. 5, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1990, 117.34 ft below land surface.

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, depth 194 ft.
DATUM.--Land surface, 258 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in pump base, north side, 1.00 ft above land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.21 ft below land surface, Mar. 10, 1958; lowest, 47.90 ft below land surface, Mar. 30, 1988.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1990, 38.18 ft below land surface.

HEMPSTEAD COUNTY

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, depth 1,156 ft.
DATUM.--Land surface, 355 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump base, 1.50 ft above land surface.
REMARKS.--Water-quality records for June 1972, January 1977, June 1982, and June 1986 are available in files of district office.
PERIOD OF RECORD.--April 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.02 ft below land surface, Apr. 14, 1972; lowest, 196.10 ft below land surface, Mar. 29, 1985.
MEASUREMENT FOR CURRENT YEAR.--Apr. 24, 1990, 157.43 ft below land surface.

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.--Sand, Tokio Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 1,200 ft.
DATUM.--Land surface, 355 ft National Geodetic Vertical Datum of 1929. Measuring point: 2-in pipe in south side of concrete base, 0.80 ft above land surface.
PERIOD OF RECORD.--April 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.44 ft below land surface, Apr. 5, 1971; lowest, 200.45 ft below land surface, Mar. 28, 1979.
MEASUREMENT FOR CURRENT YEAR.--Apr. 24, 1990, 165.11 ft below land surface.

JACKSON COUNTY

353909091085102. Local number, 12N02W25ABB2.
LOCATION.--Lat 35°39'09", long 91°08'51", Hydrologic Unit 08020302, near Tuckerman.
Owner: R. D. Wilmans.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well.
DATUM.--Land surface, 234 ft National Geodetic Vertical Datum of 1929. Measuring point: End of discharge pipe, 9.5 ft above land surface.
PERIOD OF RECORD.--April 1953 to April 1963, April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.42 ft below land surface, Apr. 18, 1962; lowest, 23.67 ft below land surface Mar. 21, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 26, 1990, 23.08 ft 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, depth 160 ft, cased 0-120 ft, screened 120-160 ft.
DATUM.--Land surface, 202.31 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/2-in pipe on south side of pump base, 1.00 ft above land surface.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.88 ft below land surface, Apr. 5, 1962; lowest, 21.09 ft below land surface, July 9, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 3, 1990, 9.87 ft below land surface.

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, depth 1,106 ft, cased 0-1,017 ft, 1,033-1,053 ft, 1,068-1,090 ft, screened 1,017-1,033 ft, 1,053-1,068 ft, 1,090-1,106 ft.
DATUM.--Land surface, 202.42 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft above land surface.
PERIOD OF RECORD.--August 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.98 ft below land surface, Sept. 4, 1958; lowest, 246.65 ft below land surface, Apr. 25, 1984.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 23	236.40	Jan. 23	235.40	Apr. 20	237.80	June 22	228.20	Aug. 22	238.25
Nov. 19	239.00	Feb. 20	236.20	May 20	238.75	July 21	238.90	Sep. 19	241.25
Dec. 20	238.05	Mar. 20	238.90						

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, depth 906 ft.
DATUM.--Land surface, 234.34 ft National Geodetic Vertical Datum of 1929. 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, 80.55 ft below land surface, May 2, 1957; lowest, 264.03 ft below land surface, Apr. 4, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 4, 1989, 264.03 ft below land surface.

341147092022301. Local number, 06S09W17CCB1.
LOCATION.--Lat 34°11'47", long 92°02'23", Hydrologic Unit 08040205, near Midland Drive North and Midland Drive South, Pine Bluff.
Owner: General Water Works Corporation (well No. 16).
AQUIFER.--Sparta Sand of Eocene Age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-8 in, depth 963 ft, cased 0-783 ft, screened 783-863 ft.
DATUM.--Land surface, 231 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water quality records for December 1968, June 1975, August 1979, June 1983, and June 1988 are available in files of district office.

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, depth 809 ft.
DATUM.--Land surface, 204.67 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land surface.
PERIOD OF RECORD.--September 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.73 ft below land surface, May 23, 1957; lowest, 271.59 ft below land surface, Mar. 24, 1981.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 5, 1990, 263.98 ft below land surface.

342837092003901. Local number, 03S09W06DDA1.
LOCATION.--Lat 34°28'37", long 92°00'39", Hydrologic Unit 11110207, near Pastoria.
Owner:
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well.
DATUM.--Land surface, 225 ft National Geodetic Vertical Datum of 1929. Measuring point: 0.5 in hole east side of pump base, 1.00 ft above land surface.
PERIOD OF RECORD.--April 1958 to March 1964, March 1972 to March 1989.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.74 ft below land surface, Apr. 19, 1958; lowest, 34.14 ft below land surface Mar. 22, 1989.
MEASUREMENT FOR CURRENT YEAR.--Mar. 26, 1990, 33.13 ft 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: Earl Stanley.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16-12 in, depth 63 ft, cased 0-43 ft, screened 43-63 ft.
DATUM.--Land surface, 216 ft National Geodetic Vertical Datum of 1929. Measuring point: Top end of discharge pipe, 2.00 ft above land surface.
PERIOD OF RECORD.--March 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.53 ft below land surface, Apr. 1, 1959; lowest, 17.67 ft below land surface, Nov. 29, 1978.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 24, 1990, 5.88 ft 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, depth 1,885 ft, cased 0-1,865 ft, screened 1,865-1,885 ft.
DATUM.--Land surface, 204 ft National Geodetic Vertical Datum of 1929. Measuring point: ¼-in plug in pipe cap, 3.50 ft 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, 8.92 ft below land surface, Nov. 23, 1964; lowest, 34.76 ft below land surface, Apr. 18, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1989, 34.76 ft 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, depth 168 ft.
DATUM.--Land surface, 236.43 ft National Geodetic Vertical Datum of 1929. Measuring point: Small pipe in west side of pump base, 2.00 ft above land surface.
PERIOD OF RECORD.--March 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.16 ft below land surface, Apr. 17, 1961; lowest, 49.67 ft below land surface, Nov. 15, 1966.
MEASUREMENT FOR CURRENT YEAR.--Apr. 17, 1990, 37.38 ft below land surface.

LITTLE RIVER COUNTY

333928094065401. Local number, 13S29W04CBC1.
LOCATION.--Lat 33°39'28", long 94°06'54", Hydrologic Unit 11140109, at Ashdown (city well No. 6).
Owner: City of Ashdown.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12-6 in, depth 95 ft, cased 0-65 ft screened, 65-95 ft.
DATUM.--Land surface, 327 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1981 and June 1986 are available in files of district office.

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, depth 98 ft, cased 0-58 ft, screened 58-98 ft.
DATUM.--Land surface, 330 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing at land surface.
REMARKS.--Water-quality records for 1972 available in files of district office.
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 below land surface, Dec. 2, 1958; lowest, 48.16 ft below land surface, Mar. 24, 1976.
MEASUREMENT FOR CURRENT YEAR.--Apr. 26, 1990, 25.86 ft below land surface.

333851094254201. Local number 13S32W09CCC1.
LOCATION.--Lat 33°38'51", long 94°25'42", Hydrologic Unit 11140106, near Foreman.
Owner: W. L. Matteson.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 4 in, depth 52 ft, cased 0-42 ft, screened 45-52 ft.
DATUM.--Land surface, 313 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.60 ft above land surface.
PERIOD OF RECORD.--April 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.84 ft below land surface, Mar. 28, 1984; lowest, 5.47 ft below land surface, Mar. 24, 1981.
MEASUREMENT FOR CURRENT YEAR.--Apr. 26, 1990, 1.27 ft below land surface.

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, depth 135 ft.
DATUM.--Land surface, 245 ft National Geodetic Vertical Datum of 1929. 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 below land surface, Mar. 24, 1969; lowest, 116.87 ft below land surface, Aug. 5, 1987.
MEASUREMENT FOR CURRENT YEAR.--Mar. 9, 1989, 114.16 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	114.98	116.34	116.19	116.31	118.70	119.93	123.43
10	---	---	---	---	---	---	115.93	115.78	116.54	119.68	119.29	123.31
15	---	---	---	---	---	---	115.55	115.98	117.42	119.26	120.26	121.27
20	---	---	---	---	---	118.22	117.14	115.46	118.81	119.55	121.49	120.67
25	---	---	---	---	115.73	118.79	117.58	116.88	120.26	119.55	122.24	120.21
EOM	---	---	---	---	115.38	116.59	116.67	116.43	118.08	119.42	123.07	120.03
MAX	---	---	---	---	---	---	117.58	---	120.26	---	123.07	123.51
MIN	---	---	---	---	---	---	115.55	---	116.20	---	119.29	120.03

MILLER COUNTY

332441093461401. 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, depth 41 ft.
DATUM.--Land surface, 230 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft 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 below land surface, August 21, 1970; lowest, 13.98 ft below land surface, April 14, 1972.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 23, 1990, 1.73 ft below land surface.

MISSISSIPPI COUNTY

354033090055201. Local number, 12N09E11DBB1.
LOCATION.--Lat 35°40'33", long 90°05'52", Hydrologic Unit 08020203, at Keiser.
Owner: City of Keiser.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10-6 in, depth 1420 ft.
DTUM.--Land surface, 230 ft National Geodetic Vertical Datum of 1929. Measuring point: Breather pipe east side 3.00 ft ablove land surface.
PERIOD OF RECORD.--June 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.58 ft below land surface, June 14, 1966; lowest, 26.52 ft below land surface, Apr. 27, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 17, 1990, 25.87 ft below land surface.

355005090034601. Local number, 14N10E18ABC1.
LOCATION.--Lat 35°50'05", 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, depth 101 ft, cased 0-51 ft, screened 51-101 ft.
DATUM.--Land surface, 236 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.40 ft 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 March 1988.
EXTREMES FOR PERIOD OF RECORD--Highest water level measured, 4.90 ft below land surface, Dec. 11, 1957; lowest, 15.86 ft below land surface, Nov. 18, 1964.

355102090105101. Local number, 14N08E12DAB1.
LOCATION.--Lat 35°51'02", long 90°10'51", Hydrologic Unit 08020204, near Manila.
Owner: Gerald Costner.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--
DATUM.--Land surface, 235 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in center of drum over well, 1.00 ft above land surface.
PERIOD OF RECORD.--March 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.07 ft below land surface, Mar. 25, 1975; lowest, 7.79 ft below land surface, Apr. 12, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 9, 1990, 4.87 ft below land surface.

355252090095701. Local number, 15N09E31ACD1.
LOCATION.--Lat 35°52'52", long 90°09'57", Hydrologic Unit 08020204, at Manila.
Owner: City of Manila.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in, depth 1,158 ft.
DATUM.--Land surface, 240 ft National Geodetic Vertical Datum of 1929. Measuring point: Airline hole east side, 1.7 ft above land surface.
PERIOD OF RECORD.--March 1968 to April 1972, March 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.69 ft below land surface, Mar. 7, 1968; lowest, 28.53 ft below land surface, Apr. 10, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 10, 1990, 28.53 ft below land surface.

355323089552101. Local number 15N11E28CAC1.
LOCATION.--Lat 35°53'23", long 89°55'21", Hydrologic Unit 08010100, at Dogwood.
Owner: Dogwood Community Water Association, Inc.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in, depth 1,400 ft, cased 0-1,337 ft, sreened 1,337 -1,400 ft.
DATUM.--Land surface, 250 ft National Geodetic Vertical Datum of 1929. Measuring point: remove pressure gage, 2.00 ft above land surface.
REMARKS.--Water-quality records for June 1956, June 1970, April 1975, and June 1982 are available in files of district office. Water-level measurement discontinued.
PERIOD OF RECORD.--March 1968 to April 1972.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.90 ft below land surface, Apr. 11, 1968; lowest, 19.89 ft below land surface, Apr. 14, 1972.

355712089580201. Local number, 15N10E01ADD1.
LOCATION.--Lat 35°57'12", long 89°58'02", Hydrologic Unit 08020204, at Gosnell.
Owner: Town of Gosnell.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in, depth 1,373 ft.
DATUM.--Land surface, 248 ft National Geodetic Vertical Datum of 1929.
PERIOD OF RECORD.--June 1967, March 1970 to March 1973, April 1975 to curren tyear.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.70 ft below land surface, Apr. 9, 1975; lowest, 21.64 ft below land surface, Apr. 10, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 10, 1990, 21.64 ft 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 (city well No. 1).
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply unused artesian well, diameter 10-6 in, depth 1,083 ft cased 0-1,000 ft, screened 1,000-1,083 ft.
DATUM.--Land surface, 236 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of outer casing, 1.00 ft above land surface.
REMARKS.--Water-quality records for 1956 in files of district office.
PERIOD OF RECORD.--November 1958, March 1967 to March 1988.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft below land surface, Nov. 5, 1958; lowest, 10.18 ft below land surface, June 10, 1967.

MONROE COUNTY

344145091175601. Local number, 01N03W14CCB1.
LOCATION.--Lat 34°41'45", long 91°17'56", Hydrologic Unit 08020303, at Clarendon.
Owner: City of Clarendon.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply water-table well, depth 595 ft.
DATUM.--Land surface, 172 ft National Geodetic Vertical Datum of 1929. Measuring point: Vent hole northside of base, 3.6 ft above land surface.
PERIOD OF RECORD.--November 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.99 ft below land surface, Apr. 10, 1984; lowest, 60.57 ft below land surface Nov. 30, 1983.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1990, 55.74 ft below land surface.

345201091072101. Local number, 03N01W20ABA1.
LOCATION.--Lat 34°52'01", long 91°07'21", Hydrologic Unit 08020304, near Garrett Grove.
Owner: C. E. Mitchell.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 22-18 in.
DATUM.--Land surface, 189 ft National Geodetic Vertical Datum of 1929. Meauring point: Bottom of cutout at land surface.
PERIOD OF RECORD.--July 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.70 ft below land surface, Apr. 4, 1975; lowest, 35.46 ft below land surface, Mar. 22, 1989.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1990, 34.37 ft below land surface.

334756093231801. Local number, 11S22W08DAC1.
LOCATION.--Lat 33°47'56", long 93°23'18", 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, depth 1,052 ft, cased 0-1,002 ft, screened 1,002-1,052 ft.
DATUM.--Land surface, 305 ft National Geodetic Vertical Datum of 1929. Measuring point: 2-in plug in concrete base, 2.00 ft above land surface.
REMARKS.--Water-quality records for June 1972, and June 1983 are available in files of district office.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.20 ft below land surface, Mar. 24, 1986; lowest, 170.33 ft below land surface, Mar. 31, 1981.
MEASUREMENT FOR CURRENT YEAR.--Apr. 23, 1990, 79.41 ft below land surface.

334757093231208. Local number, 11S22W08DAC8.
LOCATION.--Lat 33°47'57", long 93°23'12", Hydrologic Unit 08040103, at Prescott.
Owner: City of Prescott
AQUIFER.--Tokio Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 6 in, depth 1,050 ft, cased 0-1,002 ft, screened 1,002-1,050 ft.
DATUM.--Land surface, 305 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1983 and June 1988 are available in files of district office.

334759093231302. 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, depth 232 ft, cased 0-172 ft, screened 172-232 ft.
DATUM.--Land surface, 306 ft National Geodetic Vertical Datum of 1929. Measuring point: 1-in pipe on northeast side of concrete base, 1.70 ft above land surface.
REMARKS.--Water-quality records for June 1981 and June 1986 are available in files of district office.
PERIOD OF RECORD.--May 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.71 ft below land surface, Apr. 23, 1990; lowest, 138.42 ft below land surface, Apr. 9, 1974.
MEASUREMENT FOR CURRENT YEAR.--Apr. 23, 1990, 38.71 ft 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, depth 120 ft, cased 0-117 ft, screened 117-120 ft.
DATUM.--Land surface, 235 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.60 ft 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, 18.29 ft below land surface, May 3, 1990; lowest, 53.20 ft below land surface, Oct. 1, 1970.
MEASUREMENT FOR CURRENT YEAR.--May 3, 1990, 18.29 ft 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, depth 300 ft.
DATUM.--Land surface, 159 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft above land surface.
PERIOD OF RECORD.--October 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.48 ft below land surface, May 15, 1962; lowest, 30.27 ft below land surface, Apr. 5, 1968.
MEASUREMENT FOR CURRENT YEAR.--May 4, 1989, 23.90 ft below land surface.

PHILLIPS COUNTY

340851091004201. Local number, 06S01E28AAA1.
LOCATION.--Lat 34°08'51", long 91°00'42", Hydrologic Unit 08020303, near Henrico.
Owner: Billy Carter.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Irrigation water-table well, diameter 16-14 in.
DATUM.--Land surface, 151 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in casing, 0.5 ft above land surface.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.90 ft below land surface, May 18, 1973; lowest, 19.22 ft below land surface, Mar. 28, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 17, 1990, 11.39 ft below land surface.

342910090363401. Local number, 02S05E29CBC1.
LOCATION.--Lat 34°29'30", long 90°36'34", Hydrologic Unit 08020303, near Helena.
Owner: Arcadian Corporation, formerly Allied Chemical Co.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled industrial artesian well, diameter 16 in, depth 377 ft, cased 0-298 ft, screened 298-358 ft.
DATUM.--Land surface, 179 ft National Geodetic Vertical Datum of 1929.
REMARKS.--This well replaced 02S05E29CCC1 for quality-water records. Water-quality records for June 1982 are available in files of district office.

342856090363601. Local number, 02S05E29CCC1.
LOCATION.--Lat 34°28'56", long 90°36'36", Hydrologic Unit 08020303, near Helena.
Owner: Arcadian Corporation, formerly Allied Chemical Co.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in, depth 308 ft, cased 0-278 ft, screened 278-308 ft.
DATUM.--Land surface, 179 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land surface.
REMARKS.--Water-quality records for June 1970 and March 1975 are available in files of district office.
PERIOD OF RECORD.--February 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.17 ft below land surface, May 22, 1983; lowest, 98.13 ft below land surface, July 13, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1989, 43.16 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.16	29.17	31.98	32.61	9.41	35.82	---	---	---	---	---	25.85
10	28.73	29.61	32.71	37.65	7.12	7.44	---	---	---	---	---	27.28
15	29.97	30.23	35.96	30.80	7.12	7.12	---	---	---	---	---	27.11
20	29.74	30.79	4.95	4.61	7.12	---	---	---	---	---	---	27.62
25	29.36	31.33	7.12	7.12	35.12	---	---	---	---	---	---	27.23
EOM	28.42	31.47	13.30	11.05	33.00	---	---	---	---	---	26.90	26.36
MAX	31.76	34.79	37.47	38.86	35.12	---	---	---	---	---	---	27.81
MIN	27.37	29.15	2.98	2.25	7.12	---	---	---	---	---	---	25.83

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, depth 112 ft.
DATUM.--Land surface, 147 ft National Geodetic Vertical Datum of 1929. 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 below land surface, Apr. 25, 1973; lowest, 17.44 ft below land surface, Aug. 11, 1982, and Sept. 9, 1983.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1989, 11.22 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.86	14.75	14.66	14.40	11.54	9.46	9.25	8.43	8.43	15.02	15.94	16.20
10	14.81	14.78	14.68	14.28	10.21	7.74	8.91	9.50	9.21	14.66	16.31	15.63
15	14.82	14.76	14.73	14.25	9.23	7.78	9.42	9.87	11.22	15.42	16.48	15.43
20	14.68	14.77	14.77	13.91	9.22	7.95	9.88	10.08	14.01	15.73	16.77	15.42
25	14.71	14.70	14.73	13.84	9.05	8.97	9.89	8.08	12.41	15.34	16.99	15.43
EOM	14.75	14.74	14.61	13.34	9.28	8.33	9.30	8.96	13.98	16.05	17.08	15.49
MAX	15.04	14.82	14.84	14.63	13.21	9.89	9.97	10.48	14.29	16.05	17.08	17.22
MIN	14.67	14.68	14.61	13.34	8.65	7.02	8.35	7.80	8.37	14.03	15.93	15.41

WTR YR 1990 HIGH 7.02 MAR 17 LOW 17.22 SEP 2

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.--Sand, Memphis aquifer of the Claiborne group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 6 in, depth 302 ft, cased 0-260 ft, screened 260-302 ft.
DATUM.--Land surface, 232 ft National Geodetic Vertical Datum of 1929. Measuring point: Bottom of large opening south, side of pump, 1.80 ft above land surface.
REMARKS.--Water-quality records for June 1970, March 1975, June 1982 and June 1986, are available in files of district office.
PERIOD OF RECORD.--March 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.20 ft below land surface, Apr. 8, 1968; lowest, 75.07 ft below land surface, Apr. 18, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1990, 75.07 ft below land surface.

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, depth 632 ft, cased 0-545 ft, screened 545-632 ft.
DATUM.--Land surface, 220 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 1.00 ft 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 below land surface, Apr. 29, 1938; lowest 142.96 ft below land surface, Mar. 31, 1989.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1990, 135.18 ft 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, depth 314 ft, cased 0-254 ft, screened 254-314 ft.
DATUM.--Land surface, 232 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 2.00 ft 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 below land surface, Mar. 20, 1963; lowest, 114.67 ft below land surface, May 22, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1990, 110.40 ft 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.
DATUM.--Land surface, 212 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 0.50 ft above land surface.
PERIOD OF RECORD.--December 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.-Highest water level measured, 47.73 ft below land surface, Apr. 2, 1968; lowest, 67.60 ft below land surface, Mar. 23, 1990.
MEASUREMENTS FOR CURRENT YEAR.--Mar. 23, 1990, 67.60 ft. below land surface.

ST. FRANCIS COUNTY

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, depth 151 ft.
DATUM.--Land surface, 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in southwest side of pump base, 3.00 ft 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 below land surface, June 29, 1961; lowest, 34.95 ft below land surface, Mar. 27, 1989.
MEASUREMENT FOR CURRENT YEAR.--Apr. 19, 1990, 33.38 ft 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, depth 110 ft.
DATUM.--Land surface, 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 1.70 ft 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 March 1988.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.59 ft below land surface, Mar. 31, 1975; lowest, 26.13 ft below land surface, Mar. 18, 1966.

350723090324901. Local number, 06N05E22ACC1.
LOCATION.--Lat 35°07'30", long 90°32'49", Hydrologic Unit 08020203, near Rhea.
Owner: Unknown.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Irrigation water-table well, diameter 12-8 in.
DATUM.--Land surface, 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land surface.
PERIOD OF RECORD.--March 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.10 ft below land surface, Apr. 1, 1975; lowest, 29.82 ft below land surface, Apr. 18, 1990.
MEASUREMENT FOR CURRENT YEAR.--Apr. 18, 1990, 29.82 ft below land surface.

335808094100101. Local number, 09S30W23BDD1.
LOCATION.--Lat 33°58"08', long 94°10'01", Hydrologic Unit 1140109, at Lockesburg (city well No. 2).
Owner: City of Lockesburg.
AQUIFER.--Trinity Group of Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 197 ft.
DATUM.--Land surface, 440 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land surface.
PERIOD OF RECORD.--November 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.17 ft below land surface, Apr. 17, 1968; lowest, 81.76 ft below land surface, Apr. 5, 1978.
MEASUREMENT FOR CURRENT YEAR.--Apr. 26, 1990, 49.24 ft below land surface.

335806094100102. Local number, 09S30W23BDD2.
LOCATION.--33°58'06", long 94°10'01", Hydrologic Unit 11140109, at Lockesburg (city well No. 2).
Owner: City of Lockesburg.
AQUIFER.--Trinity Group of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 195 ft, screened 175-195 ft.
DATUM.--Land surface, 440 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Water-quality records for June 1972, February 1977, June 1982, and August 1989 are available in files of district office.

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, depth 601 ft, cased 0-546 ft, screened 546-601 ft.
DATUM.--Land surface, 175 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in pipe, south side of pump base, 1.50 ft above land surface.
PERIOD OF RECORD.--November 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 182.33 ft below land surface, Nov. 11, 1967; lowest, 220.98 ft below land surface, Apr. 7, 1988.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 2, 1990, 219.94 ft below land surface.

330228092111201. Local number,19S11W25AAA1.
LOCATION.--Lat 33°02'28", long 92°11'12", Hydrologic Unit 08040202, at Huttig (city well No. 2).
Owner: City of Huttig.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10-6 in, depth 529 ft, cased 0-469 ft, screened 469-529 ft.
DATUM.--Land surface, 135 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump base, 1.50 ft above land surface.
PERIOD OF RECORD.--December 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.63 ft below land surface, Mar. 12, 1965; lowest, 138.39 ft below land surface, Apr. 10, 1985.
MEASUREMENTS FOR CURRENT YEAR.--Mar. 27, 1990, 130.95 ft below land surface.

331358092424301. Local number, 17S16W24BDB1.
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, depth 615 ft, cased 0-493 ft, screened 493-615 ft.
DATUM.--Land surface, 205 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 2.00 ft above land surface.
REMARKS.--Water-quality records for June 1972, August 1977, June 1981, and August 1989 are 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 below land surface, Apr. 10, 1973; lowest, 370.58 ft below land surface, Mar. 27, 1990.
MEASUREMENTS FOR CURRENT YEAR.--Mar. 27, 1990, 370.58 ft below land surface.

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, depth 540 ft, cased 0-520 ft, screened 520-540 ft.
DATUM.-Land surface, 182.93 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft above land surface.
PERIOD OF RECORD.--July 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 269.70 ft below land surface, Apr. 20, 1956; lowest, 357.51 ft below land surface, July 30, 1966.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 5, 1989, 336.27 ft below land surface.

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, depth 705 ft, cased 0-605 ft, screened 605-705 ft.
DATUM.--Land surface, 285 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 1.20 ft above land surface.
PERIOD OF RECORD.--April 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 315.37 ft below land surface, Apr. 3, 1968; lowest, 347.75 ft below land surface, Sept. 30, 1987.
MEASUREMENTS FOR CURRENT YEAR.--Apr. 4, 1989, 347.00 ft below land surface.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	353.51	353.37	353.35	353.16	353.08	347.33	347.50	347.35	348.10	---	---
10	353.47	353.48	353.32	353.37	353.01	352.98	347.40	347.52	347.52	---	---	349.64
15	353.47	353.62	353.40	353.42	352.93	352.85	347.38	347.36	347.54	---	---	349.69
20	353.63	353.55	353.46	353.20	353.20	353.12	347.49	347.26	347.65	---	---	349.84
25	353.65	353.40	353.46	353.25	353.26	347.80	347.46	347.35	347.78	---	349.27	349.96
EOM	353.58	353.59	353.32	353.20	353.18	347.35	347.40	347.33	347.91	---	349.41	350.06
MAX	---	353.71	353.71	353.49	353.26	353.15	347.51	347.52	347.92	---	---	---
MIN	---	353.35	353.31	353.13	352.93	347.28	347.32	347.26	347.35	---	---	---

WASHINGTON COUNTY

360509094224101. Local number, 16N32W09ABD1.
LOCATION.--Lat 36°05'09", long 94°22'41", Hydrologic Unit 11140109, at Lake Wedington.
Owner: U.S. Forrest Service.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 1,815 ft, cased 0-253 ft.
DATUM.--Land surface, 1,135 ft Ntional Geodetic Vertical Datum of 1929.
PERIOD OF RECORD.--May 1968, November 1971 to December 1975, May 1977 to April 1983, April 1985 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 99.00 ft below land surface, May 24, 1968; lowest, 129.04 ft below land surface, Mar. 29, 1990.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1990, 129.04 ft below land surface.

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, depth 110 ft, cased 0-80 ft, screened 80-110 ft.
DATUM.--Land surface, 212 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of casing, 1.00 ft above land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.07 ft below land surface, Dec. 10, 1959; lowest, 22.94 ft below land surface, Sept. 26, 1963.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1990, 22.32 ft below land surface.

Analyses of samples collected statewide are given in the following tables. The analyses are grouped by counties.

AQUIFER NAMES CORRESPONDING TO GEOLOGIC UNITS LISTED IN THE QUALITY OF GROUND-WATER TABLES ARE GIVEN BELOW.

GEOLOGIC UNIT	AQUIFER NAME	GEOLOGIC UNIT	AQUIFER NAME
112TRRC	TERRACE DEPOSITS	12405MP	MEMPHIS AQUIFER
110ALVM	QUATERNARY ALLUVIUM	124WLCX	WILCOX GROUP, EOCENE

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

CRAIGHEAD COUNTY

354236090504401 - 13N02E35DAC1

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GEOLOGIC UNIT	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
AUG 08...	1140	80513	81213	112TRRC	734	7.0	18.0	360	110	21

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
AUG 08...	33	16	0.8	1.9	346	56	12	0.40	37	486

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BORON, DISSOLVED (UG/L AS B) (01020)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)
AUG 08...	486	0.66	<0.100	0.200	200	20	<0.5	1.0	<5	<3

354635090365601 - 13N04E12ABB1

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GEOLOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
AUG 08...	0800	80513	81213	110ALVM	20.00	555	7.0	17.0	310	89	20

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
AUG 08...	26	16	0.6	1.0	326	17	11	0.30	26	382

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

CRAIGHEAD COUNTY--CONTINUED

354635090365601 - 13N04E12ABB1--CONTINUED

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
AUG 08...	390	0.52	<0.100	0.050	260	<10	<0.5	<1.0	<5	<3

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 08...	<10	3300	<10	10	180	<10	<10	<1.0	180	<3

CROSS COUNTY

351544090334101 - 07N05E04ADD1

DATE	TIME	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	GEO-LOGIC UNIT	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT 18...	1000	80513	80020	12405MP	227	7.5	15.0	49	13	3.8
NOV 07...	1135	80513	80020	12405MP	--	--	--	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 18...	24	49	2	5.3	120	<1.0	3.4	0.10	13	128
NOV 07...	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT 18...	<0.100	0.020	250	70	<0.5	<1.0	<5	<3	30	1100
NOV 07...	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	TRITIUM TOTAL (PCI/L) (07000)
OCT 18...	10	7	32	<10	<10	<1.0	660	57	--
NOV 07...	--	--	--	--	--	--	--	--	<26

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

GREENE COUNTY

360322090290401 - 17N06E31DCB1

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GEOLOGIC UNIT	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
AUG 07...	1330	80513	80020	124WLCX	221	6.9	20.0	10	2.5	0.97

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
AUG 07...	60	91	8	2.0	128	1.9	2.8	0.30	12	161

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BORON, DISSOLVED (UG/L AS B) (01020)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)
AUG 07...	161	0.22	<0.100	0.360	19	210	<0.5	2.0	<5	<3

DATE	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
AUG 07...	<10	380	<10	20	23	<10	<10	<1.0	95	5

POINSETT COUNTY

352930090582501 - 10N01E15DBB1

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	GEOLOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
AUG 08...	1330	80513	80020	12405MP	76.24	517	7.0	18.0	190	52

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
AUG 08...	14	43	33	1	3.0	265	<1.0	17	0.10	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

POINSETT COUNTY--CONTINUED

352930090582501 - 10N01E15DBB1--CONTINUED

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
AUG 08...	291	<0.100	0.110	220	30	<0.5	2.0	<5	<3	<10

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
AUG 08...	1800	<10	8	170	<10	<10	<1.0	400	<3

00040380 NATIONAL TRENDS NETWORK SITE NEAR CADDO VALLEY, ARK.

LOCATION.--Lat 34°10'45", long 93°05'54", in NW ¼ NW ¼ sec.36, T.6 S., R.20 W., Clark County, Hydrologic Unit 08040102, approximately 1.6 mi west of Caddo Valley.

PERIOD OF RECORD.--January 1984 to September 1990.

INSTRUMENTATION.--An automatic wet-dry precipitation collector is used to collect 7-day accumulations. The collector is equipped with a precipitation sensor which activates a motor to operate the sample bucket cover. The sample bucket remains uncovered for the duration of each precipitation event and covered during dry periods. Dryfall samples are not collected. A standard 8.0-inch recording rain gage is used to obtain onsite precipitation records.

REMARKS.--These data are part of the data for this site verified by the National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) Coordinator. Additional data are available from the NADP/NTN Coordinator, Natural Resource Ecology Laboratory, Fort Collins, Colorado 80523. Data for all sites in the network are published quarterly by the NADP/NTN Coordinator's Office. Laboratory analyses were performed by the Central Analytical Laboratory of the Illinois State Water Survey.

PRECIPITATION QUALITY, FEBRUARY 1989 TO September 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	TOTAL PRECIPITATION FOR DEFINED PERIOD (IN) (00193)	COLLECTOR EFFICIENCY WET DEPOS. PERCENT (82284)	PH FIELD ATM DEP WET T (UNITS) (83106)	PH LAB ATM DEP WET T (UNITS) (83107)	SPEC. CONDUCTANCE FIELD ATM DEP WET TOT (US/CM) (83154)	SPEC. CONDUCTANCE LAB ATM DEP WET TOT (US/CM) (83156)
AUG 1989									
15-22	1400	300	17003	0.0	--	--	6.28	--	1.7
22-29	1400	300	17003	0.03	55	--	4.59	--	22.7
AUG 29-SEP 05	1400	300	17003	1.25	100	4.76	4.63	8.9	13.0
SEP									
05-12	1400	300	17003	0.48	98	5.03	5.00	7.1	7.0
12-19	1400	300	17003	0.13	116	4.41	4.42	21.2	22.8
19-26	1400	300	17003	0.0	--	--	--	--	--
SEP 26-OCT 03	1400	300	17003	0.53	95	4.44	4.43	16.0	17.9
OCT									
03-10	1400	300	17003	0.42	100	4.70	4.89	11.6	12.0
10-17	1400	300	17003	0.54	100	5.15	5.57	4.0	2.7
17-24	1400	300	17003	0.09	106	4.75	5.80	11.8	8.2
24-31	1400	300	17003	0.51	100	4.84	5.01	11.2	7.9
OCT 31-NOV 07	1500	300	17003	0.16	99	4.46	4.66	30.8	27.5
NOV									
07-14	1500	300	17003	0.31	103	4.49	4.49	19.4	21.8
14-21	1500	300	17003	0.0	--	--	--	--	--
21-28	1500	300	17003	0.66	97	4.77	4.72	9.6	10.2
NOV 28-DEC 05	1500	300	17003	0.0	--	--	--	--	--
DEC									
05-12	1500	300	17003	0.49	90	4.46	4.65	26.3	20.4
12-19	1515	300	17003	0.25	93	--	--	--	--
19-26	1545	300	17003	0.0	--	--	--	--	--
DEC 26-JAN 02	1500	300	17003	1.49	98	4.70	4.78	10.5	10.1
JAN									
02-09	1500	300	17003	0.69	96	4.75	4.80	9.7	8.9
09-16	1500	300	17003	--	--	--	5.76	--	52.0
16-23	1500	300	17003	4.48	98	4.90	4.85	9.1	9.0
23-30	1500	300	17003	1.50	96	4.57	4.62	14.1	16.8
JAN 30-FEB 06	1500	300	17003	1.73	97	4.61	4.65	13.2	14.1
FEB									
06-13	1430	300	17003	0.70	101	4.90	4.95	8.2	7.6
13-20	1500	300	17003	0.28	102	4.77	5.11	14.8	10.2
20-27	1500	300	17003	0.95	101	4.85	4.83	7.9	7.6
FEB 27-MAR 06	1500	300	17003	0.53	96	4.12	4.12	39.5	43.4
MAR									
06-08	1500	300	17003	7.31	97	4.64	4.71	12.4	13.3
08-13	2200	300	17003	0.12	132	4.34	4.38	37.5	40.6
13-20	1500	300	17003	0.84	98	4.98	5.06	11.7	9.9
20-27	1500	300	17003	0.59	98	4.40	4.42	18.5	21.0
MAR 27-APR 03	1500	300	17003	3.00	97	4.76	4.78	10.1	10.3
APR									
03-10	1400	300	17003	2.48	98	4.75	4.73	10.1	10.5

00040380 NATIONAL TRENDS NETWORK SITE NEAR CADDO VALLEY, ARK.--CONTINUED

PRECIPITATION QUALITY, FEBRUARY 1989 TO September 1990

DATE	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG-NESIUM ATM DEP WET DIS (MG/L) (83002)	POTAS-SIUM ATM DEP WET DIS (MG/L) (83120)	SODIUM ATM DEP WET DIS (MG/L) (83138)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L) (83047)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L) (83071)	CHLO-RIDE ATM DEP WET DIS (MG/L) (82944)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L) (83111)
AUG 1989 15-22	<0.010	0.006	0.009	0.143	<0.020	0.05	0.08	0.07	<0.020
AUG 22-29	0.200	0.055	0.110	0.294	0.760	3.36	0.52	2.66	0.150
AUG 29-SEP 05	0.080	0.008	0.009	0.050	0.100	0.85	0.08	1.00	<0.020
SEP 05-12	0.050	0.014	0.013	0.084	0.110	0.63	0.13	0.60	<0.020
SEP 12-19	0.040	0.017	0.053	0.086	0.810	1.74	0.20	1.99	<0.020
SEP 19-26	--	--	--	--	--	--	--	--	--
SEP 26-OCT 03	0.030	0.005	0.007	0.015	0.060	0.81	0.05	1.60	<0.020
OCT 03-10	0.170	0.013	0.007	0.053	0.160	0.68	0.08	1.15	<0.020
OCT 10-17	0.010	0.006	0.004	0.075	0.030	0.19	0.12	0.24	<0.020
OCT 17-24	0.100	0.017	0.013	0.099	0.340	0.85	0.11	1.58	0.060
OCT 24-31	0.060	0.030	0.016	0.211	0.070	0.63	0.33	0.68	<0.020
OCT 31-NOV 07	0.610	0.130	0.113	0.903	0.790	2.74	1.48	3.29	0.020
NOV 07-14	0.250	0.035	0.038	0.256	0.450	1.73	0.39	2.22	<0.020
NOV 14-21	--	--	--	--	--	--	--	--	--
NOV 21-28	0.050	0.008	0.007	0.031	0.080	0.75	0.06	0.78	<0.020
NOV 28-DEC 05	--	--	--	--	--	--	--	--	--
DEC 05-12	0.350	0.313	0.856	0.062	0.230	1.81	0.13	2.87	<0.020
DEC 12-19	--	--	--	--	--	--	--	--	--
DEC 19-26	--	--	--	--	--	--	--	--	--
DEC 26-JAN 02	0.050	0.012	0.009	0.095	0.180	0.49	0.17	0.96	<0.020
JAN 02-09	0.030	0.007	0.017	0.056	0.100	0.56	0.10	0.80	<0.020
JAN 09-16	0.450	0.344	0.172	3.00	0.730	4.35	4.89	4.26	0.360
JAN 16-23	0.040	0.023	0.015	0.182	0.130	0.54	0.30	0.79	<0.020
JAN 23-30	0.080	0.066	0.026	0.538	0.190	1.00	0.87	1.19	<0.020
JAN 30-FEB 06	0.160	0.026	0.024	0.164	0.180	0.85	0.26	1.44	<0.020
FEB 06-13	0.070	0.009	0.015	0.076	0.170	0.59	0.12	0.78	<0.020
FEB 13-20	0.360	0.050	0.038	0.249	0.230	0.93	0.39	1.46	<0.020
FEB 20-27	0.010	0.006	0.008	0.043	0.150	0.42	0.06	0.74	<0.020
FEB 27-MAR 06	0.060	0.058	0.033	0.469	0.770	3.23	0.86	3.63	<0.020
MAR 06-08	0.060	0.017	0.018	0.133	0.240	0.73	0.20	1.16	<0.020
MAR 08-13	0.250	0.261	0.168	2.20	0.480	2.05	3.48	3.53	<0.020
MAR 13-20	0.190	0.049	0.082	0.316	0.300	0.78	0.54	1.05	<0.020
MAR 20-27	0.140	0.021	0.014	0.075	0.180	0.86	0.13	1.95	<0.020
MAR 27-APR 03	<0.010	<0.003	0.010	0.039	0.220	0.61	0.10	1.05	<0.020
APR 03-10	0.100	0.021	0.056	0.050	0.170	0.83	0.08	0.93	<0.020

00040380 NATIONAL TRENDS NETWORK SITE NEAR CADDO VALLEY, ARK.--CONTINUED

PRECIPITATION QUALITY, FEBRUARY 1989 TO September 1990

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	TOTAL PRECIPITATION FOR DEFINED PERIOD (IN) (00193)	COLLECTOR EFFICIENCY WET DEPOS. PERCENT (82284)	PH FIELD ATM DEP WET T (UNITS) (83106)	PH LAB ATM DEP WET T (UNITS) (83107)	SPEC. CONDUCTANCE FIELD ATM DEP WET TOT (US/CM) (83154)	SPEC. CONDUCTANCE LAB ATM DEP WET TOT (US/CM) (83156)
APR 1990 10-17	1400	300	17003	2.09	100	4.42	4.46	18.9	20.0
APR 17-24	1400	300	17003	0.87	102	4.34	4.32	26.6	31.2
APR 24-MAY 01	1400	300	17003	0.88	99	4.60	4.64	14.0	15.7
MAY 01-08	1400	300	17003	2.67	99	4.80	4.74	13.1	13.3
MAY 08-15	1400	300	17003	1.03	102	5.28	5.42	8.3	8.5
MAY 15-22	1400	300	17003	3.79	98	4.98	4.99	12.8	13.2
MAY 22-29	1400	300	17003	1.14	98	4.70	4.64	13.0	13.6
MAY 29-JUN 05	1400	300	17003	3.09	97	4.60	4.55	18.9	20.2
JUN 05-12	1400	300	17003	0.0	--	--	5.90	--	1.4
JUN 12-19	1400	300	17003	0.0	--	--	5.82	--	1.8
JUN 19-26	1400	300	17003	0.13	98	4.16	4.37	38.0	29.4
JUN 26-JUL 03	1400	300	17003	0.20	104	4.45	4.50	26.2	28.2
JUL 03-10	1400	300	17003	0.0	--	--	5.74	--	1.8
JUL 10-17	1400	300	17003	0.96	99	4.28	4.25	22.1	30.4
JUL 17-24	1400	300	17003	1.20	99	4.66	4.84	12.3	11.3
JUL 24-31	1400	300	17003	0.65	97	4.65	4.62	13.1	14.5
JUL 31-AUG 07	1400	300	17003	0.18	102	4.51	4.64	20.4	17.4
AUG 07-14	1400	300	17003	0.19	103	4.00	4.04	57.2	54.9
AUG 14-21	1400	300	17003	0.02	53	--	4.49	--	37.5
AUG 21-28	1400	300	17003	0.50	99	4.20	4.18	28.2	34.7
AUG 28-SEP 04	1400	300	17003	0.0	--	--	5.88	--	2.1
SEP 04-11	1400	300	17003	0.17	108	4.09	4.08	39.9	45.6
SEP 11-18	1400	300	17003	1.27	101	4.75	4.64	10.0	12.1
SEP 18-25	1400	300	17003	2.00	99	4.81	4.71	10.9	11.2

CHEMICAL QUALITY OF PRECIPITATION
00040380 NATIONAL TRENDS NETWORK SITE NEAR CADDO VALLEY, ARK.--CONTINUED

PRECIPITATION QUALITY, FEBRUARY 1989 TO September 1990

DATE	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG-NESIUM ATM DEP WET DIS (MG/L) (83002)	POTAS-SIUM ATM DEP WET DIS (MG/L) (83120)	SODIUM ATM DEP WET DIS (MG/L) (83138)	NI-TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L) (83047)	NI-TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L) (83071)	CHLO-RIDE ATM DEP WET DIS (MG/L) (82944)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	PHOS-PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L) (83111)
APR 1990 10-17	0.080	0.026	0.017	0.179	0.220	1.12	0.33	1.61	<0.020
APR 17-24	0.190	0.067	0.097	0.450	0.620	2.22	0.62	3.22	<0.020
APR 24-MAY 01	0.140	0.050	0.046	0.307	0.260	1.32	0.42	1.38	<0.020
MAY 01-08	0.130	0.029	0.035	0.202	0.310	0.93	0.32	1.46	<0.020
MAY 08-15	0.350	0.037	0.036	0.193	0.320	0.87	0.30	1.22	<0.020
MAY 15-22	0.380	0.060	0.062	0.361	0.360	1.24	0.56	1.53	0.030
MAY 22-29	0.180	0.021	0.032	0.086	0.250	1.04	0.19	1.23	<0.020
MAY 29-JUN 05	0.250	0.037	0.038	0.214	0.430	1.12	0.36	2.28	<0.020
JUN 05-12	<0.010	<0.003	<0.003	0.017	0.040	0.04	0.03	<0.03	<0.020
JUN 12-19	<0.010	<0.003	0.004	0.023	<0.020	0.05	0.06	<0.03	<0.020
JUN 19-26	0.420	0.049	0.068	0.221	0.640	2.89	0.34	2.68	<0.020
JUN 26-JUL 03	0.700	0.082	0.066	0.213	0.800	4.05	0.39	2.53	<0.020
JUL 03-10	<0.010	<0.003	<0.003	0.014	<0.020	<0.03	0.06	0.03	0.060
JUL 10-17	0.220	0.027	0.024	0.092	0.170	1.84	0.18	2.22	<0.020
JUL 17-24	0.150	0.027	0.012	0.119	0.180	0.81	0.25	1.07	<0.020
JUL 24-31	0.150	0.041	0.027	0.257	0.030	1.14	0.43	1.04	<0.020
JUL 31-AUG 07	0.250	0.046	0.043	0.252	0.100	1.77	0.38	1.59	0.060
AUG 07-14	0.520	0.038	0.041	0.118	0.740	3.78	0.23	5.57	<0.020
AUG 14-21	--	--	--	--	--	--	--	--	--
AUG 21-28	0.080	0.015	0.027	0.075	0.350	1.96	0.12	2.97	<0.020
AUG 28-SEP 04	0.010	0.003	0.005	0.088	0.030	0.08	0.08	0.05	<0.020
SEP 04-11	0.360	0.061	0.031	0.182	0.140	3.79	0.33	3.59	<0.020
SEP 11-18	0.060	0.010	0.011	0.024	0.120	0.94	0.09	0.82	<0.020
SEP 18-25	0.050	0.010	0.010	0.074	0.160	0.87	0.17	0.79	<0.020

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