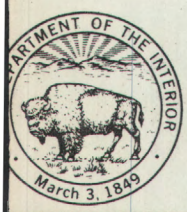
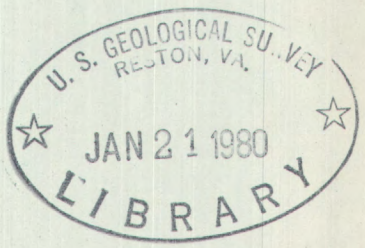


Water Resources Data for Arkansas



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

WATER YEAR 1978

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

CALENDAR FOR WATER YEAR 1978

1977

OCTOBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOVEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1978

JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Water Resources Data for Arkansas

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

WATER YEAR 1978

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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

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

1979

United States Department of the Interior

GEOLOGICAL SURVEY
Water Resources Division
Arkansas District
2301 Federal Office Building
Little Rock, Arkansas 72201

January 1980

Dear Data Report User:

We regret the quality of publication of the enclosed Data Report and apologize to you for that quality.

Our duplication instructions to the Government Printing Office in Dallas, Texas, were misinterpreted by that office when they prepared contract specifications for the printing. It was our judgment that a reprint of this document should not be attempted because of cost and time considerations.

Most of the information is readily legible and the remainder can be determined if you are familiar with the types of information reported. However, should you have any questions about any of the data, please don't hesitate to write or call this office.

U.S. Geological Survey
Water Resources Division
2301 Federal Office Building
Little Rock, Arkansas 72201
Telephone: (501) 378-6391
(FTS) 740-6391

Sincerely yours,

R. T. Sniegocki
District Chief

Enclosure

ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. USGS/WRD/HD-79/054	2.	3. Recipient's Accession No.

4. Title and Subtitle

Water Resources Data for Arkansas, Water Year 1978

5. Report Date
September 1979

6.

7. Author(s)

8. Performing Organization Rept. No.
USGS-WDR-AR-78-1

9. Performing Organization Name and Address

U.S. Geological Survey, Water Resources Division
2301 Federal Office Building
Little Rock, Arkansas 72201

10. Project/Task/Work Unit No.

11. Contract(C) or Grant(G) No.
(C)
(G)

12. Sponsoring Organization Name and Address

U.S. Geological Survey, Water Resources Division
2301 Federal Office Building
Little Rock, Arkansas 72201

13. Type of Report & Period Covered
Annual-Oct. 1, 1977 to Sept. 30, 1978

14.

15. Supplementary Notes

Prepared in cooperation with the State of Arkansas and with other agencies

16. Abstract (Limit: 200 words)

Water resources data for the 1978 water year for Arkansas consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels. This report contains discharge records for 75 gaging stations; stage only records for one gaging station; stage and contents for 10 lakes and reservoirs; water quality for 156 stations, 85 partial-record flow stations, and seven lakes; and water levels for 91 observation wells. Also included are 122 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Arkansas.

17. Document Analysis a. Descriptors

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

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
No restriction on distribution. This report may be purchased from: National Technical Information Service Springfield, VA 22161	20. Security Class (This Page)	668
		22. Price

(See ANSI-Z39.18)

OPTIONAL FORM 272 (4-77)
(Formerly NTIS-35)
Department of Commerce

CONTENTS

ILLUSTRATIONS

TABLES

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

WATER RESOURCES DATA FOR ARKANSAS, 1978

INTRODUCTION

Water resources data for the 1978 water year for Arkansas consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water-levels of wells. This report contains discharge records for 75 gaging stations; stage and contents for 10 lakes and reservoirs; water quality for 156 gaging stations, 85 partial-record stations, and seven lakes; and water levels for 91 observation wells. Also included are data for 122 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic-data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Arkansas.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and for 1961-65 and 1966-70 they were in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Arlington, VA 22304.

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

AR-78-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

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

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

Arkansas Department of Pollution Control and Ecology, Jarrell E. Southall, director.

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

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

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

The following organizations aided in collecting records:

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

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Streamflow was average for the 1978 water year. Slightly above-average rainfall over most of the State resulted in average runoff during the year. However, the storm of September 13, which produced up to 13.5 inches of rainfall in less than 6 hours, caused local severe flooding, and the loss of 10 lives in Saline and Pulaski counties in central Arkansas. Damage to homes, businesses, roads, and bridges was estimated at 25 million dollars.

The same storm of September 13 also caused severe flooding in Cross county in northeastern Arkansas. Damage to crops, roads, and bridges was estimated at 15 million dollars. A storm total of up to 16 inches of rainfall was reported at Cherry Valley in Cross county; however, the peak discharge at the gaging station in this same vicinity on the L'Anguille River near Colt, Ark., did not exceed the 10-year recurrence interval.

Ground-water levels in the Quaternary deposits in the heavy rice-growing area of east-central Arkansas (Grand Prairie) declined slightly from the previous year; however, increased ground-water withdrawals for rice irrigation in the Cache and L'Anguille River basins in northeast Arkansas caused water-level declines of about 1 foot in the Quaternary deposits.

Water levels in the Sparta Sand of Tertiary age declined about 3 feet in the Grand Prairie, owing to withdrawals for rice irrigation, and about 2 feet in the El Dorado, Magnolia, and Pine Bluff areas. Elsewhere in the State, water levels in the Sparta Sand and other aquifers showed slight change from the previous year.

NOTICE

During water year 1978, revisions were made in the terminology used to define 143 of the water-quality parameter codes that have been used by the Geological Survey in its publication of water-quality data and in its WATSTORE data system. These revisions were made to achieve consistency in terminology and to conform to a joint Geological Survey-Environmental Protection Agency agreement on terminology. They do not represent a change in the way the codes have been used in the past or in the association of specific code numbers with identified analytical procedures.

Use of the new terminology began with data for the 1978 water year, and therefore, it first appears in this publication. Definitions on which the terminology is based are included in the "Definitions" section of this report, and a table showing both old and new terminology is attached as an appendix to the report.

DEFINITIONS 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 a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms that produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

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

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

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

Ash mass is the mass or amount of residue present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash-mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample that passes through a 0.45-µm-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 dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant effect. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

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

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

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river upstream from the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

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

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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

Milligrams per liter (MG/L, mg/L) is a unit expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1 on the following page. 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 28.

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

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

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

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

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

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

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

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

Partial-record station is a particular site where limited streamflow and (or) water-quality data are collected systematically 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) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.	Sedimentation or sieve.
Gravel.....	2. - 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 to the total sample or population, in terms of types, numbers, mass, or volume.

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

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

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

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells 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 is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

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 (Rose, 1966). 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.

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

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

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

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

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

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

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

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids concentration of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

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

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S. 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 planimetered map was made.

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

Suspended, 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-µm-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 portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sample that is retained on a 0.45-µm-membrane filter. 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 determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions 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.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Limbata

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

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

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

AMPHIPODA (scuds, sideswimmers)
ANNELIDA (aquatic earthworms, leeches)
COELENTERATA (hydroids, jellyfish)
COLEOPTERA (beetles)
DECOPODA (crayfish, shrimp)
DIPTERA (flies, mosquitoes, midges)
EPHEMEROPTERA (mayflies)
GASTOPODA (snails, limpets)
HEMIPTERA (bugs)
HYDRACARINA (water mites)
ISOPODA (aquatic sow bugs)
MEGALOPTERA (alderflies, dobsonflies, fishflies)
ODONATA (drangonflies, damselflies)
PELECYPODA (clams, mussels)
PLECOPTERA (stoneflies)
PODOCOPA (seed shrimp)
TRICHOPTERA (caddisflies)
TRICLADIDA (flatworms)

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

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total 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 the "total" amount (that 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.

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

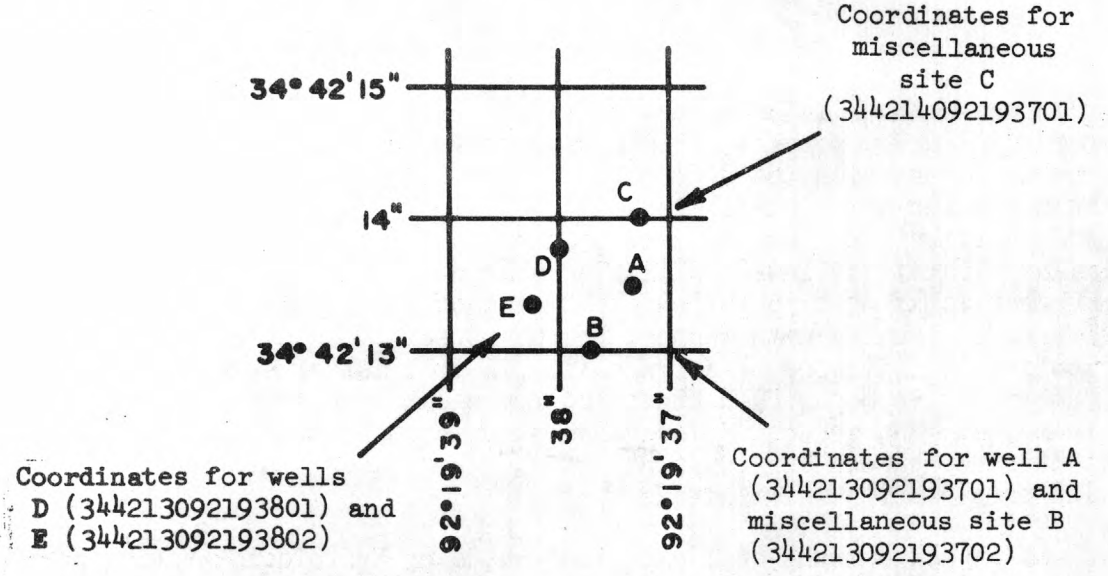
Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations 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 are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit 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."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous-site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15-digits. The first 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 wells or other sites within a 1-second grid. See diagram below.



SPECIAL NETWORKS AND PROGRAMS

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

National stream-quality accounting network (NASQAN) is a data-collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting

and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 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.

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

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

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

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

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

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. 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.

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

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

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. 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. Likewise, daily contents may be estimated on the basis of operator's log, prior to subsequent records, inflow-outflow studies, and other information.

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

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. 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 Topographic Division of the Geological Survey unless otherwise qualified.

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

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations, peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which peaks are subject to substantial control by man.

Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

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

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed

by a listing of discharge measurements made at sites other 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 3 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 due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables,

is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

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

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

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

810	Corps of Engineers, U.S. Army
9827	Arkansas Department of Pollution Control and Ecology
1028	U.S. Geological Survey

Water Analysis

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

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

Water-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of

sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory. 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."

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

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

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

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

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

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment-discharge value differs from the value computed as the product of 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 3 significant figures]

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

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

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 important aquifers.

Data are included for 91 wells in Arkansas (fig. 5). Eleven of the wells are equipped with automatic 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 important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See diagram on page 18.

Measurements are made in many types of wells and under varying conditions of access; hence, the method of measurement 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). International System equivalents follow the English System numerical values in the well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the depth to water may be a few tenths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or to the nearest foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

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

1-D1. *Water temperature-influential factors, field measurement, and data presentation,* by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. $1.60.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $0.25.

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

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

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

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

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1968. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1968. 22 pages. $0.40.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

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

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

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

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

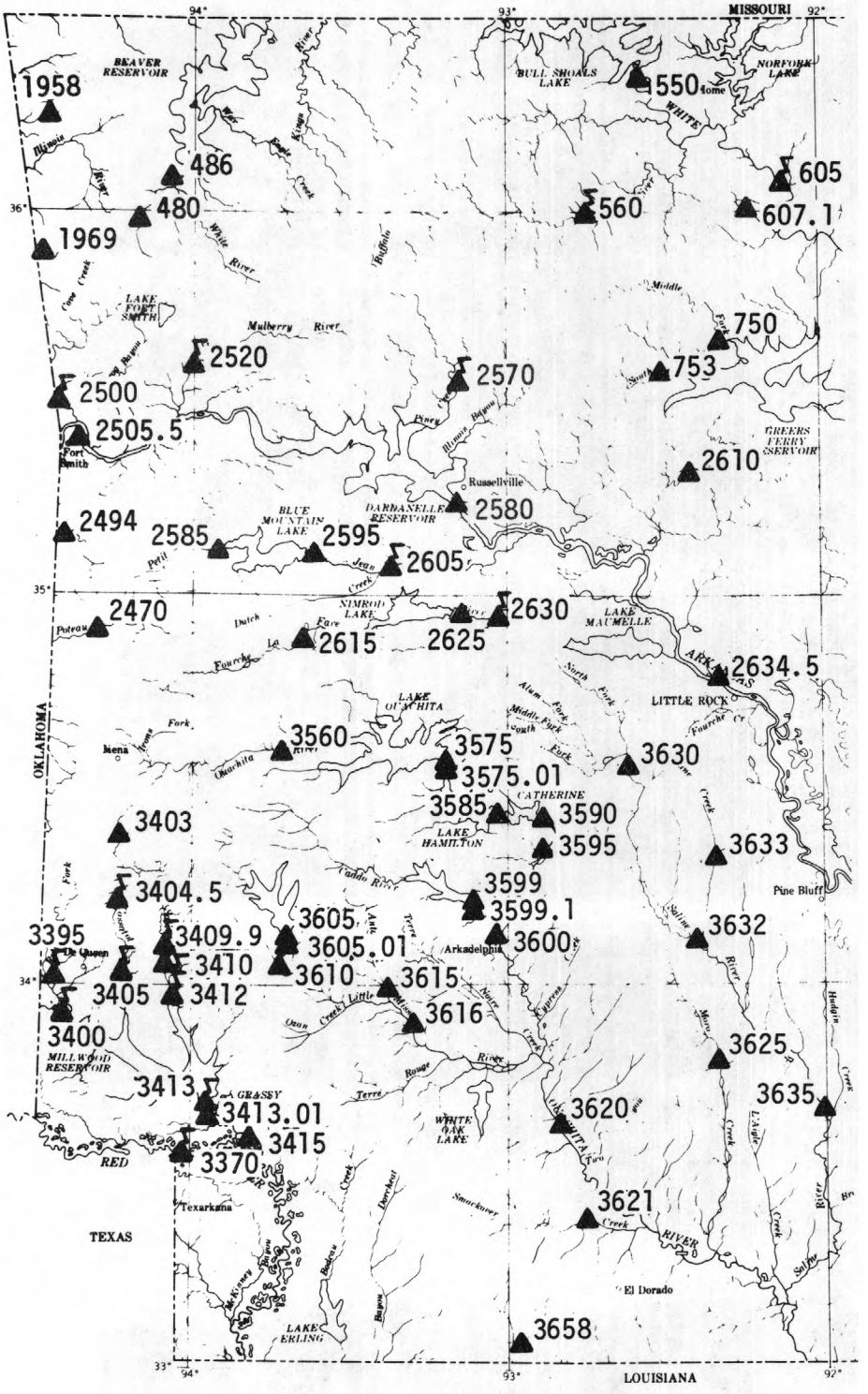


Figure 1.--Locations of continuous-record gaging stations in western Arkansas.

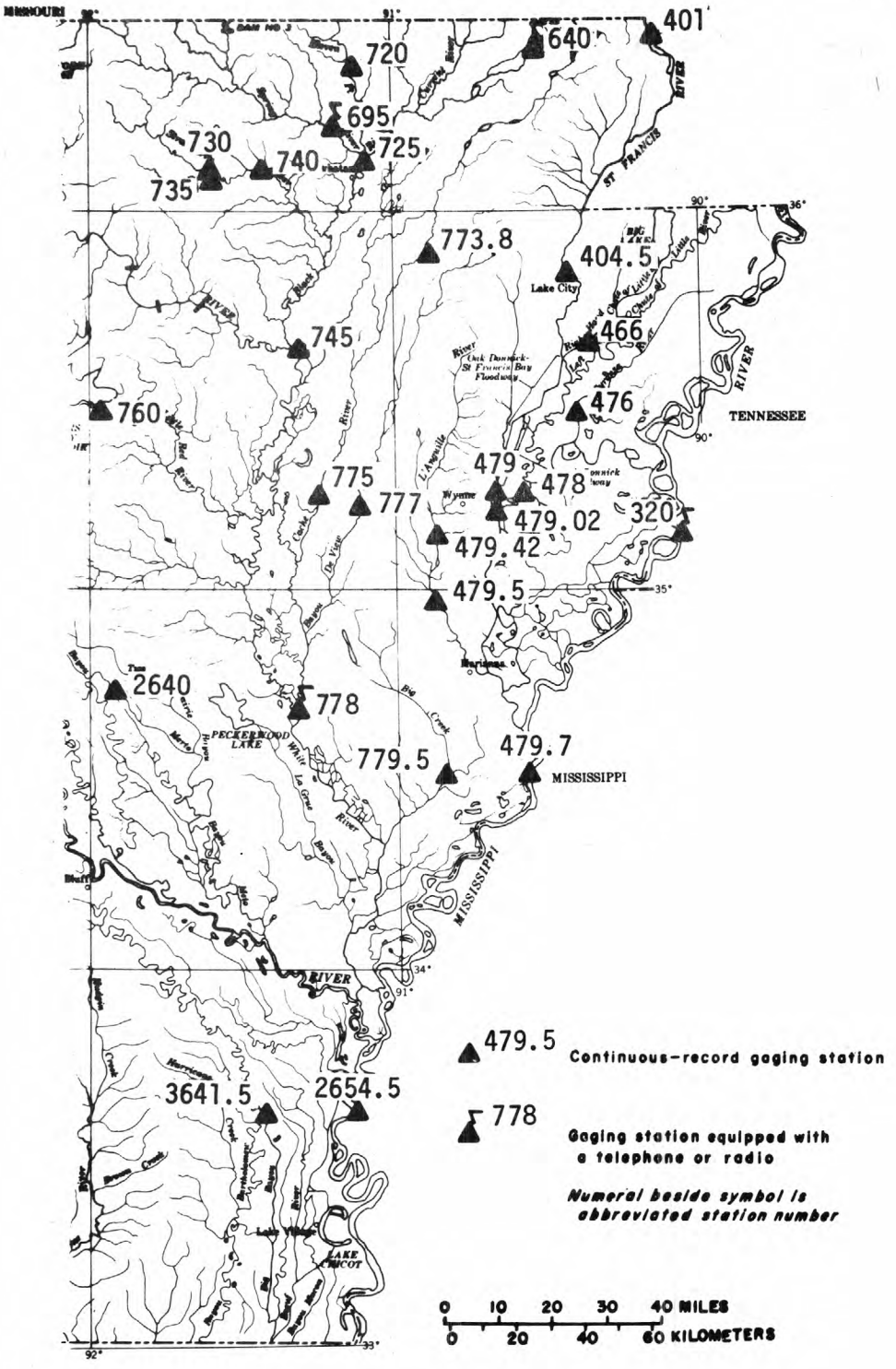


Figure 2.--Locations of continuous-record gaging stations in eastern Arkansas.

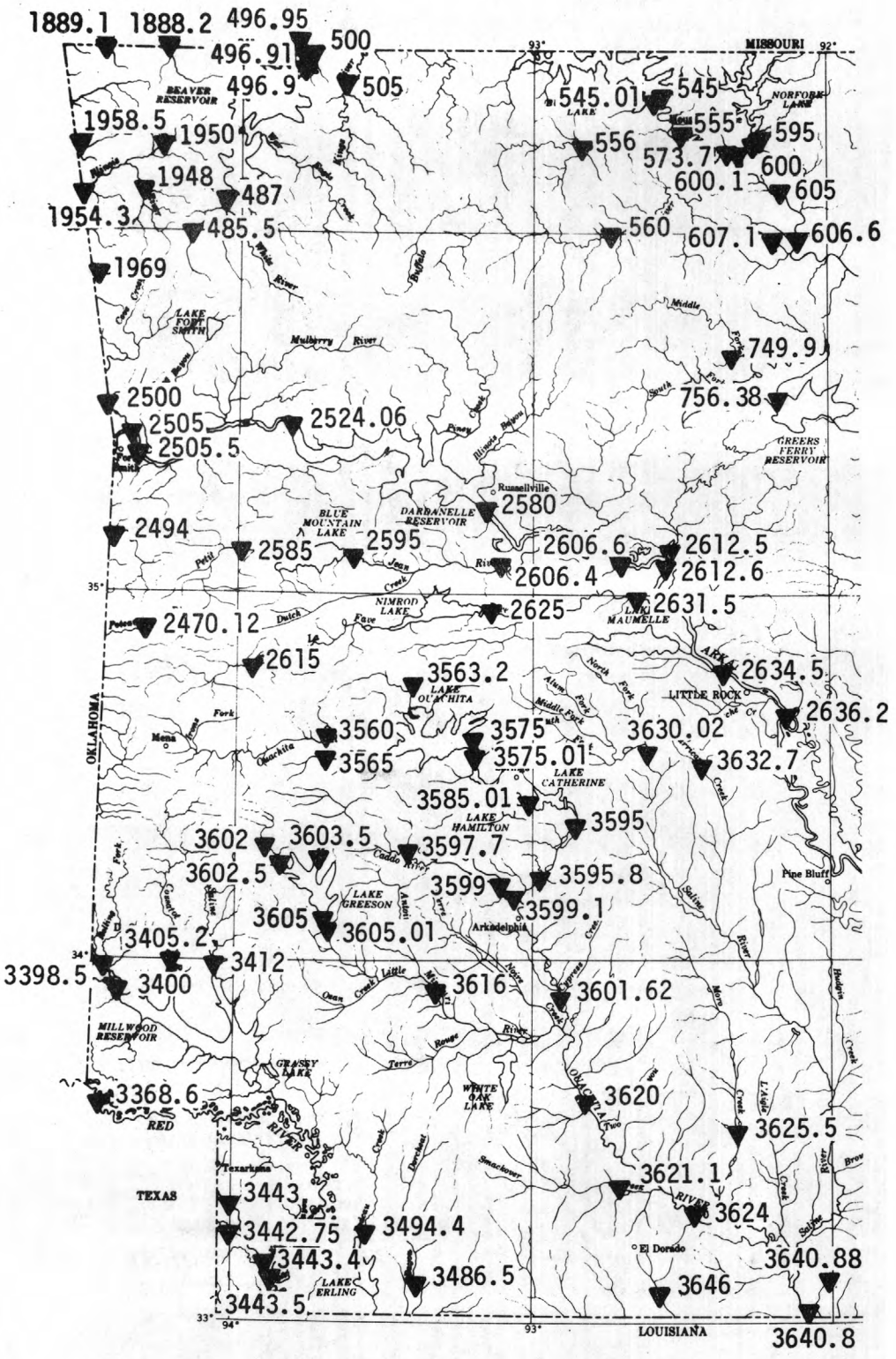


Figure 3.--Locations of water-quality stations in western Arkansas.

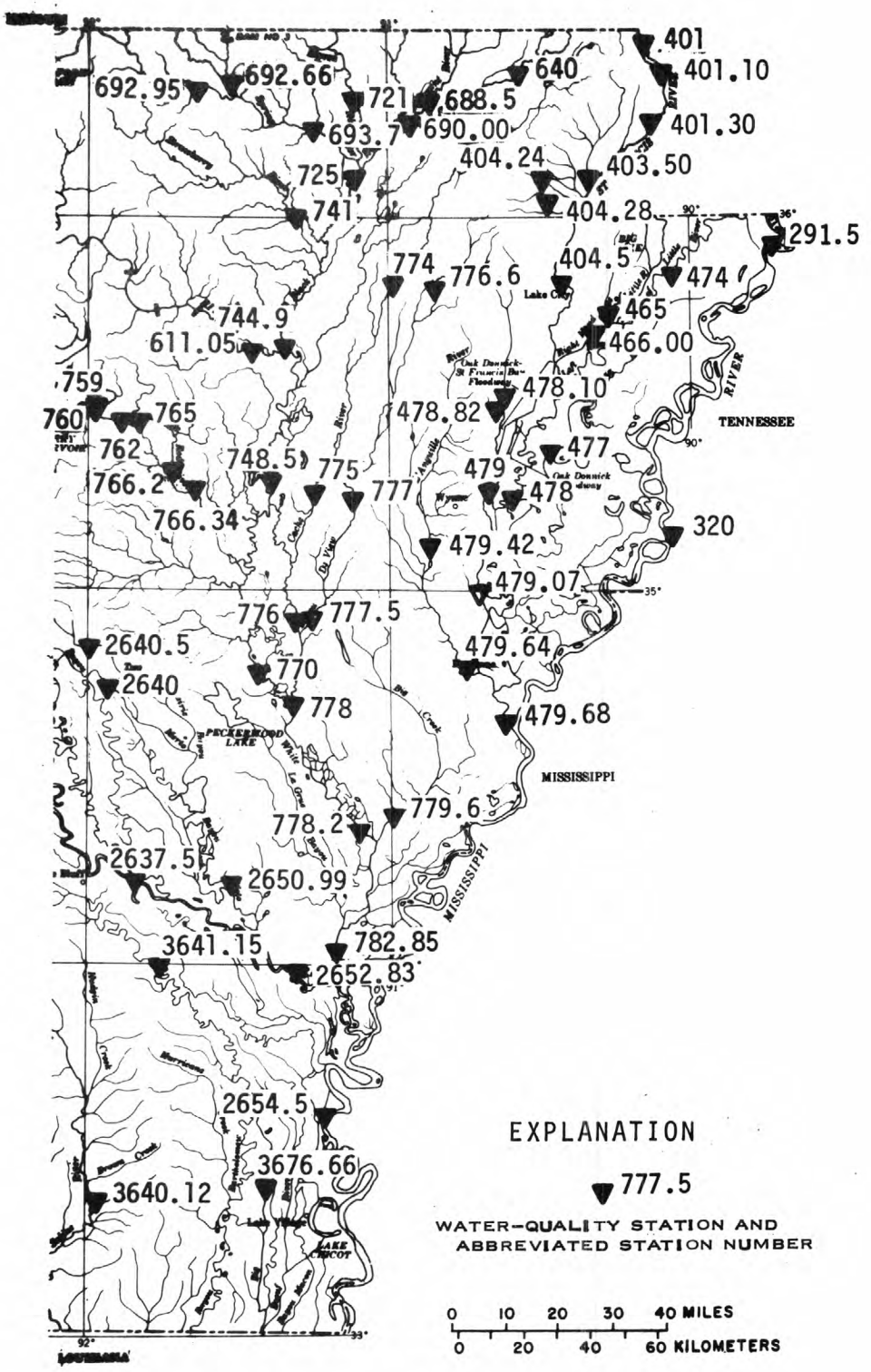


Figure 4.--Locations of water-quality stations in eastern Arkansas.

MISSISSIPPI RIVER MAIN STEM

07029150 MISSISSIPPI RIVER AT BARFIELD, AR

LOCATION.--Lat 35°54'03", long 89°45'36", in sec.24, T.15 N., R.12 E., Mississippi County, Hydrologic Unit 08010100, at west bank, 0.3 mi (0.5 km) southeast of the east end of State Highway 18, 0.4 mi (0.6 km) southeast of Barfield, and at mile 810.4 (1,303.9 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
03...	9827	9827	387	8.1	20.0	20	8.4	91	1.7	2800	--	30
31...	9827	9827	416	7.8	18.0	40	8.2	86	2.1	390	--	--
NOV												
28...	9827	9827	333	--	6.0	30	10.5	84	1.8	440	--	--
JAN												
03...	9827	9827	397	7.9	2.0	25	12.6	91	3.0	420	160	38
MAR												
07...	9827	9827	388	7.8	5.0	10	12.8	100	5.3	73	--	--
21...	9827	9827	314	7.3	8.0	60	10.8	91	4.3	<7	--	--
APR												
04...	9827	9827	--	7.8	15.0	40	8.6	84	3.0	170	92	15
24...	9827	9827	388	--	14.0	40	9.0	87	1.8	900	110	16
MAY												
22...	9827	9827	324	7.8	19.0	20	8.2	87	2.2	320	--	--
JUN												
12...	9827	9827	--	--	--	--	--	--	--	--	--	--
19...	9827	9827	419	8.0	24.0	10	8.2	96	1.7	400	--	--
JUL												
18...	9827	9827	406	--	28.0	40	7.2	91	1.7	1100	190	46
AUG												
28...	9827	9827	443	8.4	27.0	5	7.9	98	1.8	840	--	--
SEP												
18...	9827	9827	422	8.2	27.0	10	8.4	104	2.3	940	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
03...	13	17	4.8	94	54	18	250	114	1.4	<.05	1.4
31...	--	--	--	--	--	19	--	--	1.9	.06	2.0
NOV											
28...	--	--	--	--	40	15	206	83	1.4	<.05	1.4
JAN											
03...	14	14	3.5	110	15	22	252	116	2.4	<.05	2.4
MAR											
07...	--	--	--	--	55	22	254	159	1.5	.02	1.5
21...	--	--	--	--	41	15	220	271	1.4	.03	1.4
APR											
04...	9.8	10	5.9	97	42	15	210	208	2.0	.05	2.1
24...	13	13	4.5	120	47	18	247	277	2.5	.05	2.6
MAY											
22...	--	--	--	--	--	16	226	315	.99	.01	1.0
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	51	18	268	70	1.8	.01	1.8
JUL											
18...	15	17	5.1	110	55	--	258	206	2.3	.02	2.3
AUG											
28...	--	--	--	--	83	16	267	31	--	--	--
SEP											
18...	--	--	--	--	65	18	224	--	.59	<.01	.59

07029150 MISSISSIPPI RIVER AT BARFIELD, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
03...	.13	--	.09	1.5	6.6	.27	<10	8	10	--	<10
31...	.14	1.4	1.5	3.5	15	.67	<10	--	10	7900	--
NOV											
28...	.07	.93	1.0	2.4	11	.22	<10	--	<20	4000	--
JAN											
03...	.31	.89	1.2	3.6	16	.28	<10	10	<20	3700	10
MAR											
07...	.29	1.3	1.6	3.1	14	.20	<10	--	<20	3400	--
21...	.44	1.2	1.6	3.0	13	.11	<10	--	<20	9500	--
APR											
04...	.38	.72	1.1	3.2	14	--	<10	<5	70	7700	<10
24...	.05	1.2	1.3	3.9	17	.43	<10	--	<20	9400	<10
MAY											
22...	.14	.96	1.1	2.1	9.3	--	<10	--	20	9500	--
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	<.01	--	1.1	2.9	13	.18	--	--	<20	1900	--
JUL											
18...	1.7	--	.60	2.9	13	.28	<10	<5	90	6000	<10
AUG											
28...	--	--	.60	--	--	.20	<10	--	<20	920	--
SEP											
18...	.03	.27	.30	.89	3.9	.23	<10	--	<20	2800	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
03...	190	--	10	.00	.00	.00	.00	.00	.00	.00	0
31...	380	--	30	--	--	--	--	--	--	--	--
NOV											
28...	200	--	20	--	--	--	--	--	--	--	--
JAN											
03...	220	--	30	--	--	--	--	--	--	--	--
MAR											
07...	170	--	20	.00	.00	.00	.00	.00	.00	.00	0
21...	520	--	70	--	--	--	--	--	--	--	--
APR											
04...	330	--	40	--	--	--	--	--	--	--	--
24...	360	--	30	--	--	--	--	--	--	--	--
MAY											
22...	460	--	<10	--	--	--	--	--	--	--	--
JUN											
12...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
19...	160	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	<1.0	30	.00	.00	.00	.00	.00	.00	.00	0
AUG											
28...	85	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP											
18...	290	--	30	.00	.00	.00	.00	.00	.00	.00	0

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, Hydrologic Unit 08010100, on left bank 50 ft (15 m) downstream from Harahan Bridge at Memphis, 1.3 mi (2.1 km) downstream from Beale Street gage, 3.5 mi (5.6 km) downstream from Wolf River, 62.4 mi (100.4 km) upstream from St. Francis River, and at mile 734.8 (1,182.3 km).

DRAINAGE AREA.--932,800 mi^2 (2,416,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: January 1933 to September 1977. Monthly discharge only for some periods, published in WSP 1311.
Gage heights: October 1934 to September 1951 and October 1952 to September 1977 in reports of Geological Survey. Since November 1871, at Beale Street gage, in reports of Mississippi River Commission, December 1890 to August 1932 at Beale Street gage, September 1932 to December 1934 at nonrecording gage 1,000 ft (305 m) downstream, and since December 1934 at water-stage recorder at present site, in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 183.91 ft (56.056 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 16, 1934, Beale Street nonrecording gage 1.3 mi (2.1 km) upstream at present datum. Apr. 16 to Dec. 21, 1934, nonrecording gage 1,000 ft (305 m) downstream at present datum.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--44 years, 467,700 ft^3/s (13,200 m^3/s), 338,800,000 acre-ft/yr (418 km^3/yr).

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

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

EXTREMES FOR 1977 WATER YEAR.--Maximum discharge, 893,000 ft^3/s (25,300 m^3/s) Apr. 15, gage height, 24.70 ft (7.529 m); minimum daily, 144,000 ft^3/s (4,080 m^3/s) Feb. 11.

REVISIONS.--Revised figures of discharge and gage height for the water year 1977, superseding those published in the report for 1977 are given herein.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185000	307000	198000	203000	192000	363000	650000	409000	225000	370000	245000	280000
2	191000	320000	203000	201000	185000	421000	669000	412000	209000	342000	249000	262000
3	199000	334000	216000	201000	178000	476000	679000	409000	203000	402000	239000	247000
4	205000	345000	221000	198000	166000	538000	670000	404000	195000	398000	223000	246000
5	195000	351000	221000	196000	159000	575000	651000	402000	191000	372000	208000	249000
6	192000	348000	219000	196000	152000	607000	633000	406000	187000	374000	209000	249000
7	197000	348000	220000	196000	146000	655000	644000	409000	185000	372000	209000	250000
8	199000	345000	214000	195000	149000	690000	686000	405000	184000	358000	196000	266000
9	192000	337000	210000	197000	152000	720000	740000	400000	186000	338000	215000	292000
10	182000	323000	208000	206000	148000	742000	792000	409000	188000	322000	216000	316000
11	178000	305000	218000	211000	144000	757000	835000	440000	185000	310000	217000	333000
12	167000	277000	247000	216000	147000	775000	865000	471000	184000	298000	219000	336000
13	174000	255000	272000	215000	150000	776000	878000	487000	185000	290000	231000	331000
14	190000	235000	299000	214000	149000	775000	886000	490000	186000	289000	287000	322000
15	218000	223000	284000	215000	152000	780000	893000	477000	189000	294000	323000	308000
16	238000	220000	342000	218000	166000	791000	886000	450000	192000	290000	342000	296000
17	280000	209000	344000	220000	184000	794000	869000	416000	217000	284000	358000	290000
18	337000	202000	331000	229000	224000	792000	837000	380000	218000	282000	377000	309000
19	361000	194000	313000	236000	261000	783000	780000	354000	205000	288000	400000	364000
20	359000	191000	301000	238000	301000	768000	695000	332000	190000	284000	418000	425000
21	332000	183000	287000	240000	328000	745000	591000	313000	174000	277000	424000	452000
22	284000	180000	278000	242000	322000	721000	497000	298000	173000	253000	413000	457000
23	247000	178000	263000	242000	306000	607000	432000	288000	180000	237000	392000	454000
24	227000	183000	249000	236000	289000	644000	386000	277000	192000	226000	366000	455000
25	219000	184000	242000	234000	284000	609000	357000	265000	191000	229000	339000	450000
26	220000	172000	234000	234000	285000	584000	356000	250000	202000	244000	308000	442000
27	224000	179000	229000	231000	292000	566000	374000	243000	233000	251000	285000	436000
28	239000	184000	222000	229000	313000	549000	392000	250000	270000	254000	282000	427000
29	266000	190000	214000	223000	---	536000	400000	251000	302000	255000	293000	423000
30	283000	200000	209000	218000	---	565000	403000	249000	338000	257000	295000	419000
31	292000	---	209000	207000	---	617000	---	241000	---	256000	290000	---
TOTAL	7252000	7502000	7697000	6737000	5929000	20321000	19426000	11287000	6159000	9346000	9068000	10386000
MEAN	233900	250100	248300	217300	211800	655500	647500	364100	205300	301500	292500	346200
MAX	361000	351000	344000	242000	328000	794000	893000	490000	338000	402000	424000	457000
MIN	165000	172000	198000	195000	144000	363000	356000	241000	173000	226000	196000	246000
AC-FT	14380000	14880000	15270000	13360000	11760000	40310000	38530000	22390000	12220000	18540000	17990000	20600000

CAL YR 1976 TOTAL 139854000 MEAN 382100 MAX 860000 MIN 138000 AC-FT 277400000
WTR YR 1977 TOTAL 121110000 MEAN 331800 MAX 893000 MIN 144000 AC-FT 240200000

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-3.60	4.00	-2.70	-2.30	-2.70	7.00	18.20	9.90	-.40	7.10	1.00	3.00
2	-1.80	4.70	-2.30	-2.20	-3.30	10.20	19.00	10.10	-1.60	8.50	1.50	2.00
3	-1.20	5.50	-1.30	-2.20	-3.70	12.60	19.50	9.90	-1.80	9.10	.90	1.00
4	-.80	6.10	-.90	-2.20	-4.20	15.10	19.50	9.70	-2.20	9.20	.00	.80
5	-1.50	6.40	-.80	-2.40	-4.90	16.30	19.10	9.50	-2.60	7.60	-1.30	1.10
6	-1.70	6.30	-.80	-2.50	-5.30	17.30	18.40	9.70	-2.80	6.00	-1.30	1.10
7	-1.40	6.30	-.90	-2.50	-5.70	18.30	18.50	9.90	-3.00	7.90	-1.30	1.10
8	-1.20	6.20	-1.50	-2.50	-5.50	19.50	19.50	9.80	-3.10	7.40	-2.60	1.80
9	-1.70	5.80	-1.90	-2.50	-5.20	20.30	20.90	9.40	-3.00	6.40	-1.10	3.30
10	-2.40	5.10	-2.20	-2.00	-5.30	20.80	22.20	9.70	-2.90	5.50	-1.00	4.80
11	-2.70	4.10	-1.70	-1.80	-5.50	21.20	23.30	11.10	-2.90	4.80	-1.00	5.90
12	-3.50	2.60	.00	-1.30	-5.40	21.60	24.00	12.60	-3.10	4.20	-.90	6.30
13	-3.00	1.40	1.30	-1.30	-5.00	21.70	24.40	13.50	-3.10	3.70	-.60	6.00
14	-1.90	.30	2.90	-1.40	-5.00	21.60	24.40	13.80	-3.00	3.50	2.60	5.60
15	-.10	-.40	4.30	-1.40	-4.80	21.70	24.70	13.40	-2.80	3.80	4.90	4.90
16	1.10	-.70	5.40	-1.20	-4.00	22.10	24.60	12.40	-2.40	3.70	5.90	4.10
17	3.50	-1.10	5.60	-1.10	-2.80	22.40	24.20	10.90	-1.20	3.30	6.80	3.60
18	6.10	-1.50	5.00	-1.00	-.80	22.50	23.50	9.30	-.90	3.20	7.80	4.30
19	7.80	-1.90	4.10	-.10	1.40	22.40	22.30	7.70	-1.60	3.50	9.00	6.90
20	7.60	-2.00	3.50	-.10	3.80	22.10	20.20	6.30	-2.50	3.00	10.10	10.10
21	6.10	-2.50	2.80	.10	5.40	21.70	17.40	5.00	-3.50	3.20	10.60	11.60
22	3.40	-2.60	2.30	.20	5.50	21.10	14.20	3.90	-3.90	2.00	10.30	11.80
23	1.20	-2.60	1.50	.20	4.70	22.10	11.30	3.00	-3.50	.70	9.50	11.80
24	-.10	-2.50	.70	-.10	3.60	18.90	9.10	2.40	-2.80	.30	8.30	11.60
25	-.70	-2.60	.30	-.30	3.20	17.70	7.50	1.80	-2.70	.50	7.10	11.50
26	-.70	-3.60	-.20	-.30	3.10	16.80	7.20	1.00	-2.50	1.30	5.60	11.10
27	-.50	-3.30	-.50	-.40	3.40	16.10	8.00	.20	-1.00	1.80	4.00	10.80
28	.30	-3.10	-.90	-.50	4.20	15.60	9.00	.80	1.40	1.90	3.30	10.30
29	1.90	-2.90	-1.40	-.90	---	14.80	9.40	.90	3.30	1.90	3.80	10.00
30	2.80	-2.40	-1.70	-1.40	---	15.40	9.60	.80	5.30	2.00	3.80	9.80
31	3.20	---	-1.40	-2.00	---	17.00	---	.50	---	2.00	3.40	---

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

WATER-QUALITY RECORDS

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

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 571 micromhos July 30, 1977; minimum, 239 micromhos Mar. 15, 1975.
WATER TEMPERATURES: Maximum, 31.5°C July 24, 1977; minimum, 0.5°C Jan. 23, 27, Feb. 3, 4, 8, 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 446 micromhos Sept. 6, 12; minimum, 240 micromhos Jan. 30.
WATER TEMPERATURES: Maximum, 29.0°C July 30, 31, Aug. 1, 2; minimum, 0.5°C Jan. 23, 27, Feb. 3, 4, 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
OCT												
04...	1028	1028	353	7.6	20.0	--	7.8	88	2000	400	150	51
NOV												
02...	1028	1028	371	7.2	15.0	--	8.3	85	870	1200	160	48
30...	1028	1028	300	7.6	7.0	--	10.9	93	2800	K12000	130	35
DEC												
29...	1028	1028	382	7.8	2.0	--	12.6	94	730	1600	150	--
FEB												
23...	1028	1028	370	7.6	1.0	--	--	--	K67	160	150	43
APR												
20...	1028	1028	357	7.3	14.0	--	--	--	800	1800	150	48
MAY												
24...	1028	1028	335	7.6	18.0	110	7.3	80	1600	440	140	54
JUN												
28...	1028	1028	395	7.9	26.5	34	6.9	87	K1700	K27	180	57
AUG												
17...	1028	1028	420	7.3	28.0	55	7.2	93	K1000	K340	160	53
SEP												
07...	1028	1028	430	8.0	26.5	--	7.3	92	K2500	1200	170	61
20...	1028	1028	440	8.2	27.0	22	6.8	86	K6600	520	180	55

DATE	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT											
04...	40	12	16	18	.6	3.9	120	0	98	4.8	54
NOV											
02...	42	14	17	18	.6	3.5	140	0	110	14	54
30...	34	9.9	12	17	.5	3.1	110	0	90	4.4	41
DEC											
29...	42	12	14	16	.5	3.1	--	0	--	--	51
FEB											
23...	40	12	15	18	.5	2.4	130	0	110	5.2	48
APR											
20...	42	12	12	14	.4	4.0	130	0	110	10	44
MAY											
24...	39	11	8.0	11	.3	2.9	--	--	89	--	43
JUN											
28...	46	15	20	19	.7	3.8	--	--	120	--	69
AUG											
17...	44	13	20	21	.7	3.7	--	--	110	--	67
SEP											
07...	47	13	26	24	.9	3.4	--	--	110	--	81
20...	47	14	22	21	.7	3.2	--	--	120	--	71

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT												
04...	20	.2	6.9	222	212	.30	1.5	.06	--	--	--	.36
NOV												
02...	15	.2	7.8	228	223	.31	1.4	.01	--	--	--	1.2
30...	14	.2	7.3	180	176	.24	1.4	.01	--	--	--	.42
DEC												
29...	22	.3	7.7	238	--	.32	2.1	.18	--	--	--	.82
FEB												
23...	17	.1	8.3	215	207	.29	1.4	.31	.32	.63	.38	.25
APR												
20...	16	.2	6.8	208	201	.28	2.5	.14	1.6	1.7	.88	.82
MAY												
24...	13	.2	38	198	209	.27	--	--	--	--	--	--
JUN												
28...	21	.2	4.5	251	252	.34	1.3	.04	1.1	1.1	.28	.82
AUG												
17...	16	.2	6.8	243	237	.33	1.3	.02	.88	.90	.27	.63
SEP												
07...	22	.3	2.4	258	265	.35	.63	.02	.88	.90	.39	.51
20...	22	.2	4.5	256	256	.35	.57	.04	.72	.76	.25	.51

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)
OCT												
04...	--	--	.25	.17	4	3	1	400	300	100	<10	<10
NOV												
02...	--	--	.41	.10	--	--	--	--	--	--	--	--
30...	--	--	.24	.23	--	--	--	--	--	--	--	--
DEC												
29...	--	--	.24	.06	--	--	--	--	--	--	--	--
FEB												
23...	2.0	9.0	.14	.05	2	0	2	100	0	100	1	0
APR												
20...	4.2	19	.50	.07	4	1	3	300	0	300	2	0
MAY												
24...	--	--	.25	.05	--	--	--	--	--	--	--	--
JUN												
28...	2.4	11	.17	.07	--	--	--	--	--	--	--	--
AUG												
17...	2.2	9.7	.18	.07	--	--	--	--	--	--	--	--
SEP												
07...	1.5	6.8	.18	.07	--	--	--	--	--	--	--	--
20...	1.3	5.9	.14	.06	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)
OCT												
04...	0	10	10	0	50	<49	1	40	34	6	3100	20
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	1	20	20	0	0	0	0	19	16	3	2000	20
APR												
20...	2	20	20	0	5	5	0	100	90	10	15000	40
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)
OCT											
04...	<100	<100	0	200	200	0	.0	.0	.0	0	0
NOV											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
29...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	6	6	0	80	70	10	.0	.0	.0	0	0
APR											
20...	21	20	1	600	590	10	.0	.0	.0	1	1
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG) (01076)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	PCB, TOTAL (UG/L) (39516)
OCT											
04...	0	<10	<10	0	40	30	10	--	5.2	1.8	--
NOV											
02...	--	--	--	--	--	--	--	8.9	--	--	ND
30...	--	--	--	--	--	--	--	5.8	--	--	--
DEC											
29...	--	--	--	--	--	--	--	6.0	--	--	--
FEB											
23...	0	1	1	0	30	20	10	--	4.1	.9	--
APR											
20...	0	0	0	0	80	60	20	--	5.3	8.5	--
MAY											
24...	--	--	--	--	--	--	--	8.2	--	--	ND
JUN											
28...	--	--	--	--	--	--	--	6.3	--	--	--
AUG											
17...	--	--	--	--	--	--	--	6.7	--	--	ND
SEP											
07...	--	--	--	--	--	--	--	6.9	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	AROCLOR TOT. IN BOT MAT 1254 PCB SERIES (UG/KG) (39507)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	ATRAZINE, TOTAL (UG/L) (39630)	CHLORDANE, TOTAL (UG/L) (39350)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	0	ND	ND	.96	ND	ND	ND	ND	ND	ND	ND	ND
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	ND	--	1.4	ND	--	ND	--	ND	--	ND	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL (UG/L) (39540)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
29...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL COULSON COND. (UG/L) (39025)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
04...	--	--	--	--	--	--	--	--	--	147	98
NOV											
02...	--	ND	ND	--	ND	--	ND	ND	ND	348	96
30...	--	--	--	--	--	--	--	--	--	163	93
DEC											
29...	--	--	--	--	--	--	--	--	--	191	77
FEB											
23...	--	--	--	--	--	--	--	--	--	84	84
APR											
20...	--	--	--	--	--	--	--	--	--	444	95
MAY											
24...	ND	ND	ND	ND	ND	ND	--	--	--	273	84
JUN											
28...	--	--	--	--	--	--	--	--	--	112	86
AUG											
17...	--	ND	ND	--	ND	--	--	--	--	135	81
SEP											
07...	--	--	--	--	--	--	--	--	--	104	83
20...	--	--	--	--	--	--	--	--	--	70	81

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

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

PHYTOPLANKTON

DATE TIME	NOV 2,77 0830		MAY 24,78 0900		JUN 28,78 0945		AUG 17,78 0900		SEP 20,78 0910	
TOTAL CELLS/ML	6200		2400		1200		14000		23000	
DIVERSITY: DIVISION	1.4		1.6		0.5		1.6		1.5	
.CLASS	1.4		1.6		0.5		1.6		1.5	
..ORDER	1.6		1.9		1.4		2.3		2.0	
...FAMILY	2.1		2.5		1.5		2.6		2.5	
....GENUS	2.4		2.8		1.5		3.5		3.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	150	12	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	360	6	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	73	1	37	2	--	-	94	1	*	0
....CHODATELLA	--	-	--	-	--	-	*	0	--	-
....DICTYOSPHAERIUM	290	5	--	-	--	-	330	2	3700#	16
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	220	1
....OOCYSTIS	--	-	--	-	--	-	--	-	480	2
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	170	1
....CRUCIGENIA	--	-	--	-	--	-	370	3	960	4
....SCENEDESMUS	440	7	820#	34	--	-	940	7	1000	5
....TETRASTRUM	--	-	--	-	--	-	510	4	--	-
..ULOTRICHALES										
...MICROSPORACEAE										
....MICROSPORA	290	5	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	94	1	--	-
....CHLAMYDOMONAS	--	-	37	2	--	-	94	1	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	*	0	--	-
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	--	-	--	-	--	-	470	3	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	290	5	--	-	--	-	1200	9	1800	8
....MELOSIRA	3100#	51	190	8	540#	46	980	7	2600	11
....SKELETONEMA	--	-	--	-	--	-	1400	11	--	-
....STEPHANODISCUS	*	0	110	5	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	37	2	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	37	2	480#	41	--	-	--	-
....FRAGILARIA	--	-	190	8	--	-	--	-	--	-
....SYNEDRA	--	-	74	3	--	-	--	-	*	0
...NAVICULACEAE										
....NAVICULA	--	-	--	-	15	1	--	-	130	1
...NITZSCHIACEAE										
....NITZSCHIA	--	-	37	2	--	-	330	2	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	2600#	19	3100	14
....ANACYSTIS	--	-	--	-	--	-	650	5	2900	13
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	580	9	480#	20	--	-	--	-	1000	5
....APHANIZOMENON	--	-	--	-	--	-	--	-	430	2
....CYLINDROSPERMUM	--	-	--	-	--	-	--	-	260	1
...OSCILLATORIACEAE										
....OSCILLATORIA	730	12	370#	15	--	-	2800#	21	3900#	17
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	420	3	--	-

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

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

PHYTOPLANKTON

DATE	NOV 2,77		MAY 24,78		JUN 28,78		AUG 17,78		SEP 20,78	
TIME	0830		0900		0945		0900		0910	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	140	1	--	-

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

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	344	322	387	292	376	299	387	387	406	436	433
2	382	348	326	387	310	375	297	415	417	406	433	429
3	383	349	299	387	306	376	297	412	417	410	429	427
4	383	353	298	---	311	377	304	414	417	389	428	430
5	396	388	299	---	356	377	302	400	416	387	429	428
6	396	385	298	---	359	376	309	403	---	388	428	446
7	395	387	298	---	359	376	355	403	416	389	428	441
8	394	387	298	271	359	396	357	398	422	391	429	441
9	396	318	298	271	359	394	359	392	402	391	421	441
10	396	317	299	270	359	354	357	390	402	392	422	442
11	394	319	298	273	360	357	358	388	400	390	420	444
12	393	343	299	271	361	354	357	336	403	403	420	446
13	394	381	299	---	361	355	357	335	400	404	423	439
14	394	382	293	273	361	356	393	330	401	406	420	440
15	379	382	292	271	361	358	392	339	400	404	423	438
16	380	382	293	271	357	342	391	349	399	406	428	440
17	379	384	318	271	372	342	394	---	438	404	423	439
18	383	384	320	270	361	333	394	349	437	405	421	440
19	400	362	363	271	360	336	393	348	439	410	423	400
20	401	362	357	273	363	337	394	351	437	404	423	401
21	405	362	364	273	366	296	390	349	441	406	424	399
22	404	363	360	275	367	296	389	351	412	406	418	399
23	408	369	360	275	366	297	393	348	416	406	422	401
24	412	329	359	270	370	297	392	349	412	406	418	401
25	406	329	362	268	371	289	388	349	411	404	429	400
26	411	329	359	271	377	288	344	402	---	403	427	400
27	415	330	365	270	372	298	390	404	411	404	429	398
28	413	329	363	269	376	297	388	403	411	436	428	400
29	413	332	384	273	---	298	387	403	414	435	429	401
30	434	328	386	240	---	301	391	407	413	434	427	401
31	434	---	388	242	---	302	---	420	---	434	428	---
MEAN	399	357	330	282	355	339	364	377	414	405	425	423

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

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

07040000 ST. FRANCIS RIVER AT FISK, MO

LOCATION.--Lat 36°46'50", long 90°12'08", in NW¼SW¼ 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 September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 19...	1028	1028	303	234	8.5	15.5	.55	8.2	41	34
NOV 15...	1028	1028	925	240	7.6	11.5	.61	10.7	71	177
DEC 14...	1028	1028	2860	155	7.2	3.0	.61	14.8	186	1440
FEB 27...	1028	1028	654	330	7.1	4.0	.38	12.7	36	64
MAR 22...	1028	1028	5600	119	7.1	9.0	--	11.2	114	1720
APR 18...	1028	1028	1250	164	7.3	16.5	.55	9.7	178	601
MAY 17...	1028	1028	352	202	7.7	19.0	--	8.2	246	234
JUN 22...	1028	1028	38	266	6.4	24.0	.46	6.1	76	7.8
JUL 26...	1028	1028	433	206	7.9	27.0	.55	6.3	105	123
AUG 31...	1028	1028	475	151	7.6	19.5	.34	6.9	292	374
SEP 20...	1028	1028	195	228	7.6	26.0	.79	6.4	133	70

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)
OCT 19...	--	100	93	86	78	--	--	--	--	--
NOV 15...	100	100	94	66	56	--	--	--	--	--
DEC 14...	--	--	--	--	--	--	100	52	26	21
FEB 27...	--	100	85	64	57	--	--	--	--	--
MAR 22...	100	99	61	39	32	--	--	--	--	--
APR 18...	--	--	--	--	--	100	99	44	24	21
MAY 17...	--	--	--	--	--	--	100	97	52	37
JUN 22...	100	99	91	62	56	--	--	--	--	--
JUL 26...	100	99	90	72	63	--	--	--	--	--
AUG 31...	100	99	91	77	70	--	--	--	--	--
SEP 20...	100	99	90	71	57	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT										
19...	--	--	--	--	--	100	99	75	25	16
NOV										
15...	--	--	--	--	--	100	98	77	44	33
DEC										
14...	--	--	--	--	--	100	96	54	12	8
FEB										
27...	100	96	95	95	94	--	90	44	4	3
MAR										
22...	--	--	--	--	--	100	99	94	37	6
APR										
18...	--	--	--	--	--	100	96	49	8	5
MAY										
17...	--	--	--	--	--	98	95	78	17	8
JUN										
22...	--	--	--	--	--	100	95	53	25	15
JUL										
26...	--	--	--	--	--	100	97	61	13	11
AUG										
31...	--	--	--	--	--	100	98	87	58	44
SEP										
20...	--	--	--	--	--	99	96	70	39	24

07040057 ST. FRANCIS RIVER NEAR POWE, MO

LOCATION.--Lat 36°39'38", long 90°08'32", in SW¼SE¼ sec.1, T.23 N., R.9 E., Butler County, Hydrologic Unit 08020203, at bridge on county road 2.3 mi (3.70 km) west of Powe, Mo.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT											
19...	1028	1028	331	16.5	.55	95	85	100	98	94	80
NOV											
16...	1028	1028	747	12.0	.40	68	137	--	100	97	68
DEC											
14...	1028	1028	6620	4.0	.34	1150	20600	--	--	--	--
FEB											
28...	1028	1028	1040	2.5	.30	482	1350	--	--	--	--
MAR											
22...	1028	1028	6020	10.5	--	--	--	--	--	--	--
APR											
19...	1028	1028	1370	14.5	--	113	418	100	100	87	67
MAY											
18...	1028	1028	463	18.0	--	160	200	--	100	71	36
JUN											
22...	1028	1028	110	26.5	.30	190	56	100	100	81	70
JUL											
26...	1028	1028	523	29.0	.59	224	316	--	--	--	--
AUG											
30...	1028	1028	5460	15.5	--	3660	54000	--	--	--	--
SEP											
20...	1028	1028	213	29.0	.70	69	40	--	100	79	50

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT											
19...	66	--	--	--	--	--	100	97	58	1	1
NOV											
16...	57	--	--	--	--	--	100	99	74	5	2
DEC											
14...	--	100	100	98	77	70	100	99	73	1	1
FEB											
28...	--	--	100	56	19	17	100	99	66	1	1
MAR											
22...	--	--	--	--	--	--	100	98	76	1	1
APR											
19...	61	--	--	--	--	--	99	89	44	2	2
MAY											
18...	29	--	--	--	--	--	97	95	56	1	1
JUN											
22...	68	--	--	--	--	--	100	96	61	4	3
JUL											
26...	--	--	100	89	49	47	100	95	74	37	20
AUG											
30...	--	100	100	99	94	88	100	99	80	26	25
SEP											
20...	43	--	--	--	--	--	100	98	55	4	3

07040060 ST. FRANCIS RIVER NEAR GLENNONVILLE, MO

LOCATION.--Lat 36°34'22", long 90°11'06", in NE¼NW¼ 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 (2.74 km) southwest of Glennonville, Mo.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT											
20...	1028	1028	360	12.5	.79	671	652	--	--	--	--
NOV											
15...	1028	1028	1400	12.0	.40	126	476	100	100	98	74
DEC											
14...	1028	1028	7350	5.0	.43	1150	22800	--	--	--	--
FEB											
28...	1028	1028	1150	2.5	.33	1040	3230	--	40	--	--
MAR											
21...	1028	1028	6980	10.0	--	533	10000	--	--	--	--
APR											
18...	1028	1028	1870	18.5	.49	1340	6770	--	--	--	--
MAY											
18...	1028	1028	486	19.5	--	71	93	--	100	87	67
JUN											
21...	1028	1028	191	28.0	.18	448	231	100	100	99	97
JUL											
26...	1028	1028	559	32.0	--	108	163	100	100	90	56
AUG											
30...	1028	1028	5830	16.0	--	2870	45200	--	--	--	--
SEP											
21...	1028	1028	248	26.0	--	80	54	--	100	84	59

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT											
20...	--	100	99	70	9	8	100	99	64	2	1
NOV											
15...	63	--	--	--	--	--	100	97	46	7	6
DEC											
14...	--	--	100	98	84	75	100	99	64	4	1
FEB											
28...	--	100	92	--	10	9	100	99	59	1	1
MAR											
21...	--	100	95	91	62	50	97	85	25	1	1
APR											
18...	--	100	95	45	20	15	100	96	77	3	1
MAY											
18...	62	--	--	--	--	--	100	98	78	6	2
JUN											
21...	97	--	--	--	--	--	100	98	70	10	7
JUL											
26...	49	--	--	--	--	--	100	99	76	1	0
AUG											
30...	--	100	100	97	76	71	--	100	92	3	1
SEP											
21...	56	--	--	--	--	--	100	99	78	6	3

07040070 WILHELMINA CUTOFF NEAR CAMPBELL, MO

LOCATION.--Lat 36°30'53", long 90°09'30", in SW¼SW¼ sec.25, T.22 N., R.8 E., Dunklin County, Hydrologic Unit 08020203, at bridge on county road 4.7 mi (7.56 km) northwest of Campbell, Mo., off Missouri State Highway 53.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT											
05...	1028	1028	1130	20.0	.91	202	616	--	100	90	76
NOV											
15...	1028	1028	1470	11.0	.30	108	429	--	100	99	91
DEC											
13...	1028	1028	4070	3.0	.24	767	8430	--	--	--	--
JAN											
25...	1028	1028	464	2.0	.30	274	343	--	--	--	--
FEB											
28...	1028	1028	1220	3.0	.41	234	771	100	95	73	58
MAR											
21...	1028	1028	6310	10.0	--	703	12800	--	--	--	--
APR											
18...	1028	1028	2040	17.5	.40	1860	10200	--	--	--	--
MAY											
17...	1028	1028	580	--	--	617	966	--	--	--	--
JUN											
21...	1028	1028	226	26.5	.25	319	195	100	100	87	67
JUL											
26...	1028	1028	517	32.0	--	184	257	--	--	--	--
AUG											
29...	1028	1028	140	20.0	--	1000	378	--	--	--	--
SEP											
20...	1028	1028	245	30.5	.55	101	67	--	100	86	45

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT											
05...	66	--	--	--	--	--	--	100	82	6	2
NOV											
15...	79	--	--	--	--	--	--	100	86	3	2
DEC											
13...	--	--	100	99	75	67	--	100	85	3	1
JAN											
25...	--	100	100	97	71	50	100	97	81	6	2
FEB											
28...	52	--	--	--	--	--	100	99	75	2	1
MAR											
21...	--	100	97	67	53	37	99	93	66	20	5
APR											
18...	--	--	100	98	59	34	100	98	88	11	1
MAY											
17...	--	--	--	100	58	29	--	100	96	12	5
JUN											
21...	66	--	--	--	--	--	99	96	92	7	4
JUL											
26...	--	--	100	98	57	49	100	98	92	19	12
AUG											
29...	--	100	100	96	61	49	100	100	92	29	26
SEP											
20...	34	--	--	--	--	--	99	98	82	6	2

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, AR

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

DRAINAGE AREA.--1,772 mi² (4,589 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1930 to December 1946 in files of Corps of Engineers, Memphis district. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 270.57 ft (82.470 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 1, 1946, nonrecording gage.

REMARKS.--Some regulation by Wappapello Lake (Missouri), 80 mi (129 km) upstream, since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm³).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--47 years, 2,122 ft³/s (60.1 m³/s), 1,537,000 acre-ft/yr (1,900 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s (1,110 m³/s) Mar. 15, 1935, gage height, 28.2 ft (8.60 m); minimum, 55 ft³/s (1.56 m³/s) Sept. 20, 1954.
Maximum stage since at least 1916, that of Mar. 15, 1935.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 17,400 ft³/s (493 m³/s) Mar. 29, gage height, 23.48 ft (7.157 m); minimum, 90 ft³/s (2.55 m³/s) Nov. 23, gage height, 2.61 ft (0.796 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	160	443	1090	271	905	10200	4860	524	1550	205	935
2	316	293	339	1080	277	1060	10200	4760	458	2200	182	715
3	332	286	262	1060	265	1530	9680	4650	437	1150	171	451
4	298	183	235	1050	259	4180	8370	4580	376	856	164	289
5	243	125	226	374	403	3020	7100	4500	291	637	156	221
6	237	111	226	273	402	1960	6440	4420	233	517	144	275
7	231	105	237	235	342	1810	5980	4360	199	476	133	490
8	278	110	264	223	311	1770	5640	4300	176	457	125	333
9	343	143	320	221	290	1700	5470	4110	166	620	120	361
10	319	234	383	223	296	1400	5360	3250	164	1560	117	364
11	273	246	388	225	360	1180	5270	2080	163	1620	113	405
12	257	251	372	226	364	3350	5200	1340	159	723	111	599
13	253	247	359	227	374	4430	5170	967	157	505	111	835
14	214	250	348	229	443	3040	5160	795	159	383	190	1320
15	156	250	329	226	444	3360	5140	711	157	346	236	1370
16	129	247	287	232	385	4000	5120	661	505	331	387	1440
17	120	230	663	234	364	4320	5100	627	232	319	1340	1030
18	118	169	1020	236	361	4550	5070	610	170	309	1040	837
19	117	120	1110	237	359	4710	5060	590	146	282	594	913
20	121	107	1140	240	356	4680	5070	585	151	225	605	973
21	124	101	1120	243	353	4600	5050	555	156	206	628	796
22	188	99	1120	245	351	4510	5060	546	189	196	622	742
23	230	96	1140	247	407	4390	5340	1120	369	187	490	732
24	281	101	1170	248	765	4240	5430	2970	946	178	349	1030
25	256	157	1220	247	509	4080	5260	2810	2080	257	272	3030
26	256	206	1220	248	494	3900	5080	1240	1830	360	232	5950
27	329	213	1210	254	636	3880	4970	631	1200	308	223	5050
28	310	279	1210	261	791	10400	4890	473	1680	284	223	4720
29	249	443	1190	264	---	16800	4960	506	1330	270	464	2780
30	226	495	1190	266	---	14000	4940	497	913	266	843	1720
31	174	---	1190	268	---	11500	---	578	---	247	853	---
TOTAL	7209	6107	21933	10952	11239	139255	176780	64682	15716	17825	11443	40706
MEAN	233	204	708	353	401	4492	5893	2087	524	575	369	1357
MAX	343	495	1220	1090	791	16800	10200	4860	2080	2200	1340	5950
MIN	117	96	226	221	259	905	4890	473	146	178	111	221
AC-FT	14300	12110	43500	21720	22290	276200	350600	128300	31170	35360	22700	80740

CAL YR 1976 TOTAL 495202 MEAN 1353 MAX 7570 MIN 96 AC-FT 982200
WTR YR 1977 TOTAL 523847 MEAN 1435 MAX 16800 MIN 96 AC-FT 1039000

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

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)
OCT												
03...	9827	9827	--	175	7.9	19.0	45	75	13	9.0	3.3	3.5
06...	1028	1028	1260	240	7.9	18.5	--	--	--	--	--	--
31...	9827	9827	--	250	7.7	18.0	5	--	--	--	--	--
NOV												
15...	1028	1028	1780	233	7.4	10.0	--	--	--	--	--	--
28...	9827	9827	--	246	--	5.0	20	--	--	--	--	--
DEC												
13...	1028	1028	3410	162	7.2	3.0	--	--	--	--	--	--
JAN												
03...	9827	9827	--	146	7.6	2.0	35	51	8.0	7.0	2.7	1.7
25...	1028	1028	549	230	6.2	2.0	--	--	--	--	--	--
FEB												
24...	1028	1028	1130	333	7.0	2.0	--	--	--	--	--	--
MAR												
07...	9827	9827	--	164	7.5	6.0	40	--	--	--	--	--
21...	9827	9827	--	118	7.2	11.0	40	--	--	--	--	--
21...	1028	1028	6540	117	6.8	9.5	--	--	--	--	--	--
APR												
04...	9827	9827	--	--	7.4	17.0	30	41	5.0	5.9	2.5	1.9
18...	1028	1028	2200	163	7.2	16.0	--	--	--	--	--	--
24...	9827	9827	--	188	--	19.0	40	72	12	9.4	4.9	1.7
MAY												
17...	1028	1028	612	204	7.9	18.0	--	--	--	--	--	--
22...	9827	9827	--	261	7.8	24.0	15	--	--	--	--	--
JUN												
12...	9827	9827	--	--	--	--	--	--	--	--	--	--
19...	9827	9827	--	304	7.8	25.0	10	--	--	--	--	--
21...	1028	1028	251	197	5.9	25.0	--	--	--	--	--	--
JUL												
18...	9827	9827	--	128	--	--	100	74	14	7.0	4.8	3.7
26...	1028	1028	527	250	8.3	30.0	--	--	--	--	--	--
AUG												
29...	9827	9827	--	277	7.9	27.0	10	--	--	--	--	--
30...	1028	--	3710	139	7.4	16.0	--	--	--	--	--	--
SEP												
18...	9827	9827	--	285	7.9	27.0	5	--	--	--	--	--
20...	1028	1028	267	188	7.7	30.0	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)
OCT												
03...	<5	20	--	<10	310	--	<10	.00	.00	.00	.00	.00
06...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	10	1300	--	290	--	10	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	30	2300	--	210	--	20	--	--	--	--	--
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
03...	<5	<20	1300	<10	100	--	<10	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	--	30	11100	--	590	--	70	.00	.00	.00	.00	.00
21...	--	<20	3600	--	180	--	20	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	<5	<20	2200	10	210	--	10	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	<20	2400	<10	230	--	<10	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	<20	3800	--	420	--	30	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	.00	.00	.00	.00	.00
19...	--	<20	2500	--	630	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	<5	<20	5900	<10	--	<1.0	<10	.00	.00	.00	.00	.00
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
29...	--	<20	3400	--	700	--	<10	.00	.00	.00	.00	.00
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
18...	--	<20	2000	--	520	--	20	.00	.00	.00	.00	.00
20...	--	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT												
03...	70	3.0	6.0	121	90	.15	<.05	.16	.10	.18	<5	<10
06...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	9.0	--	--	<.05	<.05	<.05	<.05	.11	--	<10
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	6.0	7.5	155	38	.13	<.05	.14	<.05	.11	--	<10
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
03...	53	9.0	6.0	103	42	.42	<.05	.43	.06	.14	<5	<10
25...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	--	9.0	7.0	160	656	.41	.04	.45	.15	.36	--	<10
21...	--	11	4.5	101	141	.48	.01	.49	.14	.06	--	<10
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	47	13	6.5	90	98	.32	.01	.33	.07	--	<5	<10
18...	--	--	--	--	--	--	--	--	--	--	--	--
24...	84	9.0	7.0	118	66	.00	.01	.01	.05	.16	<5	<10
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	12	161	132	--	<.01	<.01	.03	--	--	10
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	<1.0	9.5	180	80	--	<.01	.02	.01	.15	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	44	4.0	--	120	174	.32	.04	.36	.12	.23	<5	<10
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
29...	--	4.0	16	162	109	--	--	--	--	.27	--	<10
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
18...	--	7.0	9.5	152	--	.01	<.01	.01	.03	.11	--	<10
20...	--	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
03...	.00	.00	0	--	--	--	--	--	--	--
06...	--	--	--	202	687	100	98	94	90	84
NOV										
15...	--	--	--	104	500	--	100	100	96	86
DEC										
13...	--	--	--	562	5170	--	--	--	--	--
JAN										
25...	--	--	--	504	747	--	--	--	--	--
FEB										
24...	--	--	--	136	415	100	93	72	58	48
MAR										
07...	.00	.00	0	--	--	--	--	--	--	--
21...	--	--	--	514	9080	--	--	--	--	--
APR										
18...	--	--	--	1390	8260	--	--	--	--	--
MAY										
17...	--	--	--	204	337	--	100	94	78	66
JUN										
12...	.00	.00	0	--	--	--	--	--	--	--
21...	--	--	--	167	113	100	100	98	90	89
JUL										
18...	.00	.00	0	--	--	--	--	--	--	--
26...	--	--	--	581	827	--	--	--	--	--
AUG										
29...	.00	.00	0	--	--	--	--	--	--	--
30...	--	--	--	2960	29700	--	--	--	--	--
SEP										
18...	.00	.00	0	--	--	--	--	--	--	--
20...	--	--	--	222	160	--	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	100	100	95	48	33
NOV										
15...	--	--	--	--	--	100	100	92	6	1
DEC										
13...	100	100	99	77	42	100	99	91	24	11
JAN										
25...	100	100	96	76	54	100	99	84	20	6
FEB										
24...	--	--	--	--	--	--	100	97	9	2
MAR										
07...	--	--	--	--	--	--	--	--	--	--
21...	--	100	95	47	38	100	98	88	11	2
APR										
18...	--	100	86	35	22	100	98	85	7	2
MAY										
17...	--	--	--	--	--	100	97	85	12	8
JUN										
12...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	100	98	90	26	21
JUL										
18...	--	--	--	--	--	--	--	--	--	--
26...	--	100	98	57	53	100	98	85	10	4
AUG										
29...	--	--	--	--	--	--	--	--	--	--
30...	100	100	96	73	67	100	99	94	36	28
SEP										
18...	--	--	--	--	--	--	--	--	--	--
20...	--	100	77	48	44	98	97	83	7	2

ST. FRANCIS RIVER BASIN

07040110 ST. FRANCIS RIVER NEAR PIGGOTT, AR

LOCATION.--Lat 36°23'50", long 90°04'40", in SE¼SW¼ sec.3, T.20 N., R.9 E., Clay County, Hydrologic Unit 08020203, at bridge on State Highway 1, 6.0 mi (9.65 km) east of Piggott.

DRAINAGE AREA.--1,776 mi² (4,600 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)
OCT										
05...	1028	1028	67	1060	20.5	.30	277	793	--	--
NOV										
14...	1028	1028	67	2170	11.0	.36	126	738	--	100
14...	1028	1028	68	148	11.0	.40	132	53	--	--
DEC										
13...	1028	1028	68	236	3.0	.40	261	166	--	100
13...	1028	1028	67	2880	3.0	.46	200	1560	--	100
JAN										
25...	1028	1028	67	548	2.0	.46	106	157	--	100
FEB										
24...	1028	1028	67	1110	3.0	.30	113	339	--	100
MAR										
21...	1028	1028	67	4200	9.0	--	297	3370	--	--
21...	1028	1028	68	2140	9.5	--	274	1580	--	--
APR										
17...	1028	1028	67	1970	18.0	.40	551	2930	--	--
17...	1028	1028	68	131	16.5	.41	9620	3400	--	--
MAY										
17...	1028	1028	67	668	18.5	--	186	335	--	100
JUN										
21...	1028	1028	67	189	25.0	.30	140	71	--	100
JUL										
25...	1028	1028	67	510	29.0	.24	366	504	--	--
AUG										
29...	1028	1028	67	174	22.0	.43	194	91	--	--
SEP										
20...	1028	1028	67	263	28.5	.30	140	99	100	100

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT										
05...	100	90	68	61	--	--	--	--	--	--
NOV										
14...	99	94	88	80	--	--	--	--	--	--
14...	100	97	95	94	--	--	--	--	--	--
DEC										
13...	99	96	93	82	--	--	--	--	--	--
13...	99	97	89	79	--	--	--	--	--	--
JAN										
25...	89	62	50	44	--	--	--	--	--	--
FEB										
24...	98	85	64	56	98	82	22	1	1	--
MAR										
21...	--	--	--	--	--	100	85	72	61	--
21...	--	--	--	--	100	95	76	62	52	100
APR										
17...	--	--	--	--	100	96	73	46	38	--
17...	--	--	--	--	--	100	99	89	61	--
MAY										
17...	99	82	55	50	--	--	--	--	--	--
JUN										
21...	98	96	90	87	--	--	--	--	--	--
JUL										
25...	--	--	--	--	100	100	84	56	49	--
AUG										
29...	--	--	--	--	--	100	91	47	45	--
SEP										
20...	99	83	52	46	--	--	--	--	--	--

07040110 ST. FRANCIS RIVER NEAR PIGGOTT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT									
05...	--	--	--	--	100	94	40	2	0
NOV									
14...	--	--	--	--	100	95	43	2	1
14...	--	--	--	--	--	100	98	76	61
DEC									
13...	--	--	--	--	100	100	99	97	94
13...	--	--	--	--	99	90	36	1	0
JAN									
25...	--	--	--	--	99	86	25	4	1
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
21...	--	--	--	--	97	74	44	15	7
21...	94	88	85	82	--	75	56	24	10
APR									
17...	--	--	--	--	97	88	59	11	1
17...	--	--	--	--	100	98	96	67	6
MAY									
17...	--	--	--	--	100	90	53	8	2
JUN									
21...	--	--	--	--	96	80	38	2	1
JUL									
25...	--	--	--	--	96	92	52	6	1
AUG									
29...	--	--	--	--	99	87	42	3	1
SEP									
20...	--	--	--	--	99	87	36	2	1

07040130 ST. FRANCIS RIVER AT HOLLY ISLAND, AR

LOCATION.--Lat 36°14'11", long 90°07'52", in SW¼NE¼ 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 (4,631 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)
OCT										
19...	1028	1028	441	14.0	.30	62	74	--	100	97
NOV										
14...	1028	1028	2530	12.0	.49	146	997	--	--	100
DEC										
12...	1028	1028	2820	3.0	.46	319	2430	--	--	--
JAN										
24...	1028	1028	567	1.5	.34	265	406	--	--	--
FEB										
24...	1028	1028	1150	3.0	.30	172	534	100	98	58
MAR										
20...	1028	1028	4880	10.0	--	936	12300	--	--	--
20...	1028	1028	2090	10.0	--	97	547	100	97	82
APR										
17...	1028	1028	2110	18.0	.60	245	1400	--	--	--
MAY										
16...	1028	1028	820	18.0	.24	424	939	100	100	98
JUN										
20...	1028	1028	179	26.0	.15	114	55	100	93	88
JUL										
25...	1028	1028	508	30.0	.70	85	117	100	98	92
AUG										
31...	1028	1028	3860	16.5	.12	1070	11200	100	100	99
SEP										
19...	1028	1028	357	28.0	.64	452	436	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT									
19...	96	87	--	--	--	--	--	--	--
NOV									
14...	99	94	--	--	--	--	--	--	--
DEC									
12...	--	--	100	98	71	61	56	100	100
JAN									
24...	--	--	99	91	45	20	16	--	--
FEB									
24...	53	50	--	--	--	--	--	--	--
MAR									
20...	--	--	100	94	48	20	17	--	--
20...	73	68	--	--	--	--	--	--	--
APR									
17...	--	--	100	94	62	54	51	--	--
MAY									
16...	92	82	--	--	--	--	--	--	--
JUN									
20...	77	69	--	--	--	--	--	--	--
JUL									
25...	88	86	--	--	--	--	--	--	--
AUG									
31...	97	95	--	--	--	--	--	--	--
SEP									
19...	--	--	--	100	95	64	46	100	98

07040130 ST. FRANCIS RIVER AT HOLLY ISLAND, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT									
19...	--	--	--	--	100	91	14	3	3
NOV									
14...	100	99	98	97	--	91	23	0	0
DEC									
12...	99	98	95	91	--	80	10	0	0
JAN									
24...	--	--	--	--	96	61	2	1	1
FEB									
24...	--	100	98	90	--	73	3	1	1
MAR									
20...	--	--	--	--	98	67	15	1	0
20...	100	99	84	58	--	46	32	18	8
APR									
17...	--	--	--	--	93	54	5	0	0
MAY									
16...	--	--	--	--	96	72	24	11	10
JUN									
20...	--	--	--	--	94	56	14	9	8
JUL									
25...	--	--	--	--	96	76	14	3	3
AUG									
31...	--	--	--	--	100	99	94	62	42
SEP									
19...	92	87	84	77	--	72	64	38	23

07040150 VARNEY RIVER NEAR SENATH, MO

LOCATION.--Lat 36°08'20", long 90°13'54", in NE¼SE¼ sec.6, T.17 N., R.8 E., Dunklin County, Hydrologic Unit 08020203, off county road 4.1 mi (6.60 km) west of Senath, Mo.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
NOV											
02...	1028	1028	44	331	8.6	17.0	.30	5.1	99	12	--
MAY											
04...	1028	1028	66	330	7.7	14.0	.43	7.0	87	16	100
JUN											
20...	1028	1028	42	340	8.0	26.0	.20	7.1	271	31	--
JUL											
20...	1028	1028	.00	337	7.4	26.0	--	4.7	--	--	--
AUG											
31...	1028	1028	.00	189	7.5	18.5	--	6.5	--	--	--
SEP											
19...	1028	1028	.00	340	7.8	32.0	.27	8.7	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
NOV										
02...	--	100	100	99	98	--	--	100	99	99
MAY										
04...	98	98	81	64	58	100	98	84	42	10
JUN										
20...	100	100	99	98	96	--	100	100	99	98
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	--	--	--	--	--	--	--	--	--	--

07040350 BIG SLOUGH DITCH NEAR PARAGOULD, AR

LOCATION.--Lat 36°02'25", long 90°21'39", in SE¼SW¼ sec.5, T.16 N., R.6 E., Greene County, Hydrologic Unit 08020203, at bridge on State Highway 25, 6.9 mi (11.1 km) east of Paragould.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT										
18...	1028	1028	221	350	7.9	16.0	.61	7.8	71	42
NOV										
03...	1028	1028	166	339	7.9	17.0	.30	8.0	82	37
FEB										
23...	1028	1028	289	298	6.9	6.0	.51	12.0	95	74
MAY										
04...	1028	1028	.00	341	7.6	13.5	--	8.9	--	--
JUN										
07...	1028	1028	535	138	7.1	22.0	--	4.5	2000	2890
JUL										
20...	1028	1028	.00	339	7.6	28.0	--	8.2	--	--
AUG										
11...	1028	1028	113	345	8.4	27.0	.24	8.0	229	70
SEP										
07...	1028	1028	153	329	7.5	25.0	.33	10.5	54	22

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT										
18...	--	100	100	99	96	100	100	100	98	98
NOV										
03...	100	100	100	97	96	--	100	100	100	98
FEB										
23...	100	98	93	88	84	--	100	100	97	96
MAY										
04...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	100	100	100	99	100	99	95	20	6
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	100	98	92	87	85	--	100	100	99	99
SEP										
07...	100	99	91	83	78	100	100	100	99	99

07040424 LOCUST CREEK DITCH NEAR PARAGOULD, AR

LOCATION.--Lat 35°58'06", long 90°24'17", in SW¼SW¼ sec.36, T.16 N., R.6 E., Greene County, Hydrologic Unit 08020203, at bridge on county road east of State Highway 135, 6.0 mi (9.65 km) southeast of Paragould.

PERIOD OF RECORD.--February to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)
FEB										
17...	1028	1028	232	113	6.3	.0	.41	12.4	93	58
JUN										
07...	1028	1028	.00	401	7.4	22.5	--	5.4	--	--
JUL										
20...	1028	1028	.00	262	7.4	26.0	--	6.3	--	--
AUG										
11...	1028	1028	.00	350	7.6	28.0	--	11.2	--	--
SEP										
07...	1028	1028	.00	281	7.3	21.0	--	7.0	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
FEB										
17...	100	95	90	65	56	52	100	97	8	4
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--

07040428 EIGHT MILE DITCH NEAR PARAGOULD, AR

LOCATION.--Lat 35°58'22", long 90°25'32", in NE¼SE¼ sec.34, T.16 N., R.6 E., Greene County, Hydrologic Unit 08020203, at bridge on county road east of State Highway 135, 5.5 mi (8.85 km) southeast of Paragould.

PERIOD OF RECORD.--May to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
MAY											
03...	1028	1028	140	237	7.2	13.0	.30	5.9	358	135	100
JUN											
07...	1028	1028	28	265	7.5	23.0	--	4.6	461	35	--
JUL											
20...	1028	1028	.00	370	7.5	26.0	--	4.7	--	--	--
AUG											
11...	1028	1028	8.0	290	8.3	31.0	--	11.2	125	2.7	--
SEP											
07...	1028	1028	20	190	7.3	21.0	.61	8.1	94	5.1	100

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
MAY										
03...	98	97	92	86	82	96	86	34	11	10
JUN										
07...	--	100	100	99	99	99	92	38	8	6
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	100	97	54	31	27	98	90	29	1	1
SEP										
07...	98	84	47	34	31	99	93	34	4	3

07040440 THOMPSON CREEK NEAR LESTER, AR

LOCATION.--Lat 35°52'11", long 90°27'43", in NE¼NW¼ sec.9, T.14 N., R.6 E., Craighead County, Hydrologic Unit 08020203, at bridge on State Highway 135, 0.8 mi (1.29 km) south of Lester.

PERIOD OF RECORD.--May to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
MAY											
03...	1028	1028	.00	418	7.2	14.0	--	6.2	--	--	--
JUN											
06...	1028	1028	.00	420	7.2	28.0	--	4.5	--	--	--
JUL											
19...	1028	1028	.00	246	8.3	31.5	--	14.2	--	--	--
AUG											
11...	1028	1028	9.2	400	7.7	24.5	.24	5.4	159	3.9	100
SEP											
07...	1028	1028	.00	234	7.2	19.0	--	7.4	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
MAY										
03...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	100	96	81	74	66	100	99	92	68	56
SEP										
07...	--	--	--	--	--	--	--	--	--	--

07040445 BIG BAY DITCH NEAR LESTER, AR

LOCATION.--Lat 35°52'12", long 90°27'45", in NW¼SW¼ sec.4, T.14 N., R.6 E., Craighead County, Hydrologic Unit 08020203, at bridge on State Highway 135, 0.8 mi (1.29 km) south of Lester.

PERIOD OF RECORD.--May to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)
MAY										
03...	1028	1028	.00	439	7.7	13.5	8.2	--	--	--
JUN										
06...	1028	1028	.00	422	7.5	27.0	8.0	--	--	--
JUL										
19...	1028	1028	.00	323	7.7	31.0	10.1	--	--	--
AUG										
11...	1028	1028	5.8	380	8.0	27.0	7.5	220	2.3	100
SEP										
07...	1028	1028	.00	311	7.2	19.0	6.3	--	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
MAY									
03...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
JUL									
19...	--	--	--	--	--	--	--	--	--
AUG									
11...	99	90	84	77	100	99	90	71	63
SEP									
07...	--	--	--	--	--	--	--	--	--

07040450 ST. FRANCIS RIVER AT LAKE CITY, AR

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

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1931 to December 1945 in files of Corps of Engineers. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 217.69 ft (66.352 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 1, 1948, nonrecording gage at railroad bridge 0.1 mi (0.2 km) downstream at present datum.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--46 years, 2,971 ft^3/s (84.1 m^3/s), 2,152,000 acre-ft/yr (2,650 hm^3/yr).

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

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

EXTREMES FOR WATER YEAR 1977.--Maximum discharge 13,400 ft^3/s (379 m^3/s) Apr. 4, gage height, 9.57 ft (2.917 m); minimum daily, 239 ft^3/s (6.77 m^3/s) Oct. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	427	333	895	435	616	5100	4820	1630	1570	451	569
2	316	413	361	909	449	612	9190	4780	1350	1580	440	568
3	320	383	398	911	482	831	12600	4760	1080	1480	423	591
4	324	359	428	932	528	3010	13200	4760	836	1360	394	621
5	343	349	441	941	570	3180	12600	4740	779	1300	369	651
6	362	357	434	953	581	3200	11400	4660	724	1250	354	662
7	384	378	429	971	563	2960	10500	4570	682	1210	346	627
8	379	373	409	877	536	2680	9590	4490	631	1130	338	560
9	362	358	388	734	535	2510	8510	4390	585	1060	327	492
10	347	343	375	549	540	2580	7530	4290	554	1220	316	477
11	343	330	400	524	537	2710	6700	4200	526	1170	310	487
12	339	317	437	511	578	3730	6040	4110	512	980	305	481
13	347	326	455	499	566	4000	5640	4010	508	827	370	488
14	343	336	466	526	553	4050	5330	3820	500	788	450	527
15	328	334	472	570	540	3740	5150	3400	505	809	458	612
16	312	344	473	576	532	3180	5000	2880	501	823	483	786
17	308	342	463	543	581	2970	4900	2400	589	763	462	881
18	282	341	453	527	531	3230	4860	1870	758	686	464	912
19	255	339	441	505	531	3420	4900	1460	1020	600	500	836
20	247	338	449	487	523	3470	4990	1220	1140	556	543	822
21	239	325	482	486	511	3570	5130	1040	929	530	578	813
22	240	312	514	475	495	3720	5270	914	734	500	614	793
23	241	287	540	469	533	3850	6000	933	769	611	640	784
24	262	256	573	456	672	3960	6980	973	680	565	647	780
25	412	248	600	450	710	4030	6340	1280	824	493	644	1980
26	494	251	624	449	650	4020	5610	1570	994	460	639	4280
27	433	286	655	468	636	4090	5130	1600	1060	446	616	5280
28	387	288	693	487	630	5110	4920	1560	1270	450	572	4590
29	362	302	721	484	---	6690	4860	1760	1410	464	527	3970
30	391	316	749	436	---	6140	4850	2040	1540	469	595	4800
31	425	---	789	425	---	4960	---	1990	---	460	615	---
TOTAL	10439	9958	15445	19025	15478	106819	208870	91290	25620	26610	14790	40720
MEAN	337	332	498	614	553	3446	6962	2945	854	858	477	1357
MAX	494	427	789	971	710	6690	13200	4820	1630	1580	647	5280
MIN	239	248	333	425	435	612	4850	914	500	446	305	477
AC-FT	20710	19750	30640	37740	30700	211900	414300	181100	50820	52780	29340	80770

CAL YR 1976	TOTAL	739648	MEAN	2021	MAX	14100	MIN 239	AC-FT	1467000
WTR YR 1977	TOTAL	585064	MEAN	1603	MAX	13200	MIN 239	AC-FT	1160000

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

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)
OCT											
03...	9827	9827	--	--	95	7.4	20.0	40	27	3.0	3.0
04...	1028	1028	0	1610	100	7.5	17.5	--	--	--	--
04...	1028	1028	68	3410	--	--	17.5	--	--	--	--
31...	9827	9827	--	--	286	7.8	20.0	10	--	--	--
NOV											
02...	1028	1028	--	629	287	7.8	17.5	--	--	--	--
28...	9827	9827	--	--	211	--	6.0	100	--	--	--
DEC											
07...	1028	1028	--	1920	185	7.4	2.0	--	--	--	--
JAN											
03...	9827	9827	--	--	188	7.7	2.0	35	72	15	8.0
23...	1028	1028	--	1020	239	6.1	.5	--	--	--	--
FEB											
17...	1028	1028	--	1230	135	6.3	.0	--	--	--	--
MAR											
07...	9827	9827	--	--	108	7.1	7.0	180	--	--	--
15...	1028	1028	67	2230	74	6.1	8.5	--	--	--	--
15...	1028	1028	68	8370	118	6.5	8.0	--	--	--	--
21...	9827	9827	--	--	161	7.5	14.0	60	--	--	--
APR											
04...	9827	9827	--	--	--	7.7	21.0	30	67	13	7.8
06...	1028	1028	67	1620	167	7.2	20.0	--	--	--	--
06...	1028	1028	68	5110	134	7.1	19.5	--	--	--	--
24...	9827	9827	--	--	244	--	19.0	30	96	18	11
MAY											
04...	1028	1028	--	1010	263	8.8	13.5	--	--	--	--
22...	9827	9827	--	--	272	7.8	23.0	30	--	--	--
JUN											
07...	1028	1028	--	748	262	8.0	24.0	--	--	--	--
12...	9827	9827	--	--	--	--	--	--	--	--	--
19...	9827	9827	--	--	351	7.9	26.0	15	--	--	--
JUL											
18...	9827	9827	--	--	128	--	27.0	100	73	15	6.0
20...	1028	1028	--	1180	155	7.6	26.0	--	--	--	--
AUG											
11...	1028	1028	--	582	275	8.1	25.0	--	--	--	--
29...	9827	9827	--	--	332	8.0	26.0	10	--	--	--
SEP											
07...	1028	1028	--	950	136	7.6	18.5	--	--	--	--
18...	9827	9827	--	--	298	7.9	26.0	10	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ALKA-LINITY (MG/L AS CACO3) (00410)	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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT										
03...	2.1	4.1	34	29	5.5	155	38	.31	.06	.37
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	6.5	--	--	<.05	<.05	<.05
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	7.0	8.0	--	--	.15	.05	.20
DEC										
07...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	4.2	1.9	75	39	6.0	123	10	.24	<.05	.25
23...	--	--	--	--	--	--	--	--	--	--
FEB										
17...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	--	--	--	9.0	6.0	190	445	.53	.08	.61
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	10	6.0	172	66	.32	.04	.36
APR										
04...	4.3	2.0	78	13	6.5	122	48	.03	.01	.04
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
24...	6.6	2.0	110	9.0	7.0	153	82	.02	.01	.03
MAY										
04...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	7.0	185	131	.06	.01	.07
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	<1.0	7.5	203	92	.05	.02	.07
JUL										
18...	4.4	3.5	43	8.0	--	171	98	.30	.06	.36
20...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	4.0	9.0	199	106	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	7.0	7.0	171	--	.04	.01	.05

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
OCT										
03...	.81	.19	1.0	1.4	6.1	.27	<5	<10	<5	<10
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
31...	<.05	--	1.9	--	--	.18	--	<10	--	10
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	.18	.82	1.0	1.2	5.3	.20	--	<10	--	30
DEC										
07...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	.05	.85	.90	1.1	5.1	.12	<5	<10	<5	<20
23...	--	--	--	--	--	--	--	--	--	--
FEB										
17...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	.28	1.7	2.0	2.6	12	.47	--	<10	--	40
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
21...	.24	.76	1.0	1.4	6.0	.11	--	<10	--	<20
APR										
04...	.05	.75	.80	.84	3.7	--	<5	<10	<5	<20
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
24...	.05	.55	.60	.63	2.8	.18	5	<10	--	<20
MAY										
06...	--	--	--	--	--	--	--	--	--	--
22...	.11	.29	.40	.47	2.1	--	--	<10	--	<20
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
19...	.06	1.1	1.2	1.3	5.6	.22	--	--	--	<20
JUL										
18...	.23	.57	.80	1.2	5.1	.25	<5	<10	<5	<20
20...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
29...	--	--	.70	--	--	.31	--	<10	--	<20
SEP										
07...	--	--	--	--	--	--	--	--	--	--
18...	.04	.26	.30	.35	1.5	.23	--	<10	--	<20

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	ODE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)
OCT										
03...	--	<10	130	--	10	.00	.00	.00	.00	.00
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
31...	1600	--	450	--	<10	--	--	--	--	--
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	4600	--	170	--	20	--	--	--	--	--
DEC										
07...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	830	<10	100	--	<10	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
FEB										
17...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	11000	--	460	--	60	.00	.00	.00	.00	.00
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
21...	5000	--	180	--	10	--	--	--	--	--
APR										
04...	1200	<10	200	--	30	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
24...	3500	<10	580	--	<10	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
22...	5300	--	670	--	20	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	.00	.00	.00	.00	.00
19...	3100	--	700	--	--	--	--	--	--	--
JUL										
18...	5800	<10	--	<1.0	10	.00	.00	.00	.00	.00
20...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
29...	3800	--	680	--	<10	.00	.00	.00	.00	.00
SEP										
07...	--	--	--	--	--	--	--	--	--	--
18...	2900	--	620	--	<10	.00	.00	.00	.00	.00

ST. FRANCIS RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT												
03...	.00	.00	0	--	--	--	--	--	--	--	--	--
04...	--	--	--	158	687	--	--	100	92	85	77	--
04...	--	--	--	60	552	--	--	--	100	93	89	--
NOV												
02...	--	--	--	132	224	--	100	98	91	77	70	--
DEC												
07...	--	--	--	171	886	--	100	96	81	64	57	--
JAN												
23...	--	--	--	48	132	--	100	84	63	50	45	--
FEB												
17...	--	--	--	66	219	100	95	90	60	46	40	--
MAR												
07...	.00	.00	0	--	--	--	--	--	--	--	--	--
15...	--	--	--	437	2630	--	100	96	86	79	76	--
15...	--	--	--	354	8000	--	100	93	76	65	60	--
APR												
06...	--	--	--	265	1160	--	--	--	--	--	--	100
06...	--	--	--	729	10100	--	--	--	--	--	--	100
MAY												
04...	--	--	--	216	589	--	--	100	78	54	48	--
JUN												
07...	--	--	--	185	374	--	--	100	94	90	88	--
12...	.00	.00	0	--	--	--	--	--	--	--	--	--
JUL												
18...	.00	.00	0	--	--	--	--	--	--	--	--	--
20...	--	--	--	125	398	--	100	97	94	92	90	--
AUG												
11...	--	--	--	130	204	--	100	99	95	87	80	--
29...	.00	.00	0	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	91	233	--	100	100	97	91	88	--
18...	.00	.00	0	--	--	--	--	--	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	97	86	45	15	11
04...	--	--	--	--	98	93	93	--	90	65	18	8
NOV												
02...	--	--	--	--	--	--	--	--	100	93	17	4
DEC												
07...	--	--	--	--	--	--	--	100	93	46	5	2
JAN												
23...	--	--	--	--	--	--	--	100	95	57	8	3
FEB												
17...	--	--	--	--	--	--	--	100	98	48	1	1
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	99	97	82	20	12
APR												
06...	97	79	55	42	--	--	--	100	97	70	9	3
06...	97	80	30	17	--	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	--	100	93	21	5	2
JUN												
07...	--	--	--	--	--	--	--	100	87	27	8	5
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	98	87	49	3	0
AUG												
11...	--	--	--	--	--	--	--	100	98	78	4	1
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	100	98	50	3	1
18...	--	--	--	--	--	--	--	--	--	--	--	--

07040500 COCKLE BURR SLOUGH DITCH NEAR BLACK OAK, AR

LOCATION.--Lat 35°47'31", long 90°23'09", in SE¼SW¼ sec.31, T.14 N., R.7 E., Craighead County, Hydrologic Unit 08020203, just off county road west of State Highway 135, 3.5 mi (5.63 km) south of Black Oak.

PERIOD OF RECORD.--May to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)
MAY										
03...	1028	1028	.00	405	7.5	14.0	--	7.6	--	--
JUN										
06...	1028	1028	.00	395	7.6	26.0	--	6.4	--	--
JUL										
19...	1028	1028	.00	359	8.2	31.5	--	13.0	--	--
AUG										
10...	1028	1028	.00	385	7.7	22.0	--	6.4	--	--
SEP										
06...	1028	1028	176	410	8.1	23.0	.30	8.8	29	14

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
MAY									
03...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
JUL									
19...	--	--	--	--	--	--	--	--	--
AUG									
10...	--	--	--	--	--	--	--	--	--
SEP									
06...	100	96	88	81	100	100	100	99	97

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

LOCATION.--Lat 35°51'00", long 90°07'40", in sec.10, T.14 N., R.9 E., Mississippi County, Hydrologic Unit 08020204, at Corps of Engineers gaging station at bridge on State Highway 18, 3.5 mi (5.6 km) southeast of Manila, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--2,084 mi² (5,398 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
03...	9827	9827	162	7.7	19.0	60	4.8	51	1.4	50	59	13
31...	9827	9827	286	7.9	19.0	10	7.8	83	1.8	8	--	--
NOV												
28...	9827	9827	385	--	6.0	10	11.7	94	2.4	--	--	--
JAN												
03...	9827	9827	261	7.7	2.0	50	12.2	88	2.2	<7	85	18
MAR												
07...	9827	9827	134	7.6	8.0	20	13.1	110	2.9	10	--	--
21...	9827	9827	112	7.2	14.0	240	7.7	74	2.5	<10	--	--
APR												
04...	9827	9827	--	7.6	17.0	50	9.6	99	4.3	100	45	7.0
24...	9827	9827	175	--	20.0	30	11.7	127	4.9	<10	69	16
MAY												
22...	9827	9827	188	8.1	24.0	10	9.3	109	2.2	25	--	--
JUN												
12...	9827	9827	--	--	--	--	--	--	--	--	--	--
19...	9827	9827	248	7.8	27.0	10	8.1	100	2.3	13	--	--
JUL												
18...	9827	9827	235	--	28.0	20	8.3	105	4.4	23	110	30
AUG												
29...	9827	9827	231	7.7	27.0	10	5.1	63	2.3	--	--	--
SEP												
18...	9827	9827	202	7.8	27.0	10	8.0	99	2.7	50	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
03...	5.0	4.1	4.7	56	9.0	8.0	126	48	.11	<.05	.12
31...	--	--	--	--	--	14	--	--	<.05	<.05	.05
NOV											
28...	--	--	--	--	11	19	235	22	.09	<.05	.10
JAN											
03...	8.0	7.8	4.5	92	10	14	199	55	.38	.06	.44
MAR											
07...	--	--	--	--	8.0	7.0	103	46	.29	.02	.31
21...	--	--	--	--	9.0	5.5	244	210	.42	.11	.53
APR											
04...	4.3	4.0	4.2	56	16	7.0	145	96	.28	.04	.32
24...	6.3	5.0	2.9	73	11	7.5	117	18	.02	.01	.03
MAY											
22...	--	--	--	--	--	6.5	114	24	--	<.01	.03
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	4.0	10	152	28	.03	.01	.04
JUL											
18...	9.0	7.3	2.7	98	2.0	--	151	18	.02	.01	.03
AUG											
29...	--	--	--	--	5.0	8.5	138	30	--	--	--
SEP											
18...	--	--	--	--	9.0	7.5	114	--	<.01	.01	.01

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
03...	.69	.31	1.0	1.1	5.0	.26	<10	10	10	--	<10
31...	<.05	--	1.7	1.7	7.7	.15	<10	--	<10	1300	--
NOV											
28...	.05	.95	1.0	1.1	4.9	.09	<10	--	<20	1300	--
JAN											
03...	.35	.65	1.0	1.4	6.4	.25	<10	<5	20	3800	<10
MAR											
07...	.07	1.4	1.5	1.8	8.0	.18	<10	--	20	2000	--
21...	.55	1.5	2.1	2.6	12	.29	<10	--	20	10400	--
APR											
04...	.17	.43	.60	.92	4.1	--	<10	5	60	5100	<10
24...	.05	.55	.60	.63	2.8	.12	<10	--	<20	910	<10
MAY											
22...	.03	.77	.80	.83	3.7	--	10	--	<20	1000	--
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	<.01	--	1.1	1.1	5.0	.14	--	--	<20	1300	--
JUL											
18...	.03	.37	.40	.43	1.9	.15	<10	<5	<20	490	<10
AUG											
29...	--	--	.40	--	--	.19	<10	--	<20	1300	--
SEP											
18...	.04	--	<.01	--	--	.08	<10	--	<20	590	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
03...	160	--	<10	.00	.00	.00	.00	.00	.00	.00	0
31...	110	--	<10	--	--	--	--	--	--	--	--
NOV											
28...	73	--	20	--	--	--	--	--	--	--	--
JAN											
03...	78	--	20	--	--	--	--	--	--	--	--
MAR											
07...	52	--	<10	.00	.00	.00	.00	.00	.00	.00	0
21...	180	--	50	--	--	--	--	--	--	--	--
APR											
04...	140	--	20	--	--	--	--	--	--	--	--
24...	73	--	<10	--	--	--	--	--	--	--	--
MAY											
22...	95	--	40	--	--	--	--	--	--	--	--
JUN											
12...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
19...	160	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
29...	190	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP											
18...	150	--	10	.00	.00	.00	.00	.00	.00	.00	0

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE, AR

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

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1947 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 213.15 ft (64.968 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1949, nonrecording gage at present site and datum.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--29 years (1965-76), 2,896 ft³/s (82.0 m³/s), 2,098,000 acre-ft/yr (2,590 hm³/yr).

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

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 8,320 ft³/s (236 m³/s) Apr. 4, 5, gage height, 7.74 ft (2.359 m); minimum, 113 ft³/s (3.20 m³/s) Oct. 19, gage height, 1.58 ft (0.482 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	316	530	1120	351	726	1100	5290	2220	1890	2340	830	933
2	311	436	947	342	747	1080	6710	2180	1780	2320	416	1040
3	298	438	846	788	788	1140	7680	2100	1680	2280	434	913
4	259	673	824	379	788	3360	8210	1970	1540	2320	1890	664
5	237	903	779	303	830	5110	8290	1800	1450	2320	996	542
6	284	811	877	303	850	3900	8070	1760	1390	2260	283	515
7	268	747	905	303	892	3270	7490	1720	1330	2180	237	488
8	246	620	720	309	902	3170	6800	1680	1220	2030	224	406
9	203	556	671	329	892	3130	5890	1580	1200	1990	850	379
10	201	381	655	335	892	3150	4860	1390	1180	2390	250	360
11	183	246	1380	351	892	2770	4010	1270	1100	2280	329	329
12	167	206	1630	388	933	3050	3430	1160	1100	2050	329	296
13	163	198	1030	370	1100	4390	3100	---	1160	1950	529	406
14	151	197	583	397	1040	4380	2200	---	1330	1930	556	809
15	138	314	477	448	975	3890	1660	---	1200	1830	529	1490
16	156	455	442	637	892	4380	1410	---	1100	1740	434	2850
17	141	298	440	624	788	4660	1350	---	1040	1600	664	2870
18	116	213	444	624	809	3680	1330	---	2220	1470	1720	1990
19	117	262	427	624	809	3280	1370	1110	1930	1330	1850	1390
20	144	304	463	664	809	3030	1510	---	1450	1200	1850	1350
21	147	370	453	788	747	2790	1640	---	1220	1120	1430	1240
22	163	1350	410	747	583	2670	1700	---	954	1040	954	892
23	201	994	425	747	583	2370	1990	---	1370	996	664	747
24	392	658	418	705	1120	2160	2750	---	1490	975	597	---
25	1000	461	618	691	1240	1950	2750	---	1220	691	542	---
26	928	573	610	691	954	1830	2440	---	1490	335	542	---
27	636	1120	554	747	954	1680	2200	---	1950	316	502	---
28	503	1830	409	892	954	1470	2100	---	2260	425	461	5990
29	451	1540	828	954	---	2160	2300	---	2410	1720	515	6230
30	529	1320	469	809	---	3200	2320	---	2300	1270	556	6230
31	667	---	396	726	---	3770	---	1930	---	1020	583	---
TOTAL	9716	19004	21250	17366	24489	91970	112850	---	44954	49718	22546	---
MEAN	313	633	685	560	875	2967	3762	---	1498	1604	727	---
MAX	1000	1830	1630	954	1240	5110	8290	---	2410	2390	1890	---
MIN	116	197	396	303	583	1080	1330	---	954	316	224	---
AC-FT	19270	37690	42150	34450	48570	182400	223800	---	89170	98620	44720	---

CAL YR 1976 TOTAL 859279 MEAN 2348 MAX 14900 MIN 116 AC-FT 1704000

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

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT									
04...	1028	1028	3870	160	7.5	18.5	.24	5.8	366
NOV									
01...	1028	1028	460	386	8.6	18.0	.46	9.0	53
DEC									
06...	1028	1028	3360	335	7.2	7.0	.43	10.4	154
JAN									
23...	1028	1028	1640	436	6.2	2.0	.76	8.7	126
FEB									
16...	1028	1028	5960	155	6.2	2.0	.30	12.4	397
MAR									
14...	1028	1028	11100	150	6.5	8.0	.30	9.6	233
APR									
05...	1028	1028	2550	370	7.8	20.0	.38	9.2	469
MAY									
03...	1028	1028	1700	520	7.9	14.5	.33	9.7	368
JUN									
06...	1028	1028	1650	296	7.7	27.0	--	7.1	200
JUL									
19...	1028	1028	1560	269	8.3	29.5	.30	7.8	141
AUG									
10...	1028	1028	1040	375	8.3	27.0	.27	7.4	115
SEP									
06...	1028	1028	1870	156	7.7	22.0	.18	7.9	110

DATE	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)
OCT									
04...	3820	--	--	100	94	87	82	--	--
NOV									
01...	66	--	--	100	95	89	86	--	--
DEC									
06...	1400	100	97	91	73	65	63	--	--
JAN									
23...	558	--	100	83	62	43	29	--	--
FEB									
16...	6390	--	--	--	--	--	--	100	97
MAR									
14...	6980	--	100	96	78	68	63	--	--
APR									
05...	3230	98	--	--	--	--	--	97	97
MAY									
03...	1690	--	100	100	96	88	77	--	--
JUN									
06...	891	--	--	100	98	95	94	--	--
JUL									
19...	594	--	100	100	98	96	93	--	--
AUG									
10...	323	--	100	99	98	96	93	--	--
SEP									
06...	555	--	100	97	96	94	91	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT								
04...	--	--	--	--	100	98	48	38
NOV								
01...	--	--	--	100	100	87	38	27
DEC								
06...	--	--	--	100	100	88	66	58
JAN								
23...	--	--	--	100	99	94	84	73
FEB								
16...	70	38	32	99	92	26	5	4
MAR								
14...	--	--	--	100	98	83	46	19
APR								
05...	80	58	44	100	90	25	8	3
MAY								
03...	--	--	--	100	98	90	61	20
JUN								
06...	--	--	--	100	87	12	2	1
JUL								
19...	--	--	--	99	85	42	30	27
AUG								
10...	--	--	--	100	97	31	21	20
SEP								
06...	--	--	--	99	94	53	20	15

07047400 PEMISCOT BAYOU AT DELL, AR

LOCATION.--Lat 35°51'30", long 90°02'48", in SW¼ sec.5, T.14 N., R.10 E., Mississippi County, Hydrologic Unit 08020204, at bridge on State Highway 119, 0.7 mi (1.1 km) north of Dell.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	230	7.7	20.0	100	5.0	54	>5.0	550	89
31...	9827	9827	485	7.9	20.0	10	10.0	109	9.2	430	--
NOV											
28...	9827	9827	377	--	7.0	20	9.7	80	7.8	860	--
JAN											
03...	9827	9827	501	7.6	2.0	10	10.5	76	3.4	110	220
MAR											
07...	9827	9827	168	7.3	8.0	40	9.7	82	5.0	800	--
21...	9827	9827	471	7.5	15.0	5	8.5	83	6.4	370	--
APR											
04...	9827	9827	--	7.7	18.0	10	10.3	108	9.1	470	190
24...	9827	9827	327	--	19.0	20	7.1	76	9.0	1800	110
MAY											
22...	9827	9827	481	7.8	25.0	10	9.7	115	8.9	1500	--
JUN											
12...	9827	9827	--	--	--	--	--	--	--	--	--
19...	9827	9827	66	6.9	27.0	150	5.2	64	4.6	40000	--
JUL											
18...	9827	9827	421	--	29.0	15	12.2	156	11	25000	200
AUG											
29...	9827	9827	489	8.0	27.0	10	5.9	73	5.5	3700	--
SEP											
18...	9827	9827	490	7.8	27.0	10	8.5	105	6.8	1600	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
03...	22	7.0	9.2	6.8	78	5.0	7.5	127	26	.07
31...	--	--	--	--	--	--	16	--	--	1.8
NOV										
28...	--	--	--	--	--	15	11	233	43	.84
JAN										
03...	59	16	18	4.0	230	14	11	304	17	.47
MAR										
07...	--	--	--	--	--	15	6.0	221	450	.64
21...	--	--	--	--	--	28	7.5	295	69	.48
APR										
04...	47	17	19	4.5	210	47	11	336	40	.59
24...	19	11	10	5.1	150	16	7.5	199	156	.68
MAY										
22...	--	--	--	--	--	--	11	320	75	.50
JUN										
12...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	8.0	3.5	176	2200	.39
JUL										
18...	54	15	16	4.7	190	7.0	--	264	82	.33
AUG										
29...	--	--	--	--	--	15	12	304	102	--
SEP										
18...	--	--	--	--	--	29	12	286	--	.41

07047400 PEMISCOT BAYOU AT DELL, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
03...	<.05	.09	.16	.92	<10	<5	10	--	<10	430
31...	.13	1.9	.07	4.6	<10	--	<10	2100	--	380
NOV										
28...	.10	.94	.67	.13	<10	--	20	2500	--	480
JAN										
03...	.10	.57	1.1	.90	<10	<5	<20	2200	<10	760
MAR										
07...	.10	.74	.55	1.4	<10	--	30	14900	--	440
21...	.04	.52	.81	.20	<10	--	<20	2600	--	890
APR										
04...	.07	.66	.79	--	<10	30	40	1800	10	870
24...	.05	.73	.55	1.4	<10	--	<20	7700	<10	720
MAY										
22...	.01	.51	.14	--	<10	--	<20	3900	--	810
JUN										
12...	--	--	--	--	--	--	--	--	--	--
19...	.30	.69	.53	2.8	--	--	70	22400	--	980
JUL										
18...	.04	.37	.06	.41	<10	<5	<20	2000	<10	--
AUG										
29...	--	--	--	1.8	<10	--	<20	3200	--	590
SEP										
18...	.16	.57	.41	.71	<10	--	<20	2600	--	740

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
03...	--	<10	.00	.00	.00	.01	.00	.00	.00	0
31...	--	10	--	--	--	--	--	--	--	--
NOV										
28...	--	30	--	--	--	--	--	--	--	--
JAN										
03...	--	<10	--	--	--	--	--	--	--	--
MAR										
07...	--	110	.00	.00	.00	.00	.00	.00	.00	0
21...	--	40	--	--	--	--	--	--	--	--
APR										
04...	--	10	--	--	--	--	--	--	--	--
24...	--	30	--	--	--	--	--	--	--	--
MAY										
22...	--	70	--	--	--	--	--	--	--	--
JUN										
12...	--	--	.00	.00	.00	.00	.00	.00	.00	0
19...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
29...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
18...	--	10	.00	.00	.00	.00	.00	.00	.00	0

07047700 TYRONZA RIVER NEAR TWIST, AR

LOCATION.--Lat 35°22'30", long 90°28'00", in NE¼SE¼ sec.29, T.9 N., R.6 E., Crittenden County, Hydrologic Unit 08020203, at bridge on State Highway 42, 0.4 mi (0.6 km) downstream from Mack Bayou, and 2.1 mi (3.4 km) east of Twist.

DRAINAGE AREA.--533 mi² (1,380 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	--	--	--	--	--	--	--	--	--
04...	9827	9827	260	7.8	17.0	30	6.2	64	4.0	420	99
NOV											
01...	9827	9827	559	8.1	18.0	0	7.9	83	2.6	88	--
29...	9827	9827	293	--	10.0	100	11.3	100	3.8	3500	--
JAN											
04...	9827	9827	584	7.8	2.0	5	10.9	79	1.7	<7	280
MAR											
08...	9827	9827	154	7.4	7.0	400	11.0	90	3.8	330	--
22...	9827	9827	511	7.9	15.0	5	10.6	104	3.8	150	--
APR											
05...	9827	9827	--	8.0	21.0	5	7.9	88	2.3	340	250
25...	9827	9827	495	--	18.0	10	8.0	84	.2	210	200
MAY											
23...	9827	9827	429	7.9	24.0	20	6.8	80	3.3	340	--
JUN											
12...	9827	9827	--	--	--	--	--	--	--	--	--
20...	9827	9827	--	--	--	--	--	--	--	--	--
20...	9827	9827	544	7.9	26.0	10	8.1	99	4.8	130	--
JUL											
18...	9827	9827	323	--	29.0	20	6.8	87	3.3	600	180
AUG											
30...	9827	9827	75	7.2	22.0	75	6.0	68	5.1	--	--
SEP											
18...	9827	9827	--	--	--	--	--	--	--	720	--
19...	9827	9827	289	7.8	26.0	30	7.2	88	2.8	720	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
04...	21	9.0	6.5	6.5	88	15	5.5	176	125	.16
NOV										
01...	--	--	--	--	--	--	8.5	--	--	.06
29...	--	--	--	--	--	19	5.5	289	396	.68
JAN										
04...	77	21	17	3.9	270	8.0	9.0	368	14	.26
MAR										
08...	--	--	--	--	--	14	4.0	370	1100	.92
22...	--	--	--	--	--	34	7.5	312	141	.05
APR										
05...	63	20	16	4.5	270	41	8.5	348	56	.01
25...	43	19	15	4.4	240	32	7.5	306	138	.35
MAY										
23...	--	--	--	--	--	--	7.5	296	281	.16
JUN										
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	22	--	--	--	--
20...	--	--	--	--	--	--	7.5	334	283	--
JUL										
18...	43	14	8.8	5.0	150	1.0	--	211	169	.39
AUG										
30...	--	--	--	--	--	4.0	3.0	134	1170	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	17	6.0	153	--	.14

07047700 TYRONZA RIVER NEAR TWIST, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
04...	.05	.21	.27	.33	<10	10	20	--	<10	250
NOV										
01...	<.05	.07	.13	.29	<10	--	<10	3600	--	450
29...	.12	.80	.46	.61	<10	--	30	13100	--	43
JAN										
04...	<.05	.27	.26	.15	<10	<5	<20	1500	<10	360
MAR										
08...	.18	1.1	.44	1.0	<10	--	50	17300	--	240
22...	.01	.06	.05	.19	<10	--	<20	5000	--	260
APR										
05...	.01	.02	.04	--	<10	<5	<20	2900	<10	290
25...	.05	.40	.07	.24	<10	--	20	5600	<10	250
MAY										
23...	.05	.21	.07	--	<10	--	20	9000	--	230
JUN										
12...	--	--	--	--	--	--	--	--	--	--
20...	<.01	.01	<.01	.43	--	--	--	--	--	--
20...	--	--	--	--	--	--	20	4100	--	230
JUL										
18...	.07	.46	.04	.27	<10	<5	<20	5600	<10	--
AUG										
30...	--	--	--	.94	<10	--	40	20000	--	330
SEP										
18...	--	--	--	--	--	--	--	--	--	--
19...	.02	.16	.05	.26	<10	--	<20	2900	--	160

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
03...	--	--	.00	.00	.00	.00	.00	.00	.00	0
04...	--	10	--	--	--	--	--	--	--	--
NOV										
01...	--	<10	--	--	--	--	--	--	--	--
29...	--	80	--	--	--	--	--	--	--	--
JAN										
04...	--	<10	--	--	--	--	--	--	--	--
MAR										
08...	--	150	.00	.00	.00	.00	.00	.00	.00	0
22...	--	10	--	--	--	--	--	--	--	--
APR										
05...	--	60	--	--	--	--	--	--	--	--
25...	--	20	--	--	--	--	--	--	--	--
MAY										
23...	--	30	--	--	--	--	--	--	--	--
JUN										
12...	--	--	.00	.00	.00	.00	.00	.00	.00	0
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
30...	--	50	.00	.00	.00	.00	.00	.00	.14	0
SEP										
18...	--	--	--	--	--	--	--	--	--	--
19...	--	20	.00	.00	.00	.00	.00	.00	.00	0

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

LOCATION.--Lat 35°16'23", long 90°33'33", in NE¼SE¼ sec.33, T.8 N., R.5 E., Cross County, Hydrologic Unit 08020203, at bridge on U.S. Highway 64 at Parkin, 1.1 mi (1.8 km) downstream from Tyronza River, and at mile 102.0 (164.1 km).

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi² (16,770 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1930 to date in reports of Mississippi River Commission. Gage-height records since December 1892 in reports of Mississippi River Commission and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 175.30 ft (53.431 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 10, 1948, nonrecording gage, and Sept. 11, 1948 to Apr. 24, 1968, water-stage recorder, at site 1.8 mi (2.9 km) downstream at present datum.

REMARKS.--The greater part of St. Francis River floodflow is diverted through St. Francis River floodway at lock and dam about 4.0 mi (6.4 km) northwest of Marked Tree, and is not included in records for this station. Diverted flow is included in records for St. Francis Bay at Riverfront and returns to the St. Francis River below Marianna (see station 07047900). Some regulation by Wappapello Lake (Missouri), 207 mi (330 km) upstream since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm³). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--47 years, 2,771 ft³/s (78.5 m³/s), 2,008,000 acre-ft/yr (2,480 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,300 ft³/s (716 m³/s) Jan. 31, 1930; maximum gage height, 34.2 ft (10.42 m) Feb. 4-6, 1937, backwater from Mississippi River; minimum discharge, 174 ft³/s (4.93 m³/s) Nov. 12, 1954.

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

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 5,960 ft³/s (169 m³/s) Mar. 5; gage height, 14.43 ft (4.398 m); minimum, 308 ft³/s (8.72 m³/s) Aug. 14, gage height, 2.30 ft (0.701 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	528	2180	415	349	914	420	1660	1290	662	909	644	1250
2	495	1890	396	335	767	365	1800	1300	775	1270	495	1250
3	476	1570	388	322	742	482	2200	1430	859	1350	457	1250
4	470	1370	381	321	749	3570	3140	1470	1370	1360	455	1260
5	460	1290	372	341	752	5740	3520	1460	1470	1340	431	1260
6	609	1260	372	366	758	5360	3160	1450	924	1340	378	1250
7	1060	1260	372	385	762	3810	2580	1460	629	1330	375	1260
8	1150	1260	401	404	767	2490	2170	1480	541	1310	371	1250
9	1160	1230	430	422	766	1620	1980	1600	451	1270	368	1250
10	1160	1130	462	446	771	1480	1880	1260	412	1400	365	1270
11	1160	793	491	468	775	1530	1800	791	406	1390	348	1240
12	1140	609	520	487	842	3190	1740	852	408	1410	317	1200
13	1130	843	562	505	1670	5540	1610	1260	414	1420	314	1100
14	1110	825	570	527	1620	5820	1530	1370	466	1450	314	941
15	1090	617	566	544	1130	5000	1620	1380	529	1470	421	691
16	1080	519	517	640	815	4080	1660	1370	512	1530	438	496
17	1070	489	482	715	717	3190	1680	1140	504	1440	350	441
18	1060	450	462	712	642	2460	1700	740	523	1350	359	540
19	1010	411	439	710	605	2130	1720	657	609	1300	393	1170
20	982	408	413	685	573	1930	1650	587	896	1260	385	1350
21	923	404	390	614	542	1780	1560	494	844	1250	777	1290
22	876	397	366	566	507	1640	1570	479	722	1230	1140	1220
23	826	390	342	554	495	1510	1590	484	632	1230	1250	1160
24	876	387	341	547	492	1400	1600	538	553	1290	1260	1420
25	1380	387	343	618	479	1400	1610	530	537	1380	1260	2480
26	3420	386	343	986	465	1420	1610	725	664	1340	1260	2340
27	4560	390	344	1610	450	1500	1550	1310	730	1280	1260	2620
28	4070	413	344	2300	436	1580	1480	1460	953	1270	1250	3260
29	2950	429	353	2230	---	1670	1420	1070	842	1210	1250	4040
30	2200	433	361	1600	---	1670	1360	664	707	833	1250	5100
31	2120	---	365	1200	---	1650	---	581	---	673	1240	---
TOTAL	42601	24420	12903	22509	21053	77427	56150	32682	20544	39885	21175	46649
MEAN	1374	814	416	726	752	2498	1872	1054	685	1287	683	1555
MAX	4560	2180	570	2300	1670	5820	3520	1600	1470	1530	1260	5100
MIN	460	386	341	321	436	365	1360	479	406	673	314	441
AC-FT	84500	48440	25590	44650	41760	153600	111400	64820	40750	79110	42000	92530

CAL YR 1976 TOTAL 734458 MEAN 2007 MAX 8530 MIN 341 AC-FT 1457000
WTR YR 1977 TOTAL 417998 MEAN 1145 MAX 5820 MIN 314 AC-FT 829100

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

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

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

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 546 micromhos Oct. 4, 1976; minimum, 46 micromhos Apr. 3, 1975.
WATER TEMPERATURES: Maximum, 33.0°C July 17, 1977, July 30, 1978; minimum, 0.0°C on several days during January 1977, and January 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 486 micromhos Jan. 6; minimum, 70 micromhos May 12.
WATER TEMPERATURES: Maximum, 33.0°C July 30; minimum, 0.0°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
OCT												
11...	1028	1028	273	7.6	17.0	--	7.1	76	K170	6500	130	10
NOV												
10...	1028	1028	379	8.1	15.0	--	8.4	86	K190	360	180	8
DEC												
05...	1028	1028	170	7.4	9.0	--	9.2	82	2600	K86000	74	14
JAN												
04...	1028	1028	493	7.9	4.0	--	11.2	88	K100	350	250	25
FEB												
06...	1028	1028	330	7.8	1.0	--	12.0	87	K22	240	170	18
27...	1028	1028	134	7.5	4.0	--	11.6	91	K44	--	59	11
APR												
05...	1028	1028	391	8.0	21.0	--	7.9	91	K33	K300	180	4
MAY												
02...	1028	1028	410	7.3	17.5	--	7.0	75	300	560	190	10
31...	1028	1028	232	7.5	27.0	800	5.1	65	2500	K800	110	13
JUL												
10...	1028	1028	441	8.2	31.0	85	5.4	73	K100	420	220	26
AUG												
07...	1028	1028	355	7.9	26.0	70	6.5	81	800	360	170	7

DATE	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT											
11...	34	9.7	6.9	10	.3	4.8	140	0	110	5.6	13
NOV											
10...	49	14	9.4	10	.3	3.3	210	0	170	2.7	23
DEC											
05...	20	5.9	3.7	9	.2	4.9	73	0	60	4.6	18
JAN											
04...	69	18	10	8	.3	2.8	270	0	220	5.4	33
FEB											
06...	45	13	9.1	10	.3	2.7	180	0	150	4.6	20
27...	17	4.0	2.6	8	.1	2.2	58	0	48	2.9	13
APR											
05...	49	13	9.8	11	.3	2.9	210	0	170	3.4	22
MAY											
02...	53	14	10	10	.3	2.6	220	0	180	18	21
31...	32	8.1	6.5	11	.3	3.0	--	--	100	--	13
JUL											
10...	60	16	11	10	.3	2.9	--	--	190	--	29
AUG											
07...	47	12	7.8	9	.3	2.8	--	--	160	--	14

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT												
11...	8.6	.1	16	160	162	.22	.22	.06	--	--	--	.94
NOV												
10...	9.9	.2	16	224	228	.30	.12	.01	--	--	--	.62
DEC												
05...	4.3	.1	8.7	118	102	.16	.88	.27	--	--	--	.89
JAN												
04...	6.4	.1	23	292	297	.40	.28	.13	--	--	--	.76
FEB												
06...	8.2	.1	16	197	203	.27	.40	.09	.24	.33	--	--
27...	2.6	.1	6.6	79	77	.11	1.1	.08	.73	.81	--	--
APR												
05...	9.0	.2	17	221	227	.30	.11	.03	.79	.82	.44	.38
MAY												
02...	10	.2	17	240	236	.33	.32	.03	1.3	1.3	.89	.41
31...	6.2	.2	11	141	140	.19	1.1	.04	--	--	--	.95
JUL												
10...	7.0	.2	20	265	261	.36	.24	.03	1.2	1.2	--	--
AUG												
07...	4.1	.2	17	211	201	.29	.29	.03	.77	.80	.34	.46

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)
OCT												
11...	--	--	.26	.12	4	2	2	400	300	100	<10	<10
NOV												
10...	--	--	.21	.10	--	--	--	--	--	--	--	--
DEC												
05...	--	--	.81	.12	--	--	--	--	--	--	--	--
JAN												
04...	--	--	.16	.05	3	2	1	400	400	0	1	0
FEB												
06...	.73	3.2	.18	.08	--	--	--	--	--	--	--	--
27...	1.9	8.5	.31	.05	--	--	--	--	--	--	--	--
APR												
05...	.93	4.1	.28	.10	4	2	2	200	0	200	2	0
MAY												
02...	1.6	7.2	.44	.10	--	--	--	--	--	--	--	--
31...	--	--	1.2	.10	--	--	--	--	--	--	--	--
JUL												
10...	1.4	6.4	.42	.16	6	2	4	500	100	400	2	0
AUG												
07...	1.1	4.8	.24	.09	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)
OCT												
11...	0	10	10	0	<50	<50	0	10	0	10	2800	60
NOV												
10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	1	0	0	0	0	0	0	23	16	7	1800	1100
FEB												
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
05...	2	0	0	0	1	1	0	12	7	5	3800	60
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	2	20	10	10	2	1	1	17	10	7	6400	40
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV, (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)
OCT											
11...	<100	<100	0	250	240	20	.0	.0	.0	0	0
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	8	4	4	280	80	200	.0	.0	.0	0	0
FEB											
06...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	5	4	1	230	210	20	.0	.0	.0	0	0
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	9	9	0	330	320	10	.1	.0	.1	0	0
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG) (01076)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	PCB, TOTAL (UG/L) (39516)
OCT											
11...	0	<10	<10	0	20	10	10	--	6.4	1.7	--
NOV											
10...	--	--	--	--	--	--	--	3.9	--	--	ND
DEC											
05...	--	--	--	--	--	--	--	17	--	--	--
JAN											
04...	0	0	0	0	30	10	20	--	2.5	.7	--
FEB											
06...	--	--	--	--	--	--	--	4.5	--	--	ND
27...	--	--	--	--	--	--	--	6.0	--	--	--
APR											
05...	0	0	0	0	20	10	10	5.1	--	--	--
MAY											
02...	--	--	--	--	--	--	--	10	--	--	ND
31...	--	--	--	--	--	--	--	30	--	--	--
JUL											
10...	0	0	0	0	30	20	10	7.5	--	--	--
AUG											
07...	--	--	--	--	--	--	--	8.7	--	--	ND

DATE	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	ATRAZINE, TOTAL (UG/L) (39630)	CHLORDANE, TOTAL (UG/L) (39350)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL (UG/L) (39360)	P,P' DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39311)	DDE, TOTAL (UG/L) (39365)	P,P' DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39321)	DDT, TOTAL (UG/L) (39370)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
10...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
DEC												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
06...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	ND	ND	ND	ND	ND	ND	ND	1.1	ND	.6	ND	ND
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
10...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
DEC												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
06...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL (UG/L) (39540)
OCT											
11...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
06...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
07...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL COULSON COND. (UG/L) (39025)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
11...	--	--	--	--	--	--	--	--	--	97	97
NOV											
10...	--	ND	ND	--	ND	--	ND	ND	ND	99	97
DEC											
05...	--	--	--	--	--	--	--	--	--	794	100
JAN											
04...	--	--	--	--	--	--	--	--	--	172	24
FEB											
06...	--	ND	ND	--	ND	--	ND	ND	ND	174	36
27...	--	--	--	--	--	--	--	--	--	155	92
APR											
05...	--	--	--	--	--	--	--	--	--	114	97
MAY											
02...	ND	ND	ND	ND	ND	ND	--	--	--	298	95
31...	--	--	--	--	--	--	--	--	--	931	97
AUG											
07...	--	ND	ND	--	ND	--	--	--	--	158	88

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

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

PHYTOPLANKTON

DATE	NOV 10,77	MAY 31,78	JUL 10,78
TIME	1145	1600	1200
TOTAL CELLS/ML	12000	240	52000
DIVERSITY: DIVISION	1.7	0.9	0.9
.CLASS	1.7	0.9	0.9
..ORDER	1.9	1.6	1.3
...FAMILY	2.8	2.0	1.8
....GENUS	3.2	2.3	1.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	11	5	--	-
...COELASTRACEAE						
....COELASTRUM	610	5	--	-	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	640	5	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	980	8	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	150	1	--	-	480	1
....DICTYOSPHAERIUM	910	8	--	-	--	-
....TETRAEDRON	--	-	--	-	*	0
...SCENEDESMACEAE						
....CRUCIGENIA	490	4	--	-	--	-
....SCENEDESMUS	550	5	67#	29	1100	2
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	360	1
...VOLVOCACEAE						
....EUDORINA	--	-	--	-	1900	4
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	980	8	56#	24	*	0
....MELOSIRA	3300#	27	22	10	2700	5
....STEPHANODISCUS	--	-	--	-	*	0
..PENNALES						
...FRAGILARIACEAE						
....SYNEDRA	61	1	--	-	--	-
...NAVICULACEAE						
....NAVICULA	61	1	67#	29	*	0
...NITZSCHIACEAE						
....NITZSCHIA	270	2	11	5	780	2
.XANTHOPHYCEAE						
..HETEROCOCCALES						
...CENTRITRACTACEAE						
....CENTRITRACTUS	--	-	--	-	*	0
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONIDALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	61	1	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROCCOCCALES						
...CHROCCOCCACEAE						
....ANACYSTIS	61	1	--	-	2200	4
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	2200	4
....ANABAENOPSIS	--	-	--	-	3000	6
...OSCILLATORIACEAE						
....OSCILLATORIA	2500#	21	--	-	36000#	69
..CHROCCOCCALES						
...CHROCCOCCACEAE						
....GOMPHOSPHAERIA	240	2	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	61	1	--	-	*	0
....TRACHELOMONAS	61	1	--	-	600	1

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	351	152	482	211	143	354	405	221	390	409	97
2	137	358	160	476	248	148	366	406	257	403	436	84
3	146	359	162	478	284	128	376	367	208	384	440	89
4	153	367	182	480	312	102	385	340	231	452	445	97
5	161	382	182	486	341	115	386	393	236	421	440	111
6	160	392	142	485	350	111	400	348	258	397	300	129
7	172	384	139	482	375	113	402	138	269	425	338	148
8	211	392	145	153	391	152	404	318	288	458	361	187
9	237	389	179	112	392	149	406	86	189	458	264	230
10	251	388	192	115	396	174	415	79	310	425	277	277
11	278	394	254	177	438	193	403	74	137	383	305	307
12	299	392	285	172	401	199	396	70	136	278	394	332
13	317	402	356	172	264	247	392	78	154	263	406	359
14	331	389	202	190	147	207	309	90	166	208	399	96
15	357	367	184	205	131	167	342	108	160	134	254	103
16	365	353	184	225	162	177	293	136	371	136	249	118
17	354	330	201	216	118	180	281	176	326	133	132	99
18	361	310	204	190	102	210	302	212	417	160	139	102
19	377	338	257	188	113	272	362	277	440	188	255	127
20	383	354	272	224	145	285	283	286	450	223	310	162
21	343	255	299	252	173	317	260	304	448	248	341	200
22	348	194	330	264	148	349	256	278	368	255	364	235
23	328	160	363	330	200	391	248	293	222	319	391	292
24	317	181	387	241	233	421	259	332	238	330	417	271
25	322	167	416	152	216	306	305	348	308	349	433	302
26	409	179	421	106	166	318	351	348	301	371	454	349
27	290	207	437	102	138	327	379	346	344	395	460	396
28	308	230	451	109	148	335	389	308	418	413	463	427
29	333	228	464	99	---	349	403	353	384	408	466	422
30	348	195	475	137	---	361	425	348	395	385	187	394
31	340	---	481	176	---	353	---	229	---	417	128	---
MEAN	286	313	276	248	241	235	351	254	288	329	344	218

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	19.0	6.0	6.0	1.5	5.0	17.5	20.0	27.5	32.0	30.5	22.5
2	23.0	18.5	7.0	4.0	2.0	4.0	17.5	18.5	26.5	31.0	29.5	23.0
3	22.0	17.5	7.5	4.0	3.0	3.5	18.0	18.0	27.0	30.0	30.5	24.0
4	22.5	18.0	8.0	4.0	3.0	1.5	19.0	16.0	26.0	32.0	28.0	25.0
5	21.5	18.5	8.5	5.0	3.5	2.0	20.0	17.0	27.0	32.5	28.0	25.0
6	21.0	18.5	7.0	7.0	1.5	3.0	20.5	16.5	26.0	32.5	27.0	26.0
7	20.5	18.5	5.5	8.0	1.0	4.5	21.0	18.0	24.5	32.0	26.0	27.0
8	20.0	17.5	5.0	10.5	.5	5.0	22.5	20.5	24.5	31.0	26.0	27.0
9	19.5	17.5	4.0	6.5	.5	5.0	24.0	20.5	24.0	31.5	26.5	29.5
10	19.0	15.5	4.5	5.0	.5	6.5	23.0	21.5	26.0	31.0	27.0	27.5
11	18.5	14.5	3.5	1.5	2.0	7.5	20.5	22.0	26.5	29.5	27.5	27.0
12	17.5	13.0	4.0	1.5	2.5	7.5	20.0	22.0	26.5	28.5	29.0	25.5
13	17.0	12.0	5.5	1.0	3.0	6.5	19.0	21.0	26.0	28.5	27.0	25.5
14	16.5	12.0	5.0	1.0	1.5	9.0	19.0	21.0	24.5	28.0	27.5	23.0
15	16.0	12.0	7.0	.5	2.0	9.0	18.5	20.0	27.5	28.0	24.5	24.0
16	16.0	12.5	7.5	1.0	2.0	10.5	19.0	20.0	28.0	28.5	26.5	25.0
17	14.0	13.0	8.5	.5	2.0	10.5	18.0	19.5	26.5	28.0	26.5	27.5
18	14.0	12.5	10.0	.5	2.0	9.5	19.5	20.0	27.5	28.5	27.5	25.5
19	14.0	12.5	10.5	.0	2.0	12.0	18.0	20.0	26.5	29.0	31.0	26.0
20	14.0	13.0	9.5	.0	3.0	12.0	16.0	21.0	27.0	30.0	30.5	26.5
21	14.0	11.5	7.0	.0	3.0	13.0	16.0	23.0	25.5	30.5	29.0	27.0
22	17.0	10.0	6.0	1.5	5.5	13.5	16.0	23.5	27.0	31.5	28.0	24.0
23	17.0	10.0	6.5	1.5	3.5	16.0	18.0	24.0	26.5	31.0	28.0	24.5
24	16.5	10.0	8.0	2.0	4.5	16.0	17.0	25.0	28.0	30.0	29.0	25.0
25	17.5	10.5	6.5	1.5	5.5	13.0	18.0	26.0	30.5	31.5	30.0	24.0
26	18.5	8.5	6.0	.5	6.0	11.5	17.5	27.0	30.5	31.5	31.0	22.5
27	18.0	7.5	4.0	.5	5.0	11.5	18.0	27.5	32.0	30.0	30.5	23.0
28	18.0	7.5	4.5	.5	4.5	12.0	18.0	27.5	31.0	30.5	28.0	22.5
29	18.0	6.0	3.5	1.0	---	14.0	19.0	27.5	30.0	32.0	27.5	21.5
30	19.0	5.5	4.5	1.0	---	15.0	21.0	27.0	30.0	33.0	26.5	23.5
31	19.0	---	5.5	1.0	---	16.5	---	27.0	---	30.5	26.5	---
MEAN	18.0	13.0	6.5	2.5	2.5	9.0	19.0	22.0	27.0	30.5	28.0	25.0

07047810 ST. FRANCIS RIVER FLOODWAY NEAR MARKED TREE, AR

LOCATION.--Lat 35°32'15", long 90°29'05", in SE¼NE¼ sec.31, T.11 N., R.6 E., Poinsett County, Hydrologic Unit 08020203, at bridge on U.S. Highway 63, 3.6 mi (5.79 km) northwest of Marked Tree.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLE SOURCE (72005)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT											
04...	1028	1028	67	5150	122	7.4	17.5	.21	5.8	434	6040
04...	1028	1028	68	1870	--	--	17.5	.24	--	135	682
NOV											
01...	1028	1028	67	302	294	8.5	18.5	.40	8.9	143	117
DEC											
06...	1028	1028	67	3430	288	7.0	6.0	.30	11.0	167	1550
06...	1028	1028	68	860	--	--	6.0	.24	--	283	657
JAN											
11...	1028	1028	67	4420	--	7.4	.0	.49	12.2	171	2040
11...	1028	1028	68	1250	--	--	.0	.46	--	168	567
FEB											
16...	1028	1028	67	5250	163	6.5	1.0	.25	12.2	288	4080
16...	1028	1028	68	1730	--	--	1.5	.25	--	324	1510
MAR											
14...	1028	1028	67	6500	129	6.1	8.0	.18	9.5	189	3320
14...	1028	1028	68	15000	--	--	8.5	.23	--	117	4740
APR											
05...	1028	1028	67	5740	197	7.4	21.0	.38	7.3	190	2950
05...	1028	1028	68	2700	--	--	21.5	.44	--	388	2830
MAY											
03...	1028	1028	67	1680	271	7.5	15.0	.30	8.8	213	966
03...	1028	1028	68	255	--	--	15.5	.23	--	187	129
JUN											
06...	1028	1028	67	2400	268	7.6	25.0	--	6.2	302	1960
06...	1028	1028	68	840	--	--	25.5	--	--	344	780
JUL											
19...	1028	1028	67	2150	168	8.0	27.0	.28	6.1	220	1280
19...	1028	1028	68	627	--	--	28.0	.18	--	173	293
AUG											
10...	1028	1028	67	434	240	7.7	26.0	.24	7.6	96	112
SEP											
06...	1028	1028	67	3100	162	8.0	20.0	.15	6.9	164	1370
06...	1028	1028	68	1740	--	--	20.5	.10	--	114	536

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)
OCT											
04...	--	100	100	59	33	19	--	--	--	--	--
04...	--	--	100	87	70	56	--	--	--	--	--
NOV											
01...	100	98	78	50	37	33	--	--	--	--	--
DEC											
06...	--	100	92	75	65	62	--	--	--	--	--
06...	--	--	--	--	--	--	100	98	84	74	61
JAN											
11...	--	100	99	98	96	93	--	--	--	--	--
11...	--	--	100	98	96	94	--	--	--	--	--
FEB											
16...	--	--	--	--	--	--	--	100	79	62	52
16...	--	--	--	--	--	--	100	93	56	47	43
MAR											
14...	--	--	--	--	--	--	100	94	66	48	45
14...	--	100	97	91	85	84	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	100	79	33	27
05...	--	--	--	--	--	--	100	99	80	51	41
MAY											
03...	--	100	98	67	46	39	--	--	--	--	--
03...	--	100	93	61	55	54	--	--	--	--	--
JUN											
06...	--	--	100	94	87	86	--	--	--	--	--
06...	--	--	100	94	82	78	--	--	--	--	--
JUL											
19...	--	100	99	93	86	85	--	--	--	--	--
19...	--	100	99	95	92	91	--	--	--	--	--
AUG											
10...	--	100	98	93	87	82	--	--	--	--	--
SEP											
06...	--	100	99	94	84	80	--	--	--	--	--
06...	--	100	99	97	96	94	--	--	--	--	--

07047810 ST. FRANCIS RIVER FLOODWAY NEAR MARKED TREE, AR—CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT											
04...	--	--	--	--	--	--	100	98	64	2	0
04...	--	--	99	98	98	97	--	93	22	11	8
NOV											
01...	--	--	--	--	--	--	100	99	55	9	2
DEC											
06...	100	98	97	95	94	94	--	92	46	3	2
06...	--	--	--	--	--	--	100	100	98	96	93
JAN											
11...	--	--	--	--	--	--	99	86	18	3	3
11...	--	--	--	--	--	--	100	98	30	6	6
FEB											
16...	--	--	--	--	--	--	98	79	8	0	0
16...	--	100	98	--	97	--	97	95	82	75	70
MAR											
14...	--	--	--	--	--	--	100	98	37	0	0
14...	--	--	--	--	--	--	100	96	74	66	64
APR											
05...	--	--	--	--	--	--	100	92	37	2	1
05...	--	--	--	--	--	--	100	89	23	9	8
MAY											
03...	--	--	--	--	--	--	97	87	14	0	0
03...	--	--	--	--	--	--	100	95	50	6	2
JUN											
06...	--	--	--	--	--	--	100	96	30	0	0
06...	--	--	--	--	--	--	100	100	46	2	0
JUL											
19...	--	--	--	--	--	--	97	87	45	3	2
19...	--	--	--	--	--	--	100	94	41	8	6
AUG											
10...	--	--	--	--	--	--	100	99	75	7	1
SEP											
06...	--	--	--	--	--	--	98	90	54	11	7
06...	--	--	--	--	--	--	97	80	27	4	2

07047815 CROSS COUNTY DITCH NEAR BIRDEYE, AR

LOCATION.--Lat 35°21'38", long 90°39'00", in NE¼SE¼ sec.34, T.9 N., R.4 E., Cross County, Hydrologic Unit 08020203, at bridge on State Highway 42, 2.3 mi (3.70 km) east of Birdeye.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT												
03...	1028	1028	6780	20.5	.27	594	10900	--	--	100	87	78
NOV												
01...	1028	1028	447	18.5	.61	121	146	--	100	95	73	56
DEC												
06...	1028	1028	4030	6.0	.34	651	7080	--	--	--	--	--
JAN												
11...	1028	1028	5330	-.5	.30	248	3570	100	99	98	95	89
FEB												
16...	1028	1028	6090	1.0	.15	809	13300	--	--	--	--	--
MAR												
14...	1028	1028	16000	--	.13	541	23400	--	--	--	--	--
APR												
05...	1028	1028	7970	20.5	.58	2150	46300	--	--	--	--	--
MAY												
03...	1028	1028	1740	14.0	.38	223	1050	--	100	99	92	86
JUN												
06...	1028	1028	3080	25.5	--	550	4570	--	--	100	90	70
JUL												
19...	1028	1028	2620	27.0	.30	407	2880	--	--	--	--	--
AUG												
10...	1028	1028	1150	26.5	.40	91	283	--	100	97	96	92
SEP												
06...	1028	1028	3770	20.0	.13	236	2400	--	100	100	95	79

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT											
03...	58	--	--	--	--	--	100	96	21	2	1
NOV											
01...	45	--	--	--	--	--	100	96	34	14	4
DEC											
06...	--	100	94	47	27	20	100	97	33	4	0
JAN											
11...	83	--	--	--	--	--	--	--	--	--	--
FEB											
16...	--	--	100	89	62	46	100	99	66	2	1
MAR											
14...	--	100	96	81	49	38	100	98	55	2	0
APR											
05...	--	--	100	74	7	6	92	92	46	3	1
MAY											
03...	82	--	--	--	--	--	100	98	75	3	1
JUN											
06...	65	--	--	--	--	--	100	99	79	6	1
JUL											
19...	--	--	100	81	57	52	96	89	35	1	1
AUG											
10...	89	--	--	--	--	--	100	96	27	0	0
SEP											
06...	67	--	--	--	--	--	100	97	50	2	0

07047882 STRAIGHT SLOUGH NEAR BIRDEYE, AR

LOCATION.--Lat 35°21'45", long 90°39'26", in NE¼SW¼ sec.34, T.9 N., R.4 E., Cross County, Hydrologic Unit 08020203, at bridge on State Highway 42, 1.8 mi (2.90 km) east of Birdeye.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
OCT											
03...	1028	1028	213	267	8.0	19.0	.40	8.1	506	291	--
NOV											
01...	1028	1028	105	430	8.5	18.0	.40	9.9	68	19	--
DEC											
06...	1028	1028	1280	158	7.2	6.0	.30	10.4	705	2440	100
JAN											
11...	1028	1028	350	--	7.2	.0	.30	11.0	256	242	--
FEB											
16...	1028	1028	1040	112	7.3	1.0	.20	12.3	648	1820	--
MAR											
14...	1028	1028	3370	220	7.1	10.5	.15	8.7	949	8640	--
MAY											
03...	1028	1028	452	275	8.1	13.0	.20	8.4	962	1170	--
JUN											
06...	1028	1028	392	411	7.8	23.5	--	6.8	181	192	--
JUL											
19...	1028	1028	--	413	8.1	26.0	--	6.9	--	--	--
AUG											
10...	1028	1028	150	420	8.3	25.0	.43	8.1	59	24	--
SEP											
06...	1028	1028	296	331	8.4	19.0	.30	7.7	38	30	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
OCT											
03...	--	100	93	65	53	--	--	--	--	--	--
NOV											
01...	100	100	91	82	77	--	--	--	--	--	100
DEC											
06...	100	99	95	85	82	--	--	--	--	--	--
JAN											
11...	--	--	100	99	99	--	--	--	--	--	--
FEB											
16...	--	--	--	--	--	100	96	64	38	30	--
MAR											
14...	100	100	98	97	97	--	--	--	--	--	--
MAY											
03...	--	100	98	94	93	--	--	--	--	--	--
JUN											
06...	--	100	89	73	71	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	100	95	90	83	78	--	--	--	--	--	--
SEP											
06...	100	98	94	85	75	--	--	--	--	--	--

07047882 STRAIGHT SLOUGH NEAR BIRDEYE, AR—CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT										
03...	--	--	--	--	--	--	100	88	9	5
NOV										
01...	83	57	48	45	--	44	40	33	13	11
DEC										
06...	--	--	--	--	--	98	92	29	8	7
JAN										
11...	--	--	--	--	--	99	94	43	3	2
FEB										
16...	--	--	--	--	--	100	98	84	2	1
MAR										
14...	--	--	--	--	--	100	98	60	3	3
MAY										
03...	100	100	96	91	88	--	83	71	5	3
JUN										
06...	--	--	--	--	--	100	98	84	4	2
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	--	--	--	--	--	100	98	80	25	21
SEP										
06...	--	--	--	--	--	99	96	27	1	1

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR

LOCATION.--Lat 35°15'34", long 90°40'48", in W½ sec.4, T.7 N., R.4 E., Cross County, Hydrologic Unit 08020203, at bridge on U.S. Highway 64 at Riverfront, 7.0 mi (11.3 km) west of Parkin.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1935 to date in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 171.25 ft (52.197 m) 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 (6.4 km) northwest of Marked Tree (see station 07047800). Some regulation by Wappapello Lake (Missouri) since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm^3). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

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

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

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 15,800 ft^3/s (447 m^3/s) Apr. 10; maximum gage height, 22.38 ft (6.821 m) Apr. 9; minimum daily discharge observed, 199 ft^3/s (5.64 m^3/s) Oct. 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	514	642	1100	1310	1440	1840	6860	7570	3490	2230	1510	357
2	600	544	834	1180	1330	1830	7560	7210	2400	2260	1340	336
3	738	409	792	1250	1270	2520	8520	6890	1230	2370	1030	327
4	840	338	936	1780	1390	7440	10100	6670	3060	2440	957	412
5	822	315	834	1660	1460	7420	11600	6420	2900	2500	1630	449
6	495	304	870	1470	1620	6600	12900	6180	2640	2570	1680	376
7	409	405	936	1450	1730	6470	14500	6060	2350	2810	920	316
8	390	672	990	1420	1660	6220	15400	6000	2190	2920	621	282
9	375	972	948	1420	1600	5800	15800	6120	2020	2620	666	270
10	364	636	846	1370	1430	5280	15600	6420	1880	2500	1060	274
11	352	390	1010	1350	1420	5120	15000	6180	1930	2760	930	279
12	338	720	1540	1410	1880	6930	14100	5550	1880	2580	685	294
13	326	702	1930	1420	2280	7470	13000	4910	1760	1920	848	385
14	311	804	1920	1360	1870	6190	11700	4430	1740	2280	1090	656
15	270	876	---	1200	1770	6260	10500	4090	2700	2250	1220	1180
16	202	636	---	1240	1690	6340	9530	4030	2230	1980	1220	1610
17	199	386	---	1230	1580	6490	8770	4080	2030	1880	1300	2500
18	210	562	---	1240	1390	6620	8210	3970	2520	1790	1460	2560
19	240	912	---	1240	1410	6600	7840	3650	3160	1650	1980	1940
20	308	708	---	1240	1460	6290	7480	3270	3050	1470	1890	1260
21	308	846	---	1240	1500	5810	7180	2960	2620	1500	1530	902
22	308	852	---	1280	1530	5290	7050	2720	2540	853	1230	831
23	315	846	900	1340	1550	4840	7760	2730	2420	951	887	709
24	472	1340	924	1180	1430	4050	8120	3640	2380	926	603	1150
25	2530	1250	1030	1200	1840	3800	7830	4430	2620	966	522	2890
26	3270	900	1250	1560	1900	4000	8050	4210	2310	787	477	3130
27	1540	1060	1140	1880	1890	4220	8060	3690	2660	530	448	4270
28	960	798	1130	1980	1860	5510	7940	3830	2940	456	429	4870
29	570	1050	1140	1820	---	5200	7870	3980	3160	427	401	5710
30	612	1580	1310	1700	---	5380	7840	3890	2800	1420	380	6910
31	720	---	1500	1520	---	6110	---	3730	---	1790	375	---
TOTAL	19908	22455	---	43940	45180	169940	302670	149510	73610	56386	31319	47435
MEAN	642	749	---	1417	1614	5482	10090	4823	2454	1819	1010	1581
MAX	3270	1580	---	1980	2280	7470	15800	7570	3490	2920	1980	6910
MIN	199	304	---	1180	1270	1830	6860	2720	1230	427	375	270
AC-FT	39490	44540	---	87150	89610	337100	600300	296600	146000	111800	62120	94090

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

WATER-QUALITY RECORDS

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 482 micromhos Dec. 1, 1977; minimum, 58 micromhos Jan. 25, 1978.
WATER TEMPERATURES: Maximum, 32.5°C July 16, 18, 22, Sept. 1, 1977; minimum, 0.0°C on several days during January 1977, and January 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 443 micromhos Sept. 29; minimum, 58 micromhos Jan. 25, 1978.
WATER TEMPERATURES: Maximum, 32.5°C July 4; minimum, 0.0°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
OCT											
03...	1028	1028	5680	135	7.7	20.5	--	.15	6.0	--	--
11...	1028	1028	--	175	7.8	16.5	--	--	8.1	86	K170
NOV											
01...	1028	1028	514	328	8.2	18.0	--	.46	8.5	--	--
10...	1028	1028	--	360	8.4	13.0	--	--	10.2	100	K44
DEC											
05...	1028	1028	--	240	7.7	9.0	--	--	9.6	86	730
05...	1028	1028	5180	252	7.2	8.5	--	.30	10.1	--	--
JAN											
04...	1028	1028	--	218	7.7	2.5	--	--	12.6	95	<33
11...	1028	1028	5720	--	7.3	.0	--	.43	12.4	--	--
FEB											
06...	1028	1028	--	321	7.8	.5	--	--	12.0	86	<11
15...	1028	1028	6740	242	7.6	1.0	--	.20	11.6	--	--
27...	1028	1028	--	--	--	--	--	--	--	--	--
27...	1028	1028	--	184	7.7	4.5	--	--	11.0	88	K67
MAR											
13...	1028	1028	17100	107	6.4	6.5	--	.18	10.2	--	--
APR											
05...	1028	1028	8800	196	7.4	20.0	--	--	7.5	--	--
05...	1028	1028	--	215	7.8	21.0	--	--	7.0	80	<11
MAY											
02...	1028	1028	4920	273	7.5	17.0	--	.30	8.0	--	--
03...	1028	1028	--	272	7.9	14.0	--	--	7.9	79	700
31...	1028	1028	--	297	7.4	27.0	290	--	6.6	84	830
JUN											
05...	1028	1028	3570	276	8.0	27.5	--	--	6.9	--	--
JUL											
10...	1028	1028	--	373	8.2	30.0	75	--	7.0	93	K40
18...	1028	1028	3080	186	8.3	29.0	--	.18	7.0	--	--
AUG											
07...	1028	1028	--	--	--	--	--	--	--	--	--
07...	1028	1028	--	297	5.6	26.5	65	--	8.3	105	K160
09...	1028	1028	1100	302	8.3	27.5	--	.36	9.7	--	--
SEP											
05...	1028	1028	5340	150	8.1	21.0	--	.18	6.1	--	--

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR—CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
11...	K300	78	7	20	6.8	3.8	9	.2	3.2	86
NOV										
01...	--	--	--	--	--	--	--	--	--	--
10...	K48	180	1	47	14	8.3	9	.3	2.4	210
DEC										
05...	K16000	100	11	26	8.7	6.4	12	.3	3.8	110
05...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	150	100	24	27	8.7	5.7	10	.2	2.2	97
11...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	K40	160	16	41	13	7.8	10	.3	2.2	170
15...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	820	89	13	24	7.1	5.2	11	.2	2.3	93
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
05...	--	--	--	--	--	--	--	--	--	--
05...	K64	94	12	24	8.2	4.9	10	.2	2.3	100
MAY										
02...	--	--	--	--	--	--	--	--	--	--
03...	1500	130	8	36	10	6.4	9	.2	2.2	150
31...	680	140	6	38	10	13	17	.5	3.8	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	K33	160	0	44	13	13	14	.4	4.7	--
18...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	K140	130	11	36	10	8.6	12	.3	2.4	--
09...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

DATE	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
11...	0	71	2.2	7.9	4.1	.1	12	101	101	.14
NOV										
01...	--	--	--	--	--	--	--	--	--	--
10...	1	170	1.4	15	5.0	.1	17	208	213	.28
DEC										
05...	0	90	3.5	17	8.4	.1	10	151	135	.21
05...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	0	80	3.1	19	9.0	.1	12	135	132	.18
11...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	0	140	4.3	15	7.3	.1	15	181	185	.25
15...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	0	76	3.0	12	5.8	.1	8.2	113	111	.15
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
05...	--	--	--	--	--	--	--	--	--	--
05...	0	82	2.5	13	5.6	.1	6.3	112	114	.15
MAY										
02...	--	--	--	--	--	--	--	--	--	--
03...	0	120	3.0	14	6.5	.1	11	160	160	.22
31...	--	130	--	14	9.0	.2	12	174	178	.24
JUN										
05...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	--	170	--	15	11	.2	18	232	222	.32
18...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	120	--	14	8.0	.2	13	172	164	.23
09...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)
OCT										
11...	.06	.06	--	--	--	1.2	--	--	.19	.07
NOV										
10...	.01	.00	--	--	--	.56	--	--	.17	.08
DEC										
05...	.50	.18	--	--	--	.61	--	--	.33	.09
JAN										
04...	.26	.04	--	--	--	.26	--	--	.10	.03
FEB										
06...	.20	.04	1.2	1.2	.50	.70	1.4	6.2	.11	.04
27...	.71	.22	.55	.77	.12	.65	1.5	6.6	.23	.04
APR										
05...	.02	.01	.81	.82	.35	.47	.84	3.7	.13	.02
MAY										
03...	.33	.03	1.2	1.2	.81	.39	1.5	6.8	.45	.09
31...	.71	.37	--	--	--	.52	--	--	.68	.07
JUL										
10...	.14	.07	.76	.83	.47	.36	.97	4.3	.26	.14
AUG										
07...	.13	.03	.65	.68	.30	.38	.81	3.6	.18	.08

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
OCT										
11...	2	1	1	200	100	100	<10	<9	1	20
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	1	0	1	100	0	100	2	0	2	0
FEB										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
05...	2	0	2	100	0	100	1	0	1	0
MAY										
03...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	4	0	4	500	100	400	1	0	1	20
AUG										
07...	--	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)
OCT										
11...	0	20	<50	<50	0	10	1	9	2800	--
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	0	0	0	0	0	33	22	11	1900	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
05...	0	0	1	0	1	19	9	10	2200	--
MAY										
03...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	10	10	1	1	0	11	1	10	4800	4700
AUG										
07...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
OCT										
11...	80	<100	<100	0	200	180	20	.0	.0	.0
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	70	19	17	2	70	40	30	.0	.0	.0
FEB										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
05...	40	10	8	2	130	120	10	.0	.0	.0
MAY										
03...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	70	11	11	0	330	300	30	.0	.0	.0
AUG										
07...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG) (01076)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
11...	0	0	0	<10	<10	0	20	0	20	--
NOV										
10...	--	--	--	--	--	--	--	--	--	6.2
DEC										
05...	--	--	--	--	--	--	--	--	--	8.0
JAN										
04...	0	0	0	1	1	0	30	10	20	--
FEB										
06...	--	--	--	--	--	--	--	--	--	3.2
27...	--	--	--	--	--	--	--	--	--	6.1
APR										
05...	0	0	0	0	0	0	20	0	20	--
MAY										
03...	--	--	--	--	--	--	--	--	--	9.2
31...	--	--	--	--	--	--	--	--	--	13
JUL										
10...	0	0	0	0	0	0	30	0	30	6.3
AUG										
07...	--	--	--	--	--	--	--	--	--	5.2

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	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. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT										
03...	--	--	496	7610	--	--	--	--	72	90
11...	6.1	1.1	120	--	--	--	--	--	74	--
NOV										
01...	--	--	87	121	--	--	--	--	56	67
10...	--	--	56	--	--	--	--	--	93	--
DEC										
05...	--	--	307	--	--	--	--	--	71	--
05...	--	--	285	3990	--	--	--	--	74	86
JAN										
04...	4.0	.5	136	--	--	--	--	--	32	--
11...	--	--	302	4660	72	87	99	100	--	--
FEB										
06...	--	--	96	--	--	--	--	--	43	--
15...	--	--	736	13400	59	69	94	100	--	--
27...	--	--	239	--	--	--	--	--	59	--
MAR										
13...	--	--	444	20500	50	68	91	100	--	--
APR										
05...	--	--	217	5160	42	50	84	100	--	--
05...	--	--	88	--	--	--	--	--	75	--
MAY										
02...	--	--	494	6560	--	--	--	--	85	90
03...	--	--	420	--	--	--	--	--	98	--
31...	--	--	487	--	--	--	--	--	88	--
JUN										
05...	--	--	495	4770	--	--	--	--	66	72
JUL										
18...	--	--	875	7280	29	33	69	100	--	--
AUG										
07...	--	--	139	--	--	--	--	--	72	--
09...	--	--	173	514	--	--	--	--	66	77
SEP										
05...	--	--	321	4630	60	74	96	100	--	--

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	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									
03...	96	100	--	--	1	2	34	99	100
11...	--	--	--	--	--	--	--	--	--
NOV									
01...	88	97	100	--	4	4	52	99	100
10...	--	--	--	--	--	--	--	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
05...	95	100	100	--	0	0	23	97	99
JAN									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	10	35	91	100	--
FEB									
06...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	2	4	25	99	100
27...	--	--	--	--	--	--	--	--	--
MAR									
13...	--	--	--	--	1	3	25	95	100
APR									
05...	--	--	--	--	4	11	59	93	99
05...	--	--	--	--	--	--	--	--	--
MAY									
02...	98	100	--	--	1	3	50	94	97
03...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
JUN									
05...	93	100	100	--	1	5	66	96	100
JUL									
18...	--	--	--	--	0	2	51	98	100
AUG									
07...	--	--	--	--	--	--	--	--	--
09...	93	99	100	100	1	4	44	99	100
SEP									
05...	--	--	--	--	1	4	51	99	100

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

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

PHYTOPLANKTON

DATE TIME	NOV 10,77 1415		APR 5,78 1400		MAY 31,78 1400		JUL 10,78 1330		AUG 7,78 1530	
TOTAL CELLS/ML	130000		3900		5800		53000		41000	
DIVERSITY: DIVISION	1.4		1.5		1.7		0.8		1.1	
.CLASS	1.4		1.5		1.7		0.8		1.1	
..ORDER	1.4		1.9		2.0		1.5		1.7	
...FAMILY	2.2		2.8		2.0		1.9		2.4	
....GENUS	2.8		3.7		2.4		2.6		3.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	770	1	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	1300	3
...MICRACTINIACEAE										
....GOLENKINIA	2300	2	61	2	--	-	--	-	--	-
....MICRACTINIUM	10000	8	480	13	--	-	680	1	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	4400	3	230	6	--	-	490	1	*	0
....CHODATELLA	*	0	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	4600	4	410	11	--	-	--	-	1300	3
....KIRCHNERIELLA	--	-	45	1	--	-	*	0	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	*	0
....SELENASTRUM	960	1	--	-	--	-	--	-	440	1
...SCENEDESMACEAE										
....ACTINASTRUM	34000#	26	120	3	210	4	970	2	--	-
....CRUCIGENIA	3800	3	--	-	--	-	580	1	*	0
....SCENEDESMUS	8800	7	560	14	1200#	20	2100	4	2500	6
....TETRASTRUM	770	1	120	3	--	-	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	*	0	--	-	--	-	--	-	220	1
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	*	0	--	-
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	880	2
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	*	0	--	-	290	1	*	0
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	--	-	61	2	--	-	--	-	500	1
....POLYEDRIOPSIS	*	0	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	*	0	91	2	240	4	*	0	1000	2
....MELOSIRA	16000	13	380	10	2400#	42	1200	2	1800	4
..PENNALES										
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	210	5	--	-	--	-	--	-
....SYNEDRA	--	-	410	11	89	2	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	*	0	30	1	--	-	--	-
...NAVICULACEAE										
....NAVICULA	*	0	--	-	30	1	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	*	0	--	-
...NITZSCHIACEAE										
....NITZSCHIA	770	1	30	1	30	1	390	1	*	0
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	*	0	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	*	0
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	*	0	--	-	--	-	--	-	--	-

NOTE: 0 - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYLTOPLANKTON

DATE / TIME	NOV 10,77 1415		APR 5,78 1400		MAY 31,78 1400		JUL 10,78 1330		AUG 7,78 1530	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	1600	3	1800	4
....ANACYSTIS	40000#	31	510	13	210	4	7800	15	3200	8
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	830	2	1300	3
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	7100	13	9500#	23
....OSCILLATORIA	*	0	--	-	1200#	20	26000#	50	13000#	31
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	1600	3	1800	4
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	*	0	*	0	120	2	*	0	*	0
....PHACUS	--	-	*	0	--	-	--	-	--	-
....TRACHELOMONAS	*	0	91	2	89	2	390	1	--	-

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
JAN. 4	30	2.91	2.20	.710	.150	.000	4.73	POLYETHYLENE STRIP
FEB. 27	21	.079	.000	.079	.000	.000	--	POLYETHYLENE STRIP
AUG. 7	28	49.5	39.0	10.5	42.9	10.2	.245	POLYETHYLENE STRIP

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	353	191	186	230	157	197	259	242	162	385	165
2	134	359	196	187	270	152	194	273	251	382	393	163
3	132	347	234	191	282	165	204	266	---	378	388	136
4	136	344	239	189	306	124	206	215	272	390	385	144
5	136	340	231	195	310	135	213	296	270	385	336	143
6	132	333	216	195	323	134	218	272	285	369	292	166
7	134	338	251	191	337	133	223	78	304	396	288	195
8	139	344	245	152	337	140	228	78	300	416	303	203
9	159	356	235	---	355	146	225	108	316	374	352	219
10	177	361	227	147	376	140	226	132	313	382	344	223
11	186	354	241	176	372	128	214	162	229	327	418	255
12	213	348	213	152	387	121	186	179	247	365	293	271
13	246	342	219	149	119	121	186	210	269	220	398	295
14	256	337	165	160	69	149	192	255	320	176	393	85
15	254	341	202	162	185	127	225	277	364	187	231	103
16	261	313	188	166	150	147	232	268	406	170	259	159
17	257	316	166	190	146	135	246	281	391	199	256	240
18	265	264	160	152	158	127	256	294	419	210	250	231
19	274	209	163	137	178	120	222	318	385	217	299	282
20	276	257	170	158	168	122	197	165	386	226	322	304
21	286	250	184	175	188	126	221	270	204	225	352	---
22	307	198	187	175	196	134	222	302	202	220	379	358
23	259	206	192	217	219	149	267	333	280	240	419	346
24	277	200	193	193	198	155	272	342	318	250	420	390
25	326	247	193	58	168	163	249	320	322	277	416	397
26	370	234	205	71	200	167	276	322	335	320	410	407
27	348	255	203	117	206	193	284	321	322	395	419	402
28	300	274	212	144	183	194	286	318	326	388	441	405
29	313	264	221	152	---	198	344	340	324	328	430	443
30	334	223	220	171	---	194	313	339	347	364	106	412
31	349	---	226	193	---	192	---	292	---	384	136	---
MEAN	238	297	206	163	236	148	234	254	309	301	339	260

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	18.5	5.5	4.0	1.5	4.5	17.0	20.0	27.0	32.0	31.5	22.5
2	23.0	17.5	6.0	3.5	1.5	3.5	17.5	17.5	26.0	32.0	31.0	24.0
3	22.0	18.0	8.0	3.0	1.0	2.5	18.0	17.5	27.0	30.5	31.0	24.5
4	22.0	18.5	8.0	2.5	1.5	2.0	19.5	15.0	27.5	32.5	28.5	25.5
5	20.0	18.5	8.5	3.0	3.0	2.5	20.0	16.0	28.0	30.5	27.5	25.5
6	19.0	18.5	---	3.5	1.0	3.0	21.0	16.0	25.5	30.0	28.0	25.0
7	19.0	18.0	3.5	6.0	1.0	4.0	20.5	17.5	25.5	29.5	26.5	25.5
8	19.0	17.0	5.0	---	.5	4.5	22.5	20.0	24.0	31.0	26.5	26.5
9	20.0	17.0	2.5	4.0	.5	3.5	23.5	20.0	24.0	31.5	27.0	29.5
10	19.0	13.5	4.0	2.0	.5	4.5	23.0	21.5	25.5	30.5	27.5	28.0
11	17.5	9.5	2.5	.0	2.5	5.5	21.0	22.0	26.0	28.0	27.5	27.0
12	17.0	11.0	2.5	.5	2.5	5.5	19.0	21.5	25.5	29.0	28.0	25.5
13	17.0	13.0	3.5	1.0	2.5	5.5	18.0	20.5	25.0	28.0	27.0	26.0
14	17.0	9.5	8.0	1.0	1.5	7.5	19.0	21.0	25.0	27.5	24.5	23.5
15	16.0	11.0	7.0	.5	2.0	8.0	19.5	19.5	26.5	29.0	24.0	24.5
16	14.5	14.0	8.0	.5	2.5	7.5	19.0	19.5	27.0	29.0	26.0	26.0
17	16.0	13.5	8.0	.0	2.0	8.5	18.5	19.0	26.0	28.0	26.0	28.0
18	13.5	11.5	8.5	.5	2.0	7.0	19.5	19.0	27.0	28.0	26.5	25.5
19	13.5	11.5	9.5	.0	2.0	10.5	18.0	20.0	27.0	28.5	31.0	26.5
20	13.5	12.5	8.0	.0	1.5	11.5	16.0	21.0	26.5	29.0	30.0	26.5
21	14.0	12.0	6.0	.0	2.5	12.5	15.5	23.0	26.0	29.5	29.0	---
22	17.5	10.5	5.0	1.0	2.0	13.0	15.0	24.0	27.5	31.0	29.0	23.5
23	18.0	10.5	5.5	2.0	3.5	14.5	18.0	23.5	27.5	30.0	29.0	24.5
24	17.0	10.5	5.5	3.0	5.0	14.5	17.0	24.5	27.0	28.0	30.0	24.0
25	17.0	8.5	5.0	1.0	5.5	11.5	18.0	25.5	32.0	28.5	30.5	21.5
26	18.0	10.5	5.5	1.0	5.5	10.0	16.5	26.0	29.0	29.0	31.0	22.0
27	17.0	8.0	4.5	1.0	5.0	10.0	16.5	27.0	31.5	28.0	30.0	21.5
28	17.5	5.5	3.0	1.0	5.0	11.0	18.0	27.0	32.0	29.0	27.5	21.5
29	17.5	6.0	2.5	1.5	---	13.5	18.0	28.0	30.0	31.5	27.0	20.5
30	20.0	5.0	3.0	1.0	---	15.0	21.5	27.5	30.0	32.0	26.5	24.5
31	19.5	---	3.5	1.5	---	16.0	---	27.0	---	31.0	26.0	---
MEAN	18.0	12.5	5.5	1.5	2.5	8.0	19.0	21.5	27.0	29.5	28.0	25.0

07047902 ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, AR

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

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

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1935 to December 1949 in files of Corps of Engineers, Memphis district. January 1950 to date in reports of Mississippi River Commission.

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

COOPERATION.--Records furnished by Corps of Engineers.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 74,100 ft^3/s (2,100 m^3/s) Feb. 2, 1937; minimum daily, 250 ft^3/s (7.08 m^3/s) Nov.17, 1940.

EXTREMES FOR WATER YEAR 1977.--Maximum daily discharge observed, 17,800 ft^3/s (504 m^3/s) Apr. 9; minimum daily observed, 880 ft^3/s (24.9 m^3/s).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	2820	1520	1660	2350	2260	8520	8860	4150	3140	2150	1600
2	1100	2430	1230	1520	2100	2200	9360	8500	3170	3530	1830	1580
3	1210	1980	1180	1560	2010	3000	10700	8320	2090	3720	1490	1580
4	1310	1710	1320	2110	2140	11000	13200	8140	4430	3800	1410	1670
5	1280	1600	1210	2000	2220	13200	15100	7880	4370	3850	2060	1710
6	1100	1560	1240	1840	2370	12000	16100	7630	3560	3910	2060	1620
7	1470	1660	1310	1830	2490	10300	17100	7520	2980	4140	1300	1570
8	1540	1930	1390	1820	2420	8710	17600	7480	2730	4230	990	1530
9	1540	2200	1380	1840	2370	7420	17800	7720	2480	3890	1030	1520
10	1520	1770	1310	1810	2200	6760	17400	7680	2290	3900	1420	1550
11	1510	1180	1500	1810	2200	6650	16800	6970	2330	4150	1280	1520
12	1480	1330	2060	1900	2770	10100	15800	6400	2280	3990	1000	1500
13	1460	1540	2490	1930	3950	13000	14700	6180	2180	3340	1160	1490
14	1420	1630	2490	1890	3490	12000	13300	5800	2210	3730	1400	1600
15	1360	1490	---	1740	2910	11300	12200	5470	3230	3720	1640	1880
16	1280	1160	---	1880	2510	10400	11200	5410	2740	3500	1650	2110
17	1270	880	---	1940	2300	9680	10500	5220	2530	3320	1650	2940
18	1270	1010	---	1950	2040	9080	9920	4710	3040	3140	1820	3100
19	1250	1320	---	1950	2010	8730	9560	4310	3770	2950	2370	3110
20	1290	1120	---	1920	2030	8220	9130	3860	3950	2740	2280	2610
21	1230	1250	---	1860	2040	7590	8740	3450	3460	2760	2310	2190
22	1180	1250	---	1840	2040	6930	8620	3200	3270	2090	2370	2050
23	1140	1240	1240	1890	2040	6360	9360	3210	3050	2180	2140	1870
24	1350	1730	1270	1720	1930	5450	9720	4180	2930	2220	1860	2570
25	3910	1640	1370	1820	2320	5200	9430	4960	3160	2340	1780	5380
26	6690	1290	1590	2550	2370	5420	9670	4940	2980	2130	1740	5470
27	6100	1450	1480	3490	2340	5720	9610	5000	3400	1810	1710	6890
28	5030	1210	1470	4280	2300	7090	9430	5290	3900	1720	1680	8130
29	3520	1480	1490	4050	---	6880	9290	5050	4000	1640	1650	9750
30	2810	2010	1670	3300	---	7050	9200	4550	3510	2250	1630	12000
31	2840	---	1860	2720	---	7750	---	4320	---	2460	1620	---
TOTAL	62500	46870	---	66440	66260	247450	359060	182210	94170	96290	52480	94090
MEAN	2016	1562	---	2143	2366	7982	11970	5878	3139	3106	1693	3136
MAX	6690	2820	---	4280	3950	13200	17800	8860	4430	4230	2370	12000
MIN	1040	880	---	1520	1930	2200	8520	3200	2090	1640	990	1490
AC-FT	124000	92970	---	131800	131400	490800	712200	361400	186800	191000	104100	186600

07047904 CLARK CORNER CUTOFF NEAR COLT, AR

LOCATION.--Lat 35°08'41", long 90°39'23", in NW¼NE¼ sec.15, T.6 N., R.4 E., St. Francis County, Hydrologic Unit 08020203, at bridge on Old Military Road 9.0 mi (14.5 km) east of Colt.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (M) (00078)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT												
03...	1028	1028	7120	20.0	.18	553	10600	--	--	100	98	89
31...	1028	1028	589	19.5	.49	71	113	--	100	95	88	83
DEC												
05...	1028	1028	5230	9.0	.36	306	4320	--	100	97	92	84
JAN												
10...	1028	1028	6860	1.5	.30	327	6060	--	--	100	99	94
FEB												
15...	1028	1028	7400	1.5	.30	985	19700	--	--	--	--	--
MAR												
13...	1028	1028	17000	6.0	.20	588	27000	--	--	--	--	--
APR												
04...	1028	1028	9050	20.8	.38	254	6210	--	--	--	--	--
MAY												
02...	1028	1028	4730	17.5	.36	421	5380	--	--	100	99	98
JUN												
05...	1028	1028	4150	26.5	--	444	4980	--	100	99	87	79
JUL												
18...	1028	1028	3700	27.5	.10	279	2790	--	100	98	93	92
AUG												
09...	1028	1028	1240	27.0	.21	204	683	100	100	100	98	92
SEP												
05...	1028	1028	6350	21.0	.13	267	4580	--	100	100	98	90

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT											
03...	76	--	--	--	--	--	--	--	--	--	--
31...	66	--	--	--	--	--	100	99	89	33	4
DEC											
05...	75	--	--	--	--	--	100	100	83	19	3
JAN											
10...	82	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	100	90	77	65	--	--	--	--	--
MAR											
13...	--	--	100	76	59	47	--	--	--	--	--
APR											
04...	--	100	96	59	44	43	99	76	1	0	0
MAY											
02...	94	--	--	--	--	--	--	--	--	--	--
JUN											
05...	74	--	--	--	--	--	98	67	3	0	0
JUL											
18...	87	--	--	--	--	--	100	97	57	20	2
AUG											
09...	84	--	--	--	--	--	100	95	60	19	3
SEP											
05...	79	--	--	--	--	--	100	99	85	34	8

07047907 ST. FRANCIS RIVER AT MADISON, AR

LOCATION.--Lat 35°00'38", long 90°43'05", in NE¼SW¼ 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 September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	OXYGEN, DIS-SOLVED (MG/L) (00300)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT									
03...	1028	1028	7120	139	7.5	20.0	.15	6.1	444
31...	1028	1028	737	319	8.0	20.0	.40	8.2	68
DEC									
05...	1028	1028	4860	253	7.1	8.0	.30	10.3	215
JAN									
10...	1028	1028	6400	200	7.3	2.0	.36	11.6	237
FEB									
15...	1028	1028	5280	140	7.1	1.0	.30	11.4	480
MAR									
13...	1028	1028	13600	112	6.4	6.0	.20	10.5	633
APR									
04...	1028	1028	8680	181	7.3	19.0	.33	7.9	632
MAY									
02...	1028	1028	4860	327	8.2	17.0	.30	8.0	535
JUN									
05...	1028	1028	4100	282	7.5	26.0	--	6.2	345
JUL									
18...	1028	1028	3660	175	8.0	28.0	.20	6.5	273
AUG									
09...	1028	1028	1280	290	8.3	28.0	.23	9.4	110
SEP									
05...	1028	1028	5580	153	7.9	21.0	.15	6.6	292

DATE	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)
OCT									
03...	8540	100	98	94	95	92	85	--	--
31...	135	--	100	99	93	87	79	--	--
DEC									
05...	2820	--	100	99	96	91	87	--	--
JAN									
10...	4100	--	--	100	98	95	84	--	--
FEB									
15...	6840	--	--	--	--	--	--	--	100
MAR									
13...	23200	--	--	--	--	--	--	100	100
APR									
04...	14800	--	--	--	--	--	--	--	100
MAY									
02...	7020	--	100	100	99	98	97	--	--
JUN									
05...	3820	--	--	100	99	99	98	--	--
JUL									
18...	2700	--	100	100	98	96	91	--	--
AUG									
09...	380	--	100	99	95	89	84	--	--
SEP									
05...	4400	--	100	99	97	91	82	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT								
03...	--	--	--	100	91	10	2	2
31...	--	--	--	100	94	39	21	13
DEC								
05...	--	--	--	100	62	10	4	2
JAN								
10...	--	--	--	98	59	4	1	0
FEB								
15...	84	76	64	98	74	8	2	1
MAR								
13...	62	48	38	100	97	70	27	18
APR								
04...	95	86	70	100	93	20	2	1
MAY								
02...	--	--	--	98	87	27	12	5
JUN								
05...	--	--	--	98	84	16	4	3
JUL								
18...	--	--	--	98	87	25	5	1
AUG								
09...	--	--	--	100	92	58	18	2
SEP								
05...	--	--	--	100	96	34	4	1

07047942 L'ANGUILLE RIVER NEAR COLT, AR

LOCATION.--Lat 35°08'40", long 90°52'42", in NE¼NW¼ sec.15, T.6 N., R.2 E., St. Francis County, Hydrologic Unit 08020205, near center of span on downstream side of bridge on State Highway 306, 1.1 mi (1.8 km) downstream from Lick Creek, 3.9 mi (6.3 km) northwest of Colt, and at mile 52.8 (85.0 km).

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 192.52 ft (58.680 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for days of no gage-height record, which are poor.

AVERAGE DISCHARGE.--8 years, 731 ft^3/s (20.7 m^3/s), 18.56 in/yr (471 mm/yr), 529,600 acre-ft/yr (653 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft^3/s (323 m^3/s) Apr. 23, 1973, gage height, 15.75 ft (4.801 m), from rating curve extended above 6,100 ft^3/s (173 m^3/s); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Oct. 27, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,440 ft^3/s (239 m^3/s) Sept. 17, gage height, 15.21 ft (4.636 m); minimum daily, 13 ft^3/s (0.40 m^3/s) Apr. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	16	675	106	1830	1100	216	641	99	525	35	1520
2	2630	27	710	82	1570	1370	149	541	380	464	35	2380
3	2410	57	760	53	1340	2070	108	620	387	401	35	2650
4	2070	60	770	36	1120	2030	78	702	360	339	35	2650
5	1740	49	780	25	908	2070	62	655	372	277	35	2530
6	1490	78	780	37	800	1920	41	663	397	185	30	2350
7	1320	113	765	93	720	1880	26	2710	610	132	35	2120
8	1170	107	765	2190	620	1910	19	3840	664	128	55	1800
9	1020	90	765	2400	550	1880	16	4040	765	136	100	1520
10	885	71	765	2130	500	1870	13	3600	920	166	145	1270
11	761	56	765	1860	470	1740	19	3170	1140	200	165	1080
12	673	41	780	1540	440	1550	40	2890	1100	227	190	951
13	597	30	825	1200	800	1450	161	2670	916	226	225	874
14	522	21	856	928	900	1720	289	2330	832	211	285	992
15	432	14	846	810	1310	1650	316	1960	758	210	325	2280
16	347	110	900	780	1750	1610	308	1610	685	205	355	6490
17	263	246	984	1450	1890	1470	289	1330	646	202	365	8250
18	183	220	959	1700	1880	1260	269	1060	700	196	365	7540
19	111	224	896	1800	1700	1100	232	862	865	183	360	6220
20	65	231	844	1900	1510	959	322	791	704	158	350	5140
21	39	725	800	1630	1440	884	421	728	624	118	340	4220
22	29	771	755	1200	1290	836	434	681	551	78	325	3370
23	25	682	697	840	1200	791	448	637	509	51	295	2910
24	23	680	656	1390	1140	755	432	590	646	32	265	2600
25	21	662	601	2910	1120	700	446	537	625	23	259	2350
26	21	614	535	3220	1160	655	437	480	665	25	238	2090
27	19	595	462	3090	1150	601	405	412	697	27	216	1750
28	18	595	385	2950	1160	538	355	339	683	28	194	1460
29	16	620	309	2780	---	463	292	269	642	30	245	1190
30	15	650	237	2500	---	384	229	227	584	35	637	959
31	14	---	163	2180	---	305	---	163	---	35	803	---
TOTAL	21829	8455	21790	45810	32268	39521	6872	41748	19526	5253	7342	83506
MEAN	704	282	703	1478	1152	1275	229	1347	651	169	237	2784
MAX	2900	771	984	3220	1890	2070	448	4040	1140	525	803	8250
MIN	14	14	163	25	440	305	13	163	99	23	30	874
CFSM	1.32	.53	1.31	2.76	2.15	2.38	.43	2.52	1.22	.32	.44	5.20
IN.	1.52	.59	1.52	3.19	2.24	2.75	.48	2.90	1.36	.37	.51	5.81
AC-FT	43300	16770	43220	90860	64000	78390	13630	82810	38730	10420	14560	165600

CAL YR 1977 TOTAL 156316.7 MEAN 428 MAX 3270 MIN 9.7 CFSM .80 IN 10.87 AC-FT 310100
WTR YR 1978 TOTAL 333920.0 MEAN 915 MAX 8250 MIN 13 CFSM 1.71 IN 23.22 AC-FT 662300

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

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)
OCT										
12...	1028	1028	684	225	7.3	14.5	4.5	46	35	--
NOV										
01...	1028	--	13	--	--	18.5	--	--	--	--
11...	1028	1028	58	150	7.4	11.0	7.2	67	44	--
DEC										
06...	1028	1028	--	--	--	--	--	--	--	--
06...	1028	1028	1350	152	7.0	6.0	7.0	58	61	--
14...	1028	--	840	--	--	7.0	--	--	--	--
JAN										
05...	1028	1028	26	226	7.2	5.0	10.0	81	--	42
FEB										
07...	1028	1028	767	92	7.2	.5	10.8	77	--	22
28...	1028	1028	1160	95	7.2	5.0	10.5	85	--	--
MAR										
06...	1028	--	1970	--	--	8.0	--	--	--	--
APR										
06...	1028	1028	81	190	7.6	23.0	8.5	101	45	--
19...	1028	--	237	--	--	17.0	--	--	--	--
MAY										
03...	1028	1028	589	90	7.4	13.0	7.4	73	75	--
30...	1028	--	228	--	--	25.0	--	--	--	--
JUN										
01...	1028	1028	104	143	7.4	26.0	3.7	46	--	46
JUL										
11...	1028	1028	197	331	7.7	28.0	4.3	55	--	37
14...	1028	--	218	--	--	28.5	--	--	--	--
AUG										
08...	1028	1028	67	491	--	24.5	5.5	67	--	37
21...	1028	1028	--	--	--	24.0	5.7	70	--	--
22...	1028	1028	--	--	--	22.0	5.3	62	--	--
22...	1028	1028	--	--	--	24.0	5.2	63	--	--
22...	1028	1028	296	490	7.3	23.5	5.2	63	--	--
25...	1028	--	265	--	--	27.5	--	--	--	--
SEP										
19...	1028	--	6140	--	--	26.5	--	--	--	--

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, BIOCHEM ULT. CARBONACEOUS (MG/L) (00320)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
OCT										
12...	4.7	--	--	K67	580	91	1	23	8.1	8.0
NOV										
01...	--	--	--	--	--	--	--	--	--	--
11...	4.9	--	--	430	480	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
06...	3.3	--	--	2100	12000	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	3.4	--	--	K230	310	--	--	--	--	--
FEB										
07...	1.2	--	--	<7	K40	--	--	--	--	--
28...	2.4	--	--	K33	140	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
06...	4.4	--	--	K17	370	73	3	19	6.2	7.9
19...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	4.4	--	--	5000	5700	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	3.9	--	--	1100	700	--	--	--	--	--
JUL										
11...	3.4	--	--	K200	520	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	3.2	--	--	380	840	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	4.0	8.5	K900	K100	550	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT										
12...	14	.4	9.6	110	0	90	7.9	5.6	11	.1
NOV										
01...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
06...	18	.4	2.5	85	0	70	3.4	11	7.9	.2
19...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	210	--	18	17	.2
25...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	--	--	--	--	--	--	--	--	--	--

DATE	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 AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)
OCT										
12...	20	144	140	.20	266	--	--	.05	--	--
NOV										
01...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	.27	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	.39	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	.22	--	--
FEB										
07...	--	--	--	--	--	--	--	.28	--	--
28...	--	--	--	--	--	--	--	.46	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
06...	6.7	105	103	.14	23.0	--	--	.23	--	--
19...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	--	--	--	--	--	--	--	.68	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	--	--	--	--	--	--	.00	.32	--	--
JUL										
11...	--	--	--	--	--	--	--	.31	--	--
14...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	.40	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	23	--	--	--	--	.11	.01	.12	.05	1.3
25...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)
OCT										
12...	.70	.75	3.3	.20	--	3	1	2	<10	<10
NOV										
01...	--	--	--	--	--	--	--	--	--	--
11...	1.3	1.6	7.0	.26	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
06...	1.5	1.9	8.4	.28	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	1.2	1.4	6.3	.26	--	--	--	--	--	--
FEB										
07...	.42	.70	3.1	.12	--	--	--	--	--	--
28...	.70	1.2	5.1	.13	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
06...	1.9	2.1	9.4	.40	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	2.8	3.5	15	.75	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	1.5	1.8	8.1	.46	--	--	--	--	--	--
JUL										
11...	1.7	2.0	8.9	.24	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	.91	1.3	5.8	.18	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	1.3	1.4	6.3	.22	.11	4	--	--	0	--
25...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	--	--	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT										
12...	0	20	0	20	<50	<50	0	<10	<4	6
JAN										
05...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	10	--	--	--	--	--	17	--	--

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)
OCT										
12...	1300	300	<100	<100	0	600	340	260	.0	.0
JAN										
05...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
22...	4000	--	0	--	--	900	--	--	.0	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, DIS-SOLVED (UG/L) (39517)	PCB, SUS-PENDED TOTAL (UG/L) (39518)
OCT										
12...	.0	0	0	0	50	0	20	10	--	--
JAN										
05...	--	--	--	--	--	--	--	11	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	0	--	--	50	--	--	--	.0	.0

DATE	PCB, TOTAL (UG/L) (39516)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	NAPH-THA-LENES, POLY-CHLOR, TOTAL (UG/L) (39250)	ALDRIN, DIS-SOLVED (UG/L) (39331)	ALDRIN, SUS-PENDED TOTAL (UG/L) (39332)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE, DIS-SOLVED (UG/L) (39352)	CHLOR-DANE, SUS-PENDED TOTAL (UG/L) (39353)	CHLOR-DANE, TOTAL (UG/L) (39350)
OCT										
12...	.0	0	.00	--	--	.00	2.1	--	--	.0
JAN										
05...	.0	1	.00	--	--	.00	2.0	--	--	.0
APR										
06...	.0	1	.00	--	--	.00	.7	--	--	.0
JUL										
11...	.0	3	.00	--	--	.00	1.4	--	--	.0
AUG										
08...	.0	--	.00	--	--	.00	--	--	--	.0
22...	.0	1	.00	.00	.00	.00	.7	.0	.0	.0

DATE	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39351)	DDD, DIS-SOLVED (UG/L) (39361)	DDD, SUS-PENDED TOTAL (UG/L) (39362)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39363)	DDE, DIS-SOLVED (UG/L) (39366)	DDE, SUS-PENDED TOTAL (UG/L) (39367)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39368)	DDT, DIS-SOLVED (UG/L) (39371)
OCT										
12...	0	--	--	.00	.0	--	--	.00	39	--
JAN										
05...	0	--	--	.00	35	--	--	.00	33	--
APR										
06...	0	--	--	.00	9.6	--	--	.00	6.8	--
JUL										
11...	0	--	--	.00	33	--	--	.00	36	--
AUG										
08...	--	--	--	.00	--	--	--	.00	--	--
22...	0	.00	.00	.00	18	.00	.00	.00	15	.00

DATE	DDT, SUS-PENDED TOTAL (UG/L) (39372)	DDT, TOTAL (UG/L) (39370)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39373)	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DI-ELDRIN, SUS-PENDED TOTAL (UG/L) (39382)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39383)	ENDO-SULFAN, TOTAL (UG/L) (39388)
OCT										
12...	--	.00	9.6	.00	.0	--	--	.00	4.1	--
JAN										
05...	--	.00	110	.00	.0	--	--	.01	2.5	--
APR										
06...	--	.00	3.3	.00	.0	--	--	.01	3.4	--
JUL										
11...	--	.00	5.3	.00	.0	--	--	.01	7.7	.00
AUG										
08...	--	.00	--	.00	--	--	--	.01	--	.00
22...	.00	.00	5.8	--	--	.01	.00	.01	4.1	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ENDRIN, DIS-SOLVED (UG/L) (39391)	ENDRIN, SUS-PENDED TOTAL (UG/L) (39392)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR, DIS-SOLVED (UG/L) (39411)	HEPTA-CHLOR, SUS-PENDED TOTAL (UG/L) (39412)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39413)
OCT										
12...	--	--	.00	1.0	.00	.0	--	--	.00	.0
JAN										
05...	--	--	.00	.4	.00	.0	--	--	.00	.0
APR										
06...	--	--	.00	.3	.00	.0	--	--	.00	.0
JUL										
11...	--	--	.00	.6	.00	.0	--	--	.00	.0
AUG										
08...	--	--	.00	--	.00	--	--	--	.00	--
22...	.00	.00	.00	.0	--	--	.00	.00	.00	.0

DATE	HEPTA-CHLOR EPOXIDE DIS-SOLVED (UG/L) (39421)	HEPTA-CHLOR EPOXIDE SUS-PENDED TOTAL (UG/L) (39422)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE DIS-SOLVED (UG/L) (39341)	LINDANE SUS-PENDED TOTAL (UG/L) (39342)	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39343)	MALA-THION, TOTAL (UG/L) (39530)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39531)
OCT										
12...	--	--	.00	.3	--	--	.00	.2	.00	.0
JAN										
05...	--	--	.00	.0	--	--	.00	.0	.00	.0
APR										
06...	--	--	.00	.0	--	--	.00	.0	.00	.0
JUL										
11...	--	--	.00	.0	--	--	.00	.0	.00	.0
AUG										
08...	--	--	.00	--	--	--	.00	--	.00	--
22...	.00	.00	.00	.0	.00	.00	.00	.0	--	--

DATE	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRI-THION, TOTAL (UG/L) (39790)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	MIREX, DIS-SOLVED (UG/L) (39756)	MIREX, SUS-PENDED TOTAL (UG/L) (39757)	MIREX, TOTAL (UG/L) (39755)	PARA-THION, TOTAL (UG/L) (39540)
OCT										
12...	.00	.0	.00	.0	.00	.0	--	--	.00	.00
JAN										
05...	.00	.0	.00	.0	.00	.0	--	--	.00	.00
APR										
06...	.00	.0	.00	.0	.00	.0	--	--	.00	.00
JUL										
11...	.00	.0	.25	.0	.00	.0	--	--	.00	.00
AUG										
08...	.00	--	.04	--	.00	--	--	--	.00	.00
22...	--	--	--	--	--	--	.00	.00	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	TOXAPHENE, DISSOLVED (UG/L) (39401)	TOXAPHENE, SUSPENDED TOTAL (UG/L) (39402)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, DISSOLVED (UG/L) (39732)	2,4-D, SUSPENDED TOTAL (UG/L) (39733)	2,4-D, TOTAL (UG/L) (39730)
OCT										
12...	.0	--	--	0	0	.00	.0	--	--	.04
JAN										
05...	.0	--	--	0	0	.00	.0	--	--	.00
APR										
06...	.0	--	--	0	44	.00	.0	--	--	.04
JUL										
11...	.0	--	--	0	45	.00	.0	--	--	.00
AUG										
08...	--	--	--	0	--	.00	--	--	--	.47
22...	--	0	0	0	0	--	--	.26	.00	.26

DATE	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG) (39731)	2,4,5-T DISSOLVED (UG/L) (39742)	2,4,5-T SUSPENDED TOTAL (UG/L) (39743)	2,4,5-T TOTAL (UG/L) (39740)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG) (39741)	SILVEX, DISSOLVED (UG/L) (39762)	SILVEX, SUSPENDED TOTAL (UG/L) (39763)	SILVEX, TOTAL (UG/L) (39760)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG) (39761)
OCT									
12...	--	--	--	.03	--	--	--	.00	--
JAN									
05...	--	--	--	.02	--	--	--	.00	--
APR									
06...	--	--	--	.01	--	--	--	.00	--
JUL									
11...	--	--	--	.51	--	--	--	.01	--
AUG									
08...	--	--	--	1.0	--	--	--	.03	--
22...	0	.55	.00	.55	0	.02	.00	.02	.0

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

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

PHYTOPLANKTON

DATE	OCT 12,77
TIME	0830
TOTAL CELLS/ML	950
DIVERSITY: DIVISION	1.6
.CLASS	1.7
..ORDER	2.2
...FAMILY	2.5
....GENUS	2.9

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	110	11
....CHLORELLA	27	3
....KIRCHNERIELLA	7	1
....OOCYSTIS	7	1
...SCENEDESMACEAE		
....CRUCIGENIA	110	11
....SCENEDESMUS	13	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	27	3
..PENNALES		
...NAVICULACEAE		
....DIPLONEIS	13	1
....NAVICULA	13	1
...NITZSCHIACEAE		
....NITZSCHIA	7	1
...SURIRELLACEAE		
....SURIRELLA	7	1
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....CHRYSOCOCCUS	7	1
....KEPHYRION	7	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	7	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCCOCCALES		
...CHROCCOCCACEAE		
....ANACYSTIS	130	14
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	400#	43
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....STROMBOMONAS	7	1
....EUGLENA	7	1
....PHACUS	7	1
....TRACHELOMONAS	27	3
PYRRHOPHYTA (FIRE ALGAE)		
.DINOPHYCEAE		
..PERIDINIALES		
...PERIDINIACEAE		
....PERIDINIUM	7	1

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

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

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

PERIPHYTON

	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
DEC. 6	25	.157	.079	.078	.000	.000	--	POLYETHYLENE STRIP

07047950 L'ANGUILLE RIVER AT PALESTINE, AR

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

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

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1949 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 166.68 ft (50.804 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 1, 1949, nonrecording gage. Prior to Jan. 1, 1952, datum of gage was 0.32 ft (0.098 m) below National Geodetic Vertical Datum.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--28 years, 1,161 ft^3/s (32.9 m^3/s), 841,100 acre-ft/yr (1,040 hm^3/yr).

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

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

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 2,870 ft^3/s (813 m^3/s) Sept. 30, gage height, 22.88 ft (6.974 m); minimum daily discharge, 1.0 ft^3/s (0.03 m^3/s) Oct. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	852	176	47	568	313	542	364	180	762	700	675
2	54	893	152	47	578	285	542	362	170	758	453	568
3	50	925	128	47	605	343	573	353	145	665	324	469
4	44	933	104	44	593	1070	696	331	120	568	282	375
5	36	910	85	28	504	1400	807	286	110	461	260	343
6	34	883	76	30	457	1640	852	230	100	357	240	641
7	32	863	73	32	431	1810	854	170	90	285	220	610
8	29	848	84	36	421	1890	774	250	90	238	210	529
9	23	824	109	45	416	1920	665	370	90	236	200	462
10	19	789	134	46	408	2060	575	460	82	505	195	371
11	15	739	159	46	390	2230	453	350	72	772	194	315
12	12	700	185	45	502	2610	348	220	59	965	198	258
13	9.0	636	214	44	655	2810	269	150	56	1040	218	216
14	6.0	549	252	375	774	2790	216	100	53	1030	259	629
15	6.0	432	266	443	850	2760	186	80	51	903	373	803
16	6.0	293	265	467	1010	2700	168	65	71	636	431	856
17	3.0	187	261	469	1030	2550	124	70	117	371	522	871
18	1.0	119	249	470	968	2360	90	85	153	256	646	866
19	3.0	78	225	470	893	2130	84	100	200	200	786	807
20	5.0	59	191	369	842	1890	230	105	235	253	918	672
21	4.0	47	154	271	793	1750	163	85	242	364	978	564
22	3.0	40	125	262	717	1590	153	60	255	352	998	467
23	11	35	101	253	629	1420	177	45	257	298	1020	365
24	26	30	86	239	553	1220	241	35	244	265	1020	344
25	88	26	80	245	480	1070	331	30	226	252	1030	933
26	254	34	78	314	421	943	298	85	203	303	1030	1060
27	409	56	77	366	366	812	278	115	199	294	1020	1230
28	527	116	72	426	347	696	303	140	391	727	1010	1400
29	624	180	62	447	---	632	341	160	578	1010	968	1640
30	735	194	54	448	---	580	357	180	690	1030	898	2360
31	807	---	49	482	---	553	---	185	---	945	778	---
TOTAL	3934.0	13270	4326	7353	17201	48827	11690	5621	5529	17101	18379	21699
MEAN	127	442	140	237	614	1575	390	181	184	552	593	723
MAX	807	933	266	482	1030	2810	854	460	690	1040	1030	2360
MIN	1.0	26	49	28	347	285	84	30	51	200	194	216
AC-FT	7800	26320	8580	14580	34120	96850	23190	11150	10970	33920	36450	43040

CAL YR 1976 TOTAL 304533.0 MEAN 832 MAX 4270 MIN 1.0 AC-FT 604000
WTR YR 1977 TOTAL 174930.0 MEAN 479 MAX 2810 MIN 1.0 AC-FT 347000

07047964 L'ANGUILLE RIVER AT MARIANNA, AR

LOCATION.--Lat 34°47'12", long 90°45'00", in SE¼ sec.11, T.2 N., R.3 E., Lee County, Hydrologic Unit 08020205, at bridge on U.S. Highway 79, 1.0 mi (1.6 km) northeast of Marianna.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	287	7.4	16.0	40	5.3	53	3.3	170	120
NOV											
21...	9827	9827	173	7.0	11.0	100	6.2	56	>6.2	30000	--
DEC											
19...	9827	9827	144	7.3	9.0	150	8.3	72	1.6	120	--
JAN											
23...	9827	9827	92	6.7	2.0	150	11.3	82	2.8	120	25
FEB											
21...	9827	9827	82	7.1	1.0	--	12.5	88	3.2	64	--
MAR											
20...	9827	9827	100	7.1	11.0	150	8.8	79	2.2	20	--
APR											
17...	9827	9827	162	6.9	18.0	90	2.4	25	>2.4	80	48
MAY											
15...	9827	9827	59	6.6	19.0	200	6.2	66	2.9	280	--
JUN											
12...	9827	9827	139	7.2	24.0	150	5.3	62	2.5	150	--
JUL											
11...	9827	9827	295	7.9	28.0	40	4.0	51	2.2	--	110
AUG											
14...	9827	9827	453	7.9	26.0	20	6.0	73	3.1	730	--
SEP											
11...	9827	9827	219	7.3	24.0	35	5.7	67	1.9	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
24...	28	11	19	7.0	110	2.0	15	180	34	.21
NOV										
21...	--	--	--	--	--	--	14	178	105	.45
DEC										
19...	--	--	--	--	--	11	12	184	38	.11
JAN										
23...	2.0	3.0	4.3	3.8	28	7.0	7.5	141	--	.27
FEB										
21...	--	--	--	--	--	--	6.0	127	35	.40
MAR										
20...	--	--	--	--	--	10	6.5	157	39	.25
APR										
17...	7.4	5.5	6.3	4.2	61	8.0	7.5	128	--	.03
MAY										
15...	--	--	--	--	--	3.0	4.0	223	88	.29
JUN										
12...	--	--	--	--	--	15	8.5	174	243	.45
JUL										
11...	24	11	13	3.6	130	4.0	--	191	--	.01
AUG										
14...	--	--	--	--	--	8.0	20	286	80	.32
SEP										
11...	--	--	--	--	--	6.0	11	146	70	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT 24...	<.05	.22	--	.18	<10	<5	<10	2100	<10	640
NOV 21...	--	.51	.68	.69	<10	--	20	6800	--	290
DEC 19...	.05	.15	.18	.29	--	--	<20	4900	--	87
JAN 23...	<.05	.31	.20	.24	<10	<5	<20	4300	<10	120
FEB 21...	.03	.43	.13	.22	<10	--	<20	2700	--	79
MAR 20...	.04	.29	.19	--	<10	--	<20	6200	--	94
APR 17...	.02	.05	.32	--	<10	20	<20	3000	<10	750
MAY 15...	.14	.43	3.1	.49	<10	--	<20	7400	--	190
JUN 12...	.12	.57	.33	.47	<10	--	20	9400	--	530
JUL 11...	.01	.02	.08	.28	<10	<5	20	1400	<10	570
AUG 14...	.02	.34	.13	--	<10	--	<20	3600	--	420
SEP 11...	--	--	--	.19	<10	--	<20	2500	--	270

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT 24...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV 21...	--	30	--	--	--	--	--	--	--	--
DEC 19...	--	10	--	--	--	--	--	--	--	--
JAN 23...	--	10	--	--	--	--	--	--	--	--
FEB 21...	--	10	.00	.00	.00	.00	.00	.00	.00	0
MAR 20...	--	10	--	--	--	--	--	--	--	--
APR 17...	--	<10	--	--	--	--	--	--	--	--
MAY 15...	--	40	--	--	--	--	--	--	--	--
JUN 12...	--	30	.00	.00	.00	.00	.00	.00	.00	0
JUL 11...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG 14...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP 11...	--	<10	.00	.00	.00	.00	.00	.00	.00	0

07047968 ST. FRANCIS RIVER NORTH OF HELENA, AR

LOCATION.--Lat 34°39'14", long 90°38'10", in sec.36, T.1 N., R.4 E., Lee County, Hydrologic Unit 08020203, at Phillips ferry crossing. 10.0 mi (16.1 km) north of Helena.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	295	7.7	16.0	15	8.3	83	3.0	<10	140
NOV											
21...	9827	9827	311	7.6	11.0	35	7.3	66	2.1	50	--
DEC											
19...	9827	9827	171	7.6	8.0	200	8.5	71	2.1	<20	--
JAN											
23...	9827	9827	72	6.4	3.0	75	8.4	62	4.1	20	22
FEB											
21...	9827	9827	140	7.4	1.0	--	12.4	87	3.5	58	--
MAR											
20...	9827	9827	125	7.3	10.0	200	9.1	81	2.7	<5	--
APR											
17...	9827	9827	198	7.3	18.0	55	6.0	63	2.9	33	66
MAY											
15...	9827	9827	103	6.9	19.0	180	6.3	67	3.0	40	--
JUN											
12...	9827	9827	198	7.4	24.0	200	5.6	66	3.1	<20	--
JUL											
11...	9827	9827	375	8.1	28.0	15	6.3	80	3.6	67	170
AUG											
14...	9827	9827	370	7.9	27.0	5	6.8	84	5.8	27	--
SEP											
11...	9827	9827	191	7.3	25.0	40	5.4	64	3.2	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT											
24...	40	11	7.8	3.9	110	8.0	11	187	27	.19	<.05
NOV											
21...	--	--	--	--	--	--	9.5	209	18	.21	--
DEC											
19...	--	--	--	--	--	12	8.5	229	183	.42	.08
JAN											
23...	7.0	3.0	4.9	3.1	19	7.0	7.5	101	--	.06	<.05
FEB											
21...	--	--	--	--	--	--	8.5	144	--	.62	.04
MAR											
20...	--	--	--	--	--	10	5.5	233	144	.48	.09
APR											
17...	12	7.8	5.7	2.9	77	14	7.0	135	--	.07	.03
MAY											
15...	--	--	--	--	--	4.0	4.5	305	240	.72	.26
JUN											
12...	--	--	--	--	--	16	6.0	264	487	.67	.19
JUL											
11...	44	14	10	3.1	180	6.0	--	224	--	.05	.02
AUG											
14...	--	--	--	--	--	10	9.5	230	47	1.1	.06
SEP											
11...	--	--	--	--	--	6.0	7.5	137	76	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	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)
OCT										
24...	.19	--	--	.10	<10	<5	<10	1300	<10	110
NOV										
21...	.22	.13	--	.20	<10	--	<20	1500	--	92
DEC										
19...	.50	.32	--	.56	<10	--	20	4000	--	190
JAN										
23...	.08	.09	--	.15	<10	<5	<20	2600	<10	78
FEB										
21...	.66	.22	--	.36	<10	--	<20	5200	--	170
MAR										
20...	.57	.36	--	--	<10	--	<20	10200	--	170
APR										
17...	.10	.16	--	--	<10	10	<20	2600	<10	170
MAY										
15...	.98	.96	--	.69	<10	--	<20	11000	--	160
JUN										
12...	.86	.44	--	.63	<10	--	30	13700	--	340
JUL										
11...	.07	.12	--	.24	<10	<5	<20	1300	<10	240
AUG										
14...	1.2	.12	--	--	<10	--	<20	2100	--	330
SEP										
11...	--	--	<.10	.20	<10	--	<20	3600	--	200

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
24...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
21...	--	<10	--	--	--	--	--	--	--	--
DEC										
19...	--	40	--	--	--	--	--	--	--	--
JAN										
23...	--	10	--	--	--	--	--	--	--	--
FEB										
21...	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR										
20...	--	40	--	--	--	--	--	--	--	--
APR										
17...	--	10	--	--	--	--	--	--	--	--
MAY										
15...	--	80	--	--	--	--	--	--	--	--
JUN										
12...	--	70	.00	.00	.00	.00	.00	.00	.01	1
JUL										
11...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
14...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
11...	--	30	.00	.00	.00	.00	.00	.00	.00	0

07047970 MISSISSIPPI RIVER AT HELENA, AR

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

DRAINAGE AREA.--941,700 mi² (2,439,000 km²), approximately.

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. Gage-height records since 1871 are contained in reports of Mississippi River Commission and National Weather Service. Intermittent records of discharge since 1879 and daily discharge since January 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 141.70 ft (43.190 m) National Geodetic Vertical Datum of 1929.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years, 481,300 ft³/s (13,600 m³/s), 348,700,000 acre-ft/yr (430 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,968,000 ft³/s (55,700 m³/s) Feb. 12, 1937; maximum gage height, 60.21 ft (18.352 m) Feb. 12-14, 1937; minimum discharge, 81,000 ft³/s (2,290 m³/s) Aug. 26, 1936. A discharge of 2,041,000 ft³/s (57,800 m³/s) was observed Apr. 23, 1912.
Maximum stage since at least 1828, that of Feb. 12-14, 1937.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 892,000 ft³/s (25,300 m³/s) Apr. 15, gage height, 32.27 ft (9.836 m); minimum, 155,000 ft³/s (4,390 m³/s) Feb. 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157000	296000	185000	238000	200000	346000	626000	396000	223000	332000	234000	287000
2	174000	308000	183000	238000	189000	401000	663000	403000	212000	358000	232000	278000
3	193000	321000	192000	231000	186000	467000	690000	405000	207000	374000	223000	262000
4	203000	334000	203000	218000	176000	533000	701000	402000	201000	381000	215000	250000
5	200000	342000	207000	210000	169000	603000	698000	399000	194000	374000	190000	248000
6	193000	345000	208000	204000	165000	628000	696000	402000	191000	361000	175000	251000
7	193000	345000	208000	198000	161000	658000	693000	403000	188000	356000	172000	251000
8	197000	344000	203000	199000	157000	686000	694000	404000	186000	352000	168000	253000
9	197000	341000	195000	203000	161000	711000	727000	401000	187000	341000	163000	268000
10	189000	332000	189000	206000	160000	731000	771000	399000	190000	326000	158000	291000
11	180000	315000	192000	210000	156000	744000	811000	412000	191000	312000	158000	314000
12	175000	291000	206000	215000	157000	759000	843000	455000	192000	301000	165000	331000
13	175000	267000	232000	219000	161000	769000	867000	466000	193000	291000	213000	338000
14	184000	247000	260000	220000	159000	768000	881000	468000	194000	284000	258000	336000
15	203000	233000	288000	222000	168000	765000	886000	471000	195000	283000	317000	327000
16	235000	223000	316000	223000	179000	773000	880000	472000	204000	286000	327000	312000
17	274000	216000	335000	222000	200000	784000	868000	456000	219000	282000	334000	300000
18	314000	209000	336000	222000	227000	791000	846000	412000	228000	276000	349000	295000
19	348000	203000	326000	221000	267000	794000	811000	376000	225000	275000	351000	312000
20	363000	199000	313000	223000	296000	791000	759000	347000	206000	279000	351000	359000
21	349000	197000	303000	225000	323000	780000	679000	321000	185000	279000	377000	413000
22	313000	192000	288000	226000	332000	765000	583000	300000	178000	267000	381000	448000
23	273000	188000	272000	227000	325000	740000	491000	282000	184000	246000	380000	455000
24	243000	188000	254000	229000	309000	708000	428000	270000	193000	225000	367000	454000
25	228000	186000	240000	237000	297000	671000	380000	260000	201000	224000	357000	456000
26	225000	179000	228000	243000	293000	635000	356000	250000	200000	235000	344000	455000
27	227000	177000	217000	246000	295000	606000	357000	238000	207000	243000	318000	441000
28	233000	179000	206000	242000	311000	583000	371000	231000	235000	242000	311000	427000
29	251000	179000	194000	239000	---	559000	384000	233000	269000	242000	301000	416000
30	274000	184000	183000	231000	---	551000	391000	234000	300000	237000	294000	412000
31	288000	---	176000	217000	---	581000	---	232000	---	239000	291000	---
TOTAL	7251000	7560000	7338000	6904000	6179000	20681000	19831000	11200000	6178000	9103000	8494000	10240000
MEAN	233900	252000	236700	222700	220700	667100	661000	361300	205900	293600	274000	341300
MAX	363000	345000	336000	246000	332000	794000	886000	472000	300000	381000	381000	456000
MIN	157000	177000	176000	198000	156000	346000	356000	231000	178000	224000	158000	248000
AC-FT	14380000	15000000	14550000	13690000	12260000	41020000	39330000	22220000	12250000	18060000	16850000	20310000

CAL YR 1976 TOTAL 142951000 MEAN 390600 MAX 931000 MIN 139000 AC-FT 283500000
WTR YR 1977 TOTAL 120959000 MEAN 331400 MAX 886000 MIN 156000 AC-FT 239900000

07048000 WEST FORK WHITE RIVER AT GREENLAND, AR

LOCATION.--Lat 35°58'50", long 94°10'25", in NW¼NW¼ sec.16, T.15 N., R.30 W., Washington County, Hydrologic Unit 11010001, near left bank on downstream side of highway bridge, 800 ft (244 m) upstream from bridge on U.S. Highway 71, 1.0 mi (1.6 km) south of Greenland, 5.5 mi (8.8 km) upstream from small tributary, and at mile 10.5 (16.9 km).

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,232.00 ft (375.514 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1945, nonrecording gage at present site and datum. October 1945 to September 30, 1976, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--33 years, 110 ft^3/s (3.12 m^3/s), 17.98 in/yr (457 mm/yr), 79,700 acre-ft/yr (98.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,700 ft^3/s (983 m^3/s) May 6, 1960, gage height, 14.50 ft (4.420 m) in gage well; 13.60 ft (4.145 m), from floodmarks, from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of contracted-opening measurement of peak flow: no flow at times in 1947-48, 1953-54, 1956, 1963-64, 1969-70, 1972, 1974, 1978.

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	0315	7,240	205	9.49	2.893
May 7	0745	*8,920	253	10.52	3.206

No flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	7.0	216	30	56	267	137	377	14	17	2.6	.00
2	66	20	122	28	56	315	122	235	36	15	2.3	.00
3	46	96	89	27	54	305	112	684	25	13	2.1	.00
4	35	53	73	26	52	234	180	775	53	12	1.9	.00
5	29	36	223	25	50	195	151	385	438	9.5	1.8	.00
6	25	28	137	24	50	166	149	276	375	8.2	2.1	.00
7	22	23	108	23	51	320	179	2840	305	7.5	1.9	.00
8	20	28	98	22	46	428	158	759	298	6.6	1.7	.00
9	19	158	78	21	46	294	140	388	189	5.9	1.4	.00
10	16	92	62	20	44	237	734	271	128	5.1	.87	.00
11	14	60	54	19	44	147	507	213	95	18	.64	.00
12	12	44	47	18	275	165	318	424	72	6.9	1.3	.00
13	11	33	161	17	1100	160	244	271	55	4.7	.94	.00
14	9.8	27	341	16	418	163	200	200	42	4.6	1.0	.06
15	8.5	24	207	21	269	153	171	161	33	11	.42	.00
16	7.6	568	161	26	204	202	151	131	26	6.1	.34	.00
17	6.7	185	131	38	172	202	134	108	22	4.5	.17	.00
18	6.6	107	105	46	162	172	150	98	470	4.0	.00	.00
19	6.1	73	89	44	154	152	124	89	222	3.5	.00	.00
20	5.8	65	74	41	120	137	107	71	161	3.0	.00	.01
21	5.0	137	63	40	114	256	95	61	185	2.8	.00	10
22	4.7	97	55	39	108	213	85	119	151	2.4	.00	4.5
23	5.5	72	51	42	118	427	80	98	109	2.4	.00	2.1
24	5.6	62	46	57	166	3910	71	65	82	2.2	.00	1.3
25	4.9	49	42	136	200	776	63	50	65	2.2	.00	.66
26	4.6	35	38	94	169	436	58	39	49	2.2	.00	.54
27	4.4	29	34	80	186	314	53	32	38	2.2	.00	.76
28	4.9	25	32	73	413	250	48	28	30	2.1	.06	.83
29	4.4	19	32	67	---	208	50	23	25	2.4	.10	.85
30	4.0	39	34	63	---	177	49	19	20	2.6	.00	.85
31	4.4	---	32	60	---	154	---	16	---	2.4	.00	---
TOTAL	526.5	2291.0	3035	1283	4896	11585	4870	9306	3711	192.0	23.64	22.46
MEAN	17.0	76.4	97.9	41.4	175	374	162	300	124	6.19	.76	.75
MAX	108	568	341	136	1100	3910	734	2840	470	18	2.6	10
MIN	4.0	7.0	32	16	44	137	48	16	14	2.1	.00	.00
CFSM	.21	.92	1.18	.50	2.11	4.50	1.95	3.61	1.49	.07	.009	.009
IN.	.24	1.03	1.36	.57	2.19	5.19	2.18	4.17	1.66	.09	.01	.01
AC-FT	1040	4540	6020	2540	9710	22980	9660	18460	7360	381	47	45

CAL YR 1977	TOTAL	20430.68	MEAN	56.0	MAX	2990	MIN	.30	CFSM	.67	IN	9.15	AC-FT	40520
WTR YR 1978	TOTAL	41741.60	MEAN	114	MAX	3910	MIN	.00	CFSM	1.37	IN	18.69	AC-FT	82790

07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE, AR

LOCATION.--Lat 36°03'00", long 94°04'42", in NW¼ sec.20, T.16 N., R.29 W., Washington County, Hydrologic Unit 1101001, at bridge on Mally Wagon Road, 0.5 mi (0.8 km) north of State Highway 16, 1.4 mi (2.3 km) upstream from White River and 4.3 mi (6.9 km) east of Fayetteville.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	187	7.7	13.0	5	9.6	91	--	60	90
NOV											
15...	9827	9827	167	7.4	14.0	5	9.7	93	2.0	210	--
DEC											
14...	9827	9827	123	7.6	8.0	75	10.6	89	2.8	2000	--
JAN											
30...	9827	9827	144	7.1	1.0	20	13.5	95	2.7	7	46
FEB											
20...	9827	9827	129	7.5	2.0	20	13.3	96	3.8	43	--
MAR											
20...	9827	9827	108	7.5	13.0	25	11.0	104	2.7	320	--
APR											
11...	9827	9827	91	7.2	13.0	80	9.6	91	.3	3700	28
MAY											
09...	9827	9827	97	7.4	--	50	9.3	--	--	880	--
JUN											
06...	9827	9827	123	7.6	20.0	100	8.4	91	5.5	7500	--
JUL											
11...	9827	9827	178	7.2	30.0	10	5.7	75	--	660	74
AUG											
08...	9827	9827	255	7.6	25.0	5	8.1	96	6.8	13	--
SEP											
05...	9827	9827	248	7.5	27.0	--	6.7	83	5.0	220	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
18...	30	3.4	4.5	1.7	67	15	6.5	--	12	<.05
NOV										
15...	--	--	--	--	--	16	7.0	98	27	.28
DEC										
14...	--	--	--	--	--	11	6.0	110	120	.35
JAN										
30...	13	3.0	4.1	.9	46	14	7.0	91	5	.42
FEB										
20...	--	--	--	--	--	10	5.5	90	8	.62
MAR										
20...	--	--	--	--	--	9.0	5.0	74	29	.25
APR										
11...	5.0	1.6	2.3	1.5	31	8.0	4.5	99	70	.19
MAY										
09...	--	--	--	--	--	8.0	5.0	75	40	.34
JUN										
06...	--	--	--	--	--	6.0	4.0	77	90	.36
JUL										
11...	24	3.0	4.2	1.9	78	7.0	6.0	109	19	.29
AUG										
08...	--	--	--	--	--	18	10	158	24	.08
SEP										
05...	--	--	--	--	--	--	7.5	148	111	.01

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
18...	<.05	<.05	<.05	.03	<10	6	<10	600	<10	100
NOV										
15...	<.05	.29	.07	.05	--	--	--	--	--	--
DEC										
14...	<.05	.39	.22	.27	--	--	--	--	--	--
JAN										
30...	<.05	.42	<.05	.03	<10	--	<20	660	<10	41
FEB										
20...	.01	.63	.08	.03	--	--	--	--	--	--
MAR										
20...	.01	.26	.04	--	--	--	--	--	--	--
APR										
11...	.04	.23	.15	.13	<10	30	30	4800	<10	190
MAY										
09...	.01	.35	.68	.11	--	--	--	--	--	--
JUN										
06...	.04	.40	.13	.06	--	--	--	--	--	--
JUL										
11...	.01	.30	.09	.48	<10	<5	<20	790	10	220
AUG										
08...	.01	.09	.02	.08	--	--	--	--	--	--
SEP										
05...	.01	.02	.08	.21	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
18...	--	<10	--	--	--	--	--	--	--	--
NOV										
15...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	<10	--	--	--	--	--	--	--	--
FEB										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
11...	--	20	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07048600 WHITE RIVER NEAR FAYETTEVILLE, AR

LOCATION.--Lat 36°04'23", long 94°04'51", in NE¼SW¼ sec.8, T.16 N., R.29 W., Washington County, Hydrologic Unit 11010001, on left bank at downstream side of bridge on county road, 0.6 mi (1.0 km) downstream from West Fork White River, 0.8 mi (1.3 km) downstream from Lake Sequoyah Dam on White River, 4.3 mi (6.9 km) east of Fayetteville, and at mile 684.0 (1,100.6 km).

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 1,138.25 ft (346.939 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--15 years, 534 ft^3/s (15.1 m^3/s), 18.13 in/yr (460 mm/yr), 386,900 acre-ft/yr (477 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,400 ft^3/s (1,310 m^3/s) Nov. 25, 1963, gage height, 30.29 ft (9.232 m), from rating curve extended above 30,900 ft^3/s (875 m^3/s); minimum, 1.1 ft^3/s (0.031 m^3/s) June 12, 1977, gage height, 0.93 ft (0.283 m).

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	1500	*22,700	643	22.82	6.956
May 7	1300	20,700	586	21.84	6.657

Minimum discharge, 1.2 ft^3/s (0.034 m^3/s) Sept. 8, gage height, 0.87 ft (0.265 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	965	60	1060	153	266	1270	622	1300	172	68	3.6	19
2	582	108	720	145	254	1590	526	1180	226	57	3.6	20
3	416	403	600	132	240	1730	467	2620	236	50	3.4	17
4	311	869	520	126	228	1210	634	3720	235	44	15	2.2
5	255	571	1100	122	234	984	569	2200	901	37	16	1.6
6	220	430	935	119	228	862	669	1500	2540	30	11	1.5
7	187	349	875	114	223	1500	652	11500	2410	25	8.5	1.5
8	167	310	800	101	215	2340	557	4100	1730	23	6.5	1.4
9	155	887	648	99	211	1560	496	2040	1160	20	4.8	1.4
10	135	833	478	92	207	1230	2480	1380	732	16	3.8	1.4
11	115	586	426	89	204	1010	2240	1020	535	116	4.0	3.2
12	107	460	391	87	305	844	1300	1980	415	132	40	3.1
13	103	376	566	87	5200	759	984	1320	335	30	33	2.3
14	102	324	1740	83	2200	799	793	862	273	27	24	28
15	100	286	1020	80	1550	701	668	663	224	293	22	12
16	100	3240	798	134	1020	1210	572	521	184	91	21	4.1
17	99	1780	662	219	840	1170	505	430	153	45	21	2.7
18	98	1070	533	191	640	987	626	417	1480	30	21	2.0
19	96	784	446	179	535	853	587	372	833	22	21	1.7
20	95	631	381	156	460	832	498	319	610	19	22	2.0
21	93	1160	331	148	440	1570	432	308	759	18	20	186
22	92	925	296	142	410	1220	384	628	463	12	20	35
23	91	736	265	141	595	1590	363	753	327	8.0	20	13
24	89	582	246	229	733	17100	322	472	252	8.1	20	7.3
25	89	475	224	550	834	5460	286	364	207	9.2	20	4.9
26	87	393	203	431	717	2610	262	301	165	6.9	20	4.0
27	83	341	186	379	700	1800	240	253	136	8.0	20	3.6
28	80	298	172	323	1890	1360	218	219	113	7.6	20	3.5
29	76	259	170	311	---	1070	233	196	94	5.0	20	3.5
30	70	706	178	296	---	873	223	169	81	4.2	19	3.4
31	65	---	170	278	---	729	---	145	---	3.8	19	---
TOTAL	5323	20232	17140	5736	21579	58823	19408	43252	17981	1265.8	523.2	392.3
MEAN	172	674	553	185	771	1898	647	1395	599	40.8	16.9	13.1
MAX	965	3240	1740	550	5200	17100	2480	11500	2540	293	40	186
MIN	65	60	170	80	204	701	218	145	81	3.8	3.4	1.4
CFSM	.43	1.69	1.38	.46	1.93	4.75	1.62	3.49	1.50	.10	.04	.03
IN.	.50	1.88	1.59	.53	2.01	5.47	1.80	4.02	1.67	.12	.05	.04
AC-FT	10560	40130	34000	11380	42800	116700	38500	85790	35670	2510	1040	778

CAL YR 1977 TOTAL 127414.8 MEAN 349 MAX 13000 MIN 1.5 CFSM .87 IN 11.85 AC-FT 252700
WTR YR 1978 TOTAL 211655.3 MEAN 580 MAX 17100 MIN 1.4 CFSM 1.45 IN 19.68 AC-FT 419800

07048700 WHITE RIVER NEAR GOSHEN, AR

LOCATION.--Lat 36°06'21", long 94°00'41", in NE¼NW¼ sec.31, T.17 N., R.28 W., Washington County, Hydrologic Unit 1101001, at bridge on State Highway 45, 0.2 mi (0.3 km) upstream from Richland Creek, and 1.2 mi (1.9 km) west of Goshen.

DRAINAGE AREA.--412 mi² (1,067 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT											
18...	9827	9827	--	--	140	7.1	15.0	5	--	--	7.0
NOV											
15...	9827	9827	--	--	94	7.2	14.0	30	--	--	9.0
DEC											
14...	9827	9827	--	--	83	7.4	7.0	50	--	--	11.4
JAN											
30...	9827	9827	--	--	124	7.0	2.0	25	--	--	13.1
FEB											
20...	9827	9827	--	--	88	7.3	3.0	--	--	--	12.8
MAR											
01...	1028	1028	.0	12	--	--	--	--	--	16	--
01...	1028	1028	6.0	12	78	7.5	3.5	90	45	--	12.6
20...	9827	9827	--	--	79	7.2	14.0	25	--	--	10.5
APR											
11...	9827	9827	--	--	82	7.2	16.0	90	--	--	9.1
MAY											
09...	9827	9827	--	--	72	7.3	18.0	70	--	--	9.5
JUN											
06...	9827	9827	--	--	104	7.5	22.0	50	--	--	8.1
14...	1028	1028	.0	12	--	--	--	--	--	12	--
14...	1028	1028	6.0	12	85	6.9	23.0	4	9.5	--	4.8
JUL											
11...	9827	9827	--	--	248	7.8	30.0	10	--	--	9.3
AUG											
08...	9827	9827	--	--	395	7.6	25.5	10	--	--	6.2
SEP											
05...	9827	9827	--	--	319	7.6	28.0	10	--	--	6.5
27...	1028	1028	.0	7.0	--	--	--	--	--	12	--
27...	1028	1028	3.5	7.0	220	7.3	20.5	25	26	--	2.7

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)
OCT											
18...	69	--	100	7	--	53	--	16	--	--	2.3
NOV											
15...	87	2.3	280	15	--	--	--	--	--	--	--
DEC											
14...	93	2.5	5600	880	--	--	--	--	--	--	--
JAN											
30...	95	2.9	<20	<7	--	40	--	10	--	--	3.0
FEB											
20...	95	2.1	<20	<3	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	K120	--	--	--	--	--	--
01...	--	1.7	--	--	--	37	13	--	12	30	--
20...	101	1.5	<10	<4	--	--	--	--	--	--	--
APR											
11...	91	2.5	--	4900	--	25	--	4.0	--	--	1.5
MAY											
09...	100	--	3600	1100	--	--	--	--	--	--	--
JUN											
06...	100	3.6	740	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	2.4	--	--	16	--	--	--	--	--	--
JUL											
11...	122	--	130	60	--	79	--	26	--	--	3.0
AUG											
08...	76	4.8	--	33	--	--	--	--	--	--	--
SEP											
05...	82	4.5	640	40	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	4.5	--	--	K1700	100	45	--	36	90	--

07048700 WHITE RIVER NEAR GOSHEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
18...	--	6.2	2.1	--	--	38	--	10	9.0	--
NOV										
15...	--	--	--	--	--	--	--	8.0	6.0	65
DEC										
14...	--	--	--	--	--	--	--	8.0	5.0	72
JAN										
30...	--	4.3	1.2	--	--	38	--	11	7.0	82
FEB										
20...	--	--	--	--	--	--	--	8.0	4.5	72
MAR										
01...	1.7	--	1.0	29	0	24	1.5	9.4	3.2	--
20...	--	--	--	--	--	--	--	6.0	5.0	61
APR										
11...	--	2.3	2.5	--	--	29	--	7.0	5.0	98
MAY										
04...	--	--	--	--	--	--	--	6.0	5.0	65
JUN										
05...	--	--	--	--	--	--	--	10	4.5	77
14...	1.5	--	1.3	34	0	28	6.8	7.7	3.6	--
JUL										
11...	--	13	3.7	--	--	56	--	15	16	142
AUG										
08...	--	--	--	--	--	--	--	32	33	235
SEP										
05...	--	--	--	--	--	--	--	--	26	180
27...	3.4	--	4.1	72	0	59	5.8	30	18	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)
OCT										
18...	33	.45	.15	.60	.67	--	--	--	--	.26
NOV										
15...	14	.42	<.05	.46	.34	--	--	--	--	.21
DEC										
14...	54	.47	<.05	.49	.17	--	--	--	--	.18
JAN										
30...	8	.46	<.05	.47	.30	--	--	--	--	.16
FEB										
20...	14	.59	.01	.60	.17	--	--	--	--	.17
MAR										
01...	--	--	--	.50	.10	.18	.28	.78	3.5	.13
20...	21	.38	.01	.39	.12	--	--	--	--	--
APR										
11...	16	.22	.05	.27	.23	--	--	--	--	.16
MAY										
04...	12	.30	.02	.32	.11	--	--	--	--	.14
JUN										
05...	43	.37	.03	.40	.18	--	--	--	--	.98
14...	--	--	--	.33	.33	.10	.43	.76	3.4	.14
JUL										
11...	62	1.2	.05	1.3	.26	--	--	--	--	.18
AUG										
08...	33	.91	.02	.93	1.7	--	--	--	--	1.0
SEP										
05...	46	.74	.18	.92	4.0	--	--	--	--	1.4
27...	--	--	--	.33	2.8	.70	3.5	3.8	17	1.2

07048700 WHITE RIVER NEAR GOSHEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)
OCT										
18...	--	--	<5	<10	6	620	1300	90	190	--
NOV										
15...	--	--	--	<10	--	<20	1300	--	100	--
DEC										
14...	--	--	--	<10	--	<20	3100	--	150	--
JAN										
30...	--	--	<5	<10	10	150	1000	40	89	--
FEB										
20...	--	--	--	<10	--	770	1000	--	64	--
MAR										
01...	.06	2000	1	--	10	43	2600	23	110	.0
24...	--	--	--	<10	--	340	1700	--	140	--
APR										
11...	--	--	<5	<10	40	150	4400	70	210	--
MAY										
9...	--	--	--	<10	--	60	2200	--	110	--
JUN										
05...	--	--	--	<10	--	90	2600	--	330	--
14...	.12	410	1	--	0	7	850	6	170	.3
JUL										
11...	--	--	<5	<10	<5	90	560	40	470	<1.0
AUG										
04...	--	--	--	<10	--	80	1500	--	980	--
SEP										
05...	--	--	--	<10	--	90	1500	--	650	--
27...	.87	410	4	--	0	5	1300	3	1000	.0

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
18...	--	580	--	--	--	--	--	--	--	--
NOV										
15...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
DEC										
14...	--	10	--	--	--	--	--	--	--	--
JAN										
30...	--	110	--	--	--	--	--	--	--	--
FEB										
20...	--	650	--	--	--	--	--	--	--	--
MAR										
01...	10	220	--	--	--	--	--	--	--	--
20...	--	390	--	--	--	--	--	--	--	--
APR										
11...	--	110	--	--	--	--	--	--	--	--
MAY										
09...	--	60	--	--	--	--	--	--	--	--
JUN										
05...	--	110	--	--	--	--	--	--	--	--
14...	7	10	--	--	--	--	--	--	--	--
JUL										
11...	--	70	--	--	--	--	--	--	--	--
AUG										
04...	--	90	--	--	--	--	--	--	--	--
SEP										
05...	--	90	--	--	--	--	--	--	--	--
27...	9	30	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, Hydrologic Unit 11010001, at dam on White River, 6.0 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).
DRAINAGE AREA.--1,192 mi² (3,087 km²).
PERIOD OF RECORD.--Water years 1968-71, 1973, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
12...	1028	1028	.0	150	19.5	228	9.6
12...	1028	1028	10	150	19.5	--	9.6
12...	1028	1028	20	150	19.5	--	9.6
12...	1028	1028	30	145	19.5	--	9.5
12...	1028	1028	35	145	19.5	--	9.5
12...	1028	1028	40	145	17.5	--	7.8
12...	1028	1028	45	140	14.0	--	7.5
12...	1028	1028	50	140	12.0	--	7.3
12...	1028	1028	55	140	11.0	--	6.7
12...	1028	1028	60	140	10.5	--	6.6
12...	1028	1028	70	140	9.5	--	6.2
12...	1028	1028	80	140	9.0	--	6.5
12...	1028	1028	90	140	8.0	--	6.9
12...	1028	1028	100	135	7.5	--	7.1
12...	1028	1028	110	135	7.0	--	7.3
12...	1028	1028	120	135	7.0	--	7.1
12...	1028	1028	130	130	7.0	--	6.5
12...	1028	1028	140	130	6.5	--	6.3
12...	1028	1028	150	130	6.5	--	6.5
12...	1028	1028	160	130	6.5	--	6.8
12...	1028	1028	170	130	6.5	--	6.7
12...	1028	1028	179	135	6.5	--	4.7

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV								
09...	1028	1028	.0	145	8.1	17.0	228	8.4
09...	1028	1028	10	145	8.1	17.5	--	8.3
09...	1028	1028	20	145	8.0	17.5	--	8.3
09...	1028	1028	30	145	7.9	17.5	--	8.1
09...	1028	1028	40	145	7.9	17.5	--	8.1
09...	1028	1028	50	145	7.9	17.5	--	8.0
09...	1028	1028	55	145	7.9	16.0	--	7.5
09...	1028	1028	60	140	7.9	12.0	--	5.2
09...	1028	1028	65	135	7.9	11.0	--	4.7
09...	1028	1028	70	135	7.9	10.0	--	4.4
09...	1028	1028	80	135	7.9	9.5	--	4.5
09...	1028	1028	90	135	7.9	8.5	--	4.9
09...	1028	1028	100	135	7.9	8.0	--	4.9
09...	1028	1028	110	135	7.9	7.5	--	5.0
09...	1028	1028	120	135	7.9	7.5	--	4.9
09...	1028	1028	130	135	7.9	7.0	--	4.6
09...	1028	1028	140	135	7.9	7.0	--	4.2
09...	1028	1028	150	135	7.9	7.0	--	4.2
09...	1028	1028	160	135	7.9	7.0	--	4.2
09...	1028	1028	170	135	7.9	6.5	--	4.0
09...	1028	1028	180	140	7.9	6.5	--	2.5
09...	1028	1028	190	--	--	6.5	--	.5
DEC								
07...	1028	1028	.0	130	8.0	11.0	216	8.8
07...	1028	1028	10	130	8.0	11.0	--	9.7
07...	1028	1028	20	130	8.0	11.0	--	9.9
07...	1028	1028	30	130	8.0	11.0	--	9.8
07...	1028	1028	40	130	8.0	11.0	--	9.8
07...	1028	1028	50	130	8.0	11.0	--	9.8
07...	1028	1028	60	130	8.0	11.0	--	9.8
07...	1028	1028	70	130	8.0	11.0	--	9.8
07...	1028	1028	75	135	7.6	10.0	--	4.1
07...	1028	1028	80	135	7.6	9.5	--	4.1
07...	1028	1028	90	135	7.6	9.5	--	4.1
07...	1028	1028	100	135	7.6	8.5	--	4.5
07...	1028	1028	110	135	7.7	8.0	--	4.7
07...	1028	1028	120	135	7.8	8.0	--	4.4
07...	1028	1028	130	135	7.8	8.0	--	4.1
07...	1028	1028	140	135	7.9	8.0	--	3.4
07...	1028	1028	150	135	7.8	7.5	--	3.4
07...	1028	1028	160	135	7.8	7.5	--	3.3
07...	1028	1028	170	135	7.8	7.5	--	3.0
07...	1028	1028	180	135	7.8	7.5	--	2.4
07...	1028	1028	182	135	7.8	7.5	--	1.5

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	SAMP- LING DEPTH (FT) (00003)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)
JAN								
04...	1028	1028	.0	150	7.3	7.5	174	9.2
04...	1028	1028	10	150	7.3	7.5	--	9.1
04...	1028	1028	20	150	7.4	7.5	--	9.0
04...	1028	1028	30	150	7.4	7.5	--	9.0
04...	1028	1028	40	150	7.4	7.5	--	8.8
04...	1028	1028	50	150	7.4	7.5	--	8.8
04...	1028	1028	60	150	7.3	7.5	--	8.8
04...	1028	1028	70	150	7.3	7.5	--	8.6
04...	1028	1028	80	150	7.3	7.5	--	8.6
04...	1028	1028	90	150	7.2	7.5	--	8.5
04...	1028	1028	100	150	7.2	7.5	--	8.5
04...	1028	1028	110	150	7.2	7.5	--	8.5
04...	1028	1028	120	140	7.3	7.5	--	8.6
04...	1028	1028	130	140	7.3	7.5	--	8.5
04...	1028	1028	140	140	7.3	7.5	--	6.3
04...	1028	1028	150	140	7.3	7.5	--	6.3
04...	1028	1028	160	140	7.0	7.5	--	3.4
04...	1028	1028	170	140	7.0	7.5	--	2.2
04...	1028	1028	180	140	6.9	7.5	--	.6

DATE	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	SAMP- LING DEPTH (FT) (00003)	RESER- VOIR DEPTH (FEET) (72025)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAR											
02...	1028	1028	.0	190	130	7.8	3.0	--	--	240	12.6
02...	1028	1028	10	--	130	7.8	3.0	--	--	--	12.6
02...	1028	1028	20	--	130	7.8	3.0	--	--	--	12.6
02...	1028	1028	25	190	130	7.8	3.0	2	.50	--	12.6
02...	1028	1028	30	--	130	7.8	3.0	--	--	--	12.6
02...	1028	1028	40	--	132	7.8	3.0	--	--	--	12.6
02...	1028	1028	50	--	132	7.7	3.0	--	--	--	12.4
02...	1028	1028	60	--	132	7.7	3.0	--	--	--	12.4
02...	1028	1028	70	--	132	7.7	3.0	--	--	--	12.4
02...	1028	1028	80	--	132	7.7	3.5	--	--	--	12.4
02...	1028	1028	90	--	132	7.7	3.5	--	--	--	12.4
02...	1028	1028	100	190	132	7.7	3.5	2	.70	--	12.4
02...	1028	1028	110	--	132	7.7	3.5	--	--	--	12.4
02...	1028	1028	120	--	132	7.7	3.5	--	--	--	12.4
02...	1028	1028	130	--	132	7.8	3.5	--	--	--	12.4
02...	1028	1028	140	--	132	7.8	3.5	--	--	--	12.4
02...	1028	1028	150	--	132	8.0	3.5	--	--	--	12.4
02...	1028	1028	160	--	132	8.0	3.5	--	--	--	12.4
02...	1028	1028	170	--	132	8.0	3.5	--	--	--	12.4
02...	1028	1028	180	--	132	8.2	3.5	--	--	--	12.4
02...	1028	1028	186	--	134	8.3	3.5	--	--	--	12.0

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CALCIUM DIS- SOLVED (MG/L AS CACO3) (00910)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	BICAR- BONATE (MG/L AS HCO3) (00440)	CAR- BONATE (MG/L AS CO3) (00445)	ALKA- LINITY (MG/L AS CACO3) (00410)
MAR											
02...	--	0	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	.4	--	100	37	36	90	2.4	1.1	76	0	62
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	.3	--	65	7	22	55	2.4	1.1	70	0	57
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	1.9	7.2	2.8	.16	.04	.28	.32	.48	2.1	.01	.00
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	2.2	7.6	2.8	.18	.04	.58	.62	.80	3.5	.01	.01
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
MAR										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	1	0	7	130	6	20	.2	10	20
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	50	1	10	11	90	6	20	.0	10	30
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
APR								
11...	1028	1028	.0	140	7.2	14.0	186	10.2
11...	1028	1028	10	140	7.6	14.0	--	10.2
11...	1028	1028	15	140	7.6	13.0	--	10.7
11...	1028	1028	20	140	7.4	11.0	--	11.1
11...	1028	1028	25	140	7.4	9.5	--	11.3
11...	1028	1028	30	140	7.4	9.0	--	11.5
11...	1028	1028	35	140	7.4	8.0	--	11.6
11...	1028	1028	40	140	7.4	7.5	--	11.7
11...	1028	1028	50	140	7.3	6.5	--	11.8
11...	1028	1028	60	140	7.3	6.0	--	11.8
11...	1028	1028	70	140	7.4	5.5	--	11.8
11...	1028	1028	80	140	7.5	5.0	--	11.8
11...	1028	1028	90	140	7.6	5.0	--	11.8
11...	1028	1028	100	140	7.6	4.5	--	11.8
11...	1028	1028	110	140	7.7	4.5	--	11.8
11...	1028	1028	120	140	7.7	4.5	--	11.8
11...	1028	1028	130	140	7.7	4.5	--	11.8
11...	1028	1028	140	140	7.7	4.5	--	11.8
11...	1028	1028	150	140	7.8	4.5	--	11.7
11...	1028	1028	160	140	7.8	4.5	--	11.7
11...	1028	1028	170	140	7.8	4.5	--	11.6
11...	1028	1028	180	140	7.8	4.0	--	11.5
11...	1028	1028	190	140	7.8	4.0	--	11.4
11...	1028	1028	200	140	7.9	4.0	--	11.4
MAY								
09...	1028	1028	.0	140	8.5	15.0	259	9.8
09...	1028	1028	10	140	8.4	15.0	--	9.8
09...	1028	1028	20	140	8.3	15.0	--	9.8
09...	1028	1028	25	140	8.4	12.5	--	10.2
09...	1028	1028	30	140	8.4	12.5	--	10.2
09...	1028	1028	40	140	8.2	11.5	--	10.2
09...	1028	1028	50	140	8.1	9.5	--	10.2
09...	1028	1028	55	140	8.1	8.5	--	10.6
09...	1028	1028	60	140	8.1	7.5	--	10.8
09...	1028	1028	70	140	8.1	7.0	--	10.8
09...	1028	1028	80	140	8.1	6.5	--	10.8
09...	1028	1028	90	140	8.1	6.0	--	10.8
09...	1028	1028	100	140	8.1	5.5	--	10.8
09...	1028	1028	110	140	8.1	5.5	--	10.9
09...	1028	1028	120	140	8.1	5.5	--	10.9
09...	1028	1028	130	140	8.1	5.0	--	10.9
09...	1028	1028	140	140	8.1	5.0	--	10.9
09...	1028	1028	150	140	8.1	5.0	--	10.9
09...	1028	1028	160	140	8.1	5.0	--	10.9
09...	1028	1028	170	140	8.1	5.0	--	10.9
09...	1028	1028	180	140	8.1	4.5	--	10.8
09...	1028	1028	190	140	8.1	4.5	--	10.6
09...	1028	1028	200	144	8.1	4.5	--	10.2

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUN											
15...	1028	1028	.0	190	138	8.8	24.0	--	--	294	8.6
15...	1028	1028	10	--	138	8.9	24.0	--	--	--	8.6
15...	1028	1028	20	--	138	8.8	24.0	--	--	--	8.6
15...	1028	1028	25	190	138	8.9	18.0	1	.40	--	11.0
15...	1028	1028	30	--	138	8.4	16.0	--	--	--	10.0
15...	1028	1028	40	--	140	8.0	14.5	--	--	--	8.8
15...	1028	1028	50	--	140	8.0	14.5	--	--	--	8.8
15...	1028	1028	55	--	142	7.8	12.0	--	--	--	8.4
15...	1028	1028	60	--	142	7.8	11.0	--	--	--	8.4
15...	1028	1028	70	--	142	7.8	9.5	--	--	--	9.2
15...	1028	1028	80	--	142	7.8	7.5	--	--	--	9.2
15...	1028	1028	90	--	140	7.8	7.0	--	--	--	9.6
15...	1028	1028	100	190	140	7.7	6.5	1	.40	--	9.6
15...	1028	1028	110	--	140	7.7	6.0	--	--	--	9.8
15...	1028	1028	120	--	140	7.7	6.0	--	--	--	9.8
15...	1028	1028	130	--	142	7.7	5.5	--	--	--	10.0
15...	1028	1028	140	--	142	7.6	5.5	--	--	--	9.9
15...	1028	1028	150	--	142	7.6	5.5	--	--	--	9.9
15...	1028	1028	160	--	142	7.6	5.5	--	--	--	9.8
15...	1028	1028	170	--	142	7.6	5.5	--	--	--	9.8
15...	1028	1028	180	--	142	7.6	5.5	--	--	--	9.6
15...	1028	1028	190	--	142	7.6	5.0	--	--	--	9.2

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
JUN											
15...	--	0	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	1.0	--	66	6	23	58	2.0	1.3	73	60	.1
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.7	--	66	6	23	58	2.0	1.4	73	60	2.3
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
JUN										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	7.4	3.1	.16	.06	.03	.09	.25	1.1	.00	.00
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	7.4	3.3	.25	.01	.06	.07	.32	1.4	.00	.00
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)
JUN										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	70	0	10	20	10	6	10	.0	0	20
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	60	0	5	21	0	6	10	.0	2	30
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JUL								
18...	1028	1028	.0	140	8.3	29.5	168	7.4
18...	1028	1028	10	140	8.5	29.5	--	7.4
18...	1028	1028	20	140	8.5	29.5	--	7.4
18...	1028	1028	22	140	8.6	29.0	--	8.0
18...	1028	1028	25	140	9.0	24.5	--	12.7
18...	1028	1028	30	138	8.7	20.0	--	11.4
18...	1028	1028	35	140	7.6	17.0	--	8.4
18...	1028	1028	40	140	7.4	15.5	--	7.2
18...	1028	1028	50	142	7.3	14.5	--	7.0
18...	1028	1028	55	144	7.2	13.0	--	6.9
18...	1028	1028	60	144	7.2	12.5	--	6.8
18...	1028	1028	70	142	7.1	11.0	--	7.0
18...	1028	1028	80	140	7.1	9.5	--	7.4
18...	1028	1028	90	138	7.1	8.5	--	7.8
18...	1028	1028	100	138	7.1	7.5	--	8.1
18...	1028	1028	110	140	7.0	7.0	--	8.3
18...	1028	1028	120	140	7.0	6.5	--	8.4
18...	1028	1028	130	142	7.0	6.0	--	8.4
18...	1028	1028	140	142	7.0	6.0	--	8.3
18...	1028	1028	150	142	7.0	5.5	--	8.1
18...	1028	1028	160	144	7.0	5.5	--	8.0
18...	1028	1028	170	144	7.0	5.5	--	8.0
18...	1028	1028	180	144	7.0	5.5	--	7.9
18...	1028	1028	189	144	7.0	5.5	--	7.8

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
AUG								
15...	1028	1028	.0	135	8.4	28.0	114	7.4
15...	1028	1028	10	140	8.6	28.0	--	7.5
15...	1028	1028	20	140	8.6	28.0	--	7.4
15...	1028	1028	30	140	8.6	26.0	--	7.4
15...	1028	1028	32	140	8.2	24.5	--	7.4
15...	1028	1028	33	140	7.9	22.0	--	7.9
15...	1028	1028	34	140	7.7	20.0	--	7.8
15...	1028	1028	35	140	7.5	19.0	--	7.2
15...	1028	1028	37	140	7.4	18.0	--	6.5
15...	1028	1028	40	140	7.2	16.5	--	5.9
15...	1028	1028	45	140	7.2	15.5	--	5.9
15...	1028	1028	50	140	7.2	15.0	--	5.8
15...	1028	1028	60	140	7.1	13.5	--	5.1
15...	1028	1028	70	140	7.2	12.5	--	5.1
15...	1028	1028	80	140	7.2	10.5	--	5.4
15...	1028	1028	90	140	7.2	9.5	--	5.7
15...	1028	1028	100	135	7.2	8.5	--	6.3
15...	1028	1028	110	135	7.2	7.5	--	6.6
15...	1028	1028	120	135	7.2	7.0	--	6.6
15...	1028	1028	130	140	7.2	6.5	--	6.6
15...	1028	1028	140	140	7.2	6.0	--	6.6
15...	1028	1028	150	140	7.1	6.0	--	6.4
15...	1028	1028	160	140	7.1	6.0	--	6.3
15...	1028	1028	170	140	7.1	6.0	--	6.1
15...	1028	1028	180	140	7.1	6.0	--	5.9
15...	1028	1028	190	140	7.1	6.0	--	5.6
15...	1028	1028	195	140	7.1	6.0	--	5.5

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
SEP											
28...	1028	1028	.0	176	142	8.3	24.0	--	--	175	8.2
28...	1028	1028	10	--	144	8.3	23.5	--	--	--	8.1
28...	1028	1028	20	--	144	8.3	23.5	--	--	--	8.1
28...	1028	1028	25	176	144	8.4	23.0	2	.70	--	8.1
28...	1028	1028	30	--	144	8.4	23.5	--	--	--	8.0
28...	1028	1028	35	--	142	7.2	21.0	--	--	--	4.0
28...	1028	1028	38	--	142	7.1	18.5	--	--	--	3.2
28...	1028	1028	40	--	140	7.1	17.5	--	--	--	3.0
28...	1028	1028	45	--	140	7.1	15.5	--	--	--	3.5
28...	1028	1028	50	--	142	7.1	14.0	--	--	--	3.3
28...	1028	1028	60	--	142	7.0	13.0	--	--	--	3.5
28...	1028	1028	70	--	140	7.0	11.5	--	--	--	3.8
28...	1028	1028	80	--	138	7.0	10.5	--	--	--	4.3
28...	1028	1028	90	--	134	7.0	9.5	--	--	--	4.8
28...	1028	1028	100	176	132	7.0	8.0	6	1.9	--	4.9
28...	1028	1028	110	--	132	7.0	7.5	--	--	--	4.7
28...	1028	1028	120	--	134	7.0	7.0	--	--	--	4.4
28...	1028	1028	130	--	136	7.0	6.5	--	--	--	4.2
28...	1028	1028	140	--	134	7.0	6.5	--	--	--	3.8
28...	1028	1028	150	--	140	7.0	6.0	--	--	--	3.5
28...	1028	1028	160	--	140	7.0	6.0	--	--	--	3.1
28...	1028	1028	170	--	142	7.0	6.0	--	--	--	2.9
28...	1028	1028	176	--	144	7.0	6.0	--	--	--	2.9

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
SEP											
28...	--	2	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.7	--	67	--	23	58	2.2	1.3	74	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.4	--	61	15	21	52	2.0	1.2	56	0	46
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
SEP											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.5	10	3.3	.02	.00	.30	.30	.32	1.4	.00	.00
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	9.0	8.9	3.7	.55	.00	.28	.28	.83	3.7	.00	.00
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)
SEP										
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	40	0	10	1	10	2	10	.0	0	10
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	90	0	0	1	100	3	40	.0	0	0
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--

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

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, Hydrologic Unit 11010001, at Beaver Dam, 6.0 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
OCT										
12...	1028	1028	140	--	7.0	--	--	10.8	--	--
NOV										
09...	1028	1028	140	7.9	7.5	--	--	8.5	--	--
DEC										
07...	1028	1028	135	7.8	10.0	--	--	7.8	--	--
JAN										
04...	1028	1028	140	7.2	7.5	--	--	8.1	--	--
MAR										
02...	1028	1028	144	7.7	3.5	1	.50	13.2	.4	6
APR										
11...	1028	1028	140	8.3	5.5	--	--	12.4	--	--
MAY										
09...	1028	1028	130	8.1	6.0	--	--	11.0	--	--
JUN										
15...	1028	1028	144	7.7	7.0	1	.40	9.2	1.2	4
JUL										
18...	1028	1028	138	7.5	8.5	--	--	10.6	--	--
AUG										
15...	1028	1028	135	7.4	8.5	--	--	6.9	--	--
SEP										
28...	1028	1028	134	7.2	9.5	4	1.0	5.1	.5	14

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
OCT										
12...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
07...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	78	17	25	62	3.7	1.1	74	0	61	2.4
APR										
11...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	72	11	24	60	3.0	1.4	75	0	62	2.4
JUL										
18...	--	--	--	--	--	--	--	--	--	--
AUG										
15...	--	--	--	--	--	--	--	--	--	--
SEP										
28...	66	7	23	58	2.0	1.3	71	0	58	7.2

WHITE RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT										
12...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
07...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	7.8	2.7	.19	.04	.37	.41	.60	2.7	.01	.00
APR										
11...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	8.4	3.6	.24	.04	.14	.18	.42	1.9	.00	.00
JUL										
18...	--	--	--	--	--	--	--	--	--	--
AUG										
15...	--	--	--	--	--	--	--	--	--	--
SEP										
28...	11	3.3	.47	.00	.26	.26	.73	3.2	.02	.00

DATE	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)
OCT										
12...	--	--	--	--	--	--	--	--	--	--
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
07...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	80	1	10	4	50	7	20	.0	7	0
APR										
11...	--	--	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	40	0	10	5	20	4	60	.0	1	10
JUL										
18...	--	--	--	--	--	--	--	--	--	--
AUG										
15...	--	--	--	--	--	--	--	--	--	--
SEP										
28...	60	2	0	5	70	0	80	.0	0	10

07049695 WHITE RIVER ABOVE BUSCH, AR

LOCATION.--Lat 36°26'32", long 93°50'13", temperature recorder on left bank 1.5 mi (2.4 km) south of Busch, Carroll County, Hydrologic Unit 11010001, 100 ft (30 m) upstream from Spider Creek, and 3.4 mi (5.5 km) downstream from Beaver Dam.

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

PERIOD OF RECORD.--October 1968 to August 1969, May 1972 to September 1976, October 1977 to September 1978.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1968 to August 1969, May 1972 to September 1976, October 1977 to September 1978.

INSTRUMENTATION.--Temperature recorder since May 1972.

REMARKS.--Flow regulated by upstream reservoirs.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C Aug. 18, 1975; minimum 0.0°C on several days in December 1977 and January and February 1978.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.0°C Oct. 14, 1977; minimum, 0.0°C on several days in December 1977 and January and February 1978.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.5	15.0	15.5	13.0	7.0	5.5	3.5	.0	3.5	3.0	3.5	3.0
2	16.5	8.0	18.0	10.0	7.0	5.5	---	---	3.5	2.0	3.5	3.0
3	18.5	6.0	12.0	10.0	8.0	5.5	---	---	4.0	2.0	4.0	1.5
4	17.0	5.5	13.0	11.5	8.0	5.5	6.0	4.0	4.0	1.5	4.0	.5
5	15.5	10.0	13.5	12.0	7.0	5.0	6.5	5.5	3.5	1.0	4.0	1.0
6	15.5	10.0	15.5	11.5	5.0	1.0	7.0	3.5	3.0	.0	6.5	2.0
7	13.0	10.0	14.0	7.0	4.5	.0	9.5	1.5	3.0	1.0	5.5	4.5
8	14.0	7.0	12.0	8.0	7.0	4.0	---	---	3.0	1.5	4.5	4.0
9	18.0	3.5	8.0	6.0	6.0	.0	---	---	3.0	2.0	6.0	3.5
10	18.5	9.5	7.0	1.5	---	---	---	---	3.5	2.0	7.0	4.0
11	12.0	4.0	13.5	.5	.5	.0	---	---	4.5	1.5	8.5	5.5
12	16.5	1.0	10.0	3.5	7.0	.5	5.0	2.0	5.0	4.0	8.5	5.5
13	18.5	1.5	9.5	4.0	8.5	7.0	5.5	3.0	3.5	1.0	8.0	3.5
14	21.0	1.5	15.0	3.5	7.0	6.0	5.0	3.5	3.0	1.0	5.0	3.5
15	10.5	3.5	12.0	7.0	8.0	5.0	5.0	3.5	4.0	1.5	3.5	3.0
16	19.5	.5	11.5	8.0	9.5	6.0	5.0	4.0	4.5	1.5	4.5	3.0
17	---	---	---	---	9.0	5.5	4.5	2.0	3.0	1.0	8.0	2.0
18	---	---	---	---	8.5	1.5	4.5	2.0	1.5	.0	9.0	3.0
19	---	---	---	---	7.0	.5	4.5	2.0	1.0	.0	12.0	8.0
20	---	---	---	---	4.5	.0	4.5	2.0	.5	.0	13.0	4.5
21	---	---	---	---	1.0	.0	4.0	2.0	1.0	.0	10.0	4.5
22	---	---	---	---	---	---	4.5	1.0	1.0	.0	11.5	4.5
23	---	---	---	---	---	---	4.5	2.0	3.5	.0	5.5	4.0
24	---	---	---	---	---	---	4.5	4.0	8.0	2.0	6.0	4.0
25	---	---	---	---	---	---	4.0	3.0	6.5	5.0	5.0	4.0
26	---	---	---	---	---	---	3.5	.5	6.5	4.5	5.5	3.5
27	---	---	---	---	---	---	4.0	1.5	5.0	3.0	6.0	4.5
28	---	---	---	---	---	---	3.5	1.0	4.5	3.5	6.0	4.5
29	17.0	11.0	7.0	5.5	---	---	4.0	.5	---	---	6.0	4.5
30	16.5	9.0	6.5	5.0	4.0	.0	3.5	2.0	---	---	---	---
31	18.5	13.5	---	---	4.0	3.0	4.5	3.0	---	---	---	---
MONTH	21.0	.5	18.0	.5	9.5	.0	9.5	.0	8.0	.0	13.0	.5

WHITE RIVER BASIN

07049695 WHITE RIVER ABOVE BUSCH, AR--CONTINUED

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	7.0	5.5	14.0	6.0	11.0	7.0	10.5	8.0
2			---	---	6.0	5.5	16.5	7.0	11.5	7.0	12.0	7.0
3			---	---	8.5	6.0	9.5	6.0	8.0	7.0	13.0	7.0
4			---	---	14.0	6.0	10.5	6.0	---	---	12.0	8.0
5			---	---	7.0	6.0	14.0	6.0	---	---	9.5	8.0
6			7.0	5.0	6.0	5.5	9.5	6.0	---	---	10.0	8.0
7			7.0	5.0	6.5	5.5	9.0	6.5	---	---	10.0	8.0
8			5.5	5.0	8.0	6.0	13.0	6.5	---	---	---	---
9			6.0	5.0	6.5	6.0	16.5	13.0	---	---	---	---
10			6.5	5.0	10.0	5.5	17.0	6.5	---	---	---	---
11			6.5	5.5	10.0	5.5	10.0	6.5	---	---	---	---
12			6.5	5.5	6.5	5.5	9.0	6.5	---	---	---	---
13			7.0	5.5	8.0	5.5	9.0	6.5	---	---	---	---
14			6.0	5.5	6.5	5.5	9.0	6.5	---	---	---	---
15			6.5	5.5	6.0	5.5	15.5	7.0	---	---	---	---
16			9.0	5.5	6.5	5.5	15.0	8.0	---	---	14.5	8.0
17			11.0	5.5	11.5	5.5	10.5	6.5	---	---	14.0	8.5
18			8.5	5.5	7.0	5.5	10.0	6.5	---	---	11.0	8.0
19			9.5	5.5	9.0	6.0	10.5	6.5	---	---	11.0	8.5
20			8.0	5.5	7.0	6.0	10.5	7.0	---	---	14.0	8.5
21			6.0	5.0	10.0	6.0	8.0	6.5	---	---	14.0	8.5
22			7.0	5.5	9.0	6.0	10.0	6.5	8.5	7.0	14.0	8.5
23			6.5	5.5	8.5	6.0	13.0	6.5	12.0	8.0	---	---
24			6.5	5.5	8.5	6.0	11.5	7.0	12.0	8.0	13.0	8.5
25			8.0	5.5	9.0	6.0	9.5	7.0	8.0	7.0	9.0	8.0
26			8.0	5.5	10.0	6.0	9.5	7.0	10.5	8.0	9.5	8.5
27			9.5	5.5	9.5	6.0	12.0	6.5	13.0	8.0	14.5	8.5
28			10.0	5.5	9.0	6.0	9.5	6.5	9.5	7.0	9.5	8.5
29			7.0	5.5	8.5	6.0	9.5	7.0	10.5	8.0	---	---
30			6.0	5.5	9.5	6.0	13.0	7.0	13.0	9.0	---	---
31			6.5	5.5	---	---	11.0	7.0	10.0	8.0	---	---
MONTH			11.0	5.0	14.0	5.5	17.0	6.0	13.0	7.0	14.5	7.0

07050000 WHITE RIVER AT BEAVER, AR

LOCATION.--Lat 36°28'28", long 93°45'54" (revised), in NE¼SE¼ sec.20 T.21, N., R.26 W., Carroll County, Hydrologic Unit 11010001, at bridge on State Highway 187, 0.4 mi (0.6 km) downstream from Butler Creek, and 13 mi (21 km) downstream from Beaver Dam.

DRAINAGE AREA.--1,244 mi² (3,222 km²).

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	156	7.6	14.0	0	10.7	103	--	12	89
NOV											
15...	9827	9827	182	7.5	15.0	0	8.8	86	1.6	60	--
DEC											
14...	9827	9827	246	7.8	10.5	0	10.9	97	1.1	28	--
JAN											
30...	9827	9827	145	7.4	5.0	0	11.4	89	2.0	<4	58
FEB											
20...	9827	9827	197	7.7	5.0	0	12.8	100	2.2	<3	--
MAR											
13...	9827	9827	--	--	--	--	--	--	--	40	--
20...	9827	9827	196	7.9	15.5	0	11.3	112	1.3	8	--
APR											
11...	9827	9827	169	7.8	11.0	5	12.4	112	2.6	110	72
MAY											
09...	9827	9827	150	7.7	12.0	5	11.5	106	--	35	--
JUN											
06...	9827	9827	148	7.7	18.0	5	9.8	103	1.4	--	--
JUL											
11...	9827	9827	150	7.2	16.0	5	9.2	92	--	47	64
AUG											
08...	9827	9827	147	7.7	17.0	0	10.0	103	2.0	4	--
SEP											
05...	9827	9827	146	7.4	14.0	5	7.6	73	2.3	20	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
18...	30	3.3	2.1	1.2	66	8.0	4.5	--	1	.14
NOV										
15...	--	--	--	--	--	6.0	5.0	92	19	.26
DEC										
14...	--	--	--	--	--	7.0	4.0	136	1	.21
JAN										
30...	18	3.0	2.2	1.2	64	5.0	4.5	84	4	.15
FEB										
20...	--	--	--	--	--	12	4.0	123	1	.19
MAR										
13...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	5.0	4.0	108	1	.15
APR										
11...	22	4.1	2.2	1.4	77	5.0	4.5	--	4	.12
MAY										
09...	--	--	--	--	--	6.0	5.0	79	3	.15
JUN										
06...	--	--	--	--	--	5.0	4.5	83	9	--
JUL										
11...	22	2.0	2.6	1.5	64	5.0	5.5	87	6	.39
AUG										
08...	--	--	--	--	--	9.0	5.0	92	3	.35
SEP										
05...	--	--	--	--	--	--	5.0	91	4	.47

07050000 WHITE RIVER AT BEAVER, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
18...	<.05	.14	.05	.01	<10	<5	<10	70	<10	17
NOV										
15...	<.05	.27	.05	.01	--	--	--	--	--	--
DEC										
14...	<.05	.21	<.05	.02	--	--	--	--	--	--
JAN										
30...	<.05	.16	<.05	.01	<10	<5	<20	70	<10	33
FEB										
20...	.01	.20	.13	.02	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
20...	<.01	.15	.02	--	--	--	--	--	--	--
APR										
11...	.01	.13	.03	.02	<10	10	30	140	<10	21
MAY										
09...	.01	.16	.06	.04	--	--	--	--	--	--
JUN										
06...	<.01	.30	.01	.02	--	--	--	--	--	--
JUL										
11...	.01	.40	.08	.21	<10	<5	<20	230	<10	53
AUG										
08...	.01	.36	.01	.04	--	--	--	--	--	--
SEP										
05...	.01	.48	.10	.09	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
18...	--	<10	--	--	--	--	--	--	--	--
NOV										
15...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	<10	--	--	--	--	--	--	--	--
FEB										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
APR										
11...	--	<10	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07050500 KINGS RIVER NEAR BERRYVILLE, AR

LOCATION.--Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, Hydrologic Unit 11010001, on right bank at downstream side of bridge on State Highway 143, 1.5 mi (2.4 km) downstream from Bee Creek, 2.5 mi (4.0 km) upstream from Clabber Creek, 5.3 mi (8.5 km) northwest of Berryville, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--527 mi² (1,365 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
18...	9827	9827	267	8.0	15.5	0	11.2	111	--	25	170	51
NOV												
15...	9827	9827	235	7.8	--	0	10.7	--	1.7	64	--	--
DEC												
14...	9827	9827	225	8.0	10.0	35	10.7	95	1.8	1500	--	--
JAN												
30...	9827	9827	241	7.9	3.0	5	14.2	105	3.4	<3	120	31
FEB												
20...	9827	9827	211	8.0	4.0	5	13.0	99	2.7	1300	--	--
MAR												
20...	9827	9827	182	8.0	15.0	5	11.0	108	2.8	27	--	--
APR												
11...	9827	9827	187	7.8	14.0	30	9.6	92	3.1	<3	75	19
MAY												
09...	9827	9827	162	7.7	16.5	40	9.5	96	--	560	--	--
JUN												
06...	9827	9827	231	8.0	21.0	5	8.5	94	3.7	1000	--	--
JUL												
11...	9827	9827	270	8.2	29.0	5	8.9	114	--	67	130	35
AUG												
08...	9827	9827	277	8.4	26.0	0	9.2	112	3.6	50	--	--
SEP												
05...	9827	9827	283	8.4	27.0	5	9.4	116	5.6	330	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
18...	9.1	2.4	1.4	130	4.0	5.5	--	3	.38	<.05	.39
NOV											
15...	--	--	--	--	4.0	5.5	129	5	.42	<.05	.43
DEC											
14...	--	--	--	--	6.0	5.5	146	31	.73	<.05	.74
JAN											
30...	9.0	2.0	.8	120	6.0	5.5	138	2	.58	<.05	.59
FEB											
20...	--	--	--	--	3.0	4.0	126	2	.58	.01	.59
MAR											
20...	--	--	--	--	3.0	4.0	108	7	.52	.01	.53
APR											
11...	6.0	1.3	1.3	87	4.0	5.5	124	34	.48	.01	.49
MAY											
09...	--	--	--	--	4.0	4.5	106	46	.54	.01	.55
JUN											
06...	--	--	--	--	2.0	4.0	128	19	.59	.01	.60
JUL											
11...	9.0	2.7	1.6	140	2.0	5.5	160	8	--	.01	--
AUG											
08...	--	--	--	--	5.0	8.5	164	9	.47	.01	.48
SEP											
05...	--	--	--	--	--	10	166	7	.07	.01	.08

07050500 KINGS RIVER NEAR BERRYVILLE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
18...	.35	.85	1.2	1.6	7.0	.05	<10	<5	<10	70	<10
NOV											
15...	.05	.65	.70	1.1	5.0	.09	--	--	--	--	--
DEC											
14...	.08	.00	.08	.82	3.6	.14	--	--	--	--	--
JAN											
30...	.05	.55	.60	1.2	5.3	.04	<10	<5	<20	120	<10
FEB											
20...	.07	--	<.10	--	--	.05	--	--	--	--	--
MAR											
20...	.08	.22	.30	.83	3.7	--	--	--	--	--	--
APR											
11...	.05	.24	.30	.79	3.5	.08	<10	20	20	1300	<10
MAY											
09...	.99	--	--	--	--	.13	--	--	--	--	--
JUN											
06...	.03	--	--	--	--	.40	--	--	--	--	--
JUL											
11...	.19	.01	.20	--	--	.26	<10	<5	<20	<30	<10
AUG											
08...	.01	.29	.30	.78	3.5	.35	--	--	--	--	--
SEP											
05...	.08	.42	.50	.58	2.6	.42	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
12...	13	--	<10	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN											
30...	5	--	<10	--	--	--	--	--	--	--	--
FEB											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	69	--	<10	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	28	<1.0	10	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, Hydrologic Unit 11010003, at dam on White River, 6.3 mi (10.1 km) northeast of Flippin, 12.5 mi (20.1 km) downstream from Little North Fork, and at mile 418.6 (673.5 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
12...	1028	1028	.0	250	20.5	216	8.4
12...	1028	1028	10	250	20.5	--	8.4
12...	1028	1028	20	250	20.5	--	8.3
12...	1028	1028	30	250	20.5	--	8.3
12...	1028	1028	40	250	20.5	--	8.2
12...	1028	1028	50	250	20.5	--	8.2
12...	1028	1028	60	255	20.0	--	7.7
12...	1028	1028	63	255	18.0	--	4.0
12...	1028	1028	65	255	17.5	--	3.8
12...	1028	1028	70	255	15.5	--	3.8
12...	1028	1028	75	255	14.0	--	4.1
12...	1028	1028	80	255	12.5	--	4.5
12...	1028	1028	85	250	11.5	--	5.0
12...	1028	1028	90	250	10.5	--	5.7
12...	1028	1028	100	245	9.5	--	6.4
12...	1028	1028	110	245	9.0	--	6.7
12...	1028	1028	120	240	8.5	--	6.4
12...	1028	1028	130	240	8.0	--	5.8
12...	1028	1028	140	240	7.5	--	4.8
12...	1028	1028	150	245	7.0	--	3.6
12...	1028	1028	160	245	7.0	--	2.9
12...	1028	1028	165	250	7.0	--	1.4

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV								
09...	1028	1028	.0	255	7.9	17.5	198	8.0
09...	1028	1028	10	255	7.9	18.0	--	8.0
09...	1028	1028	20	255	7.9	18.0	--	7.9
09...	1028	1028	30	255	7.8	18.0	--	7.8
09...	1028	1028	40	255	7.8	18.0	--	7.8
09...	1028	1028	50	255	7.8	18.0	--	7.8
09...	1028	1028	60	255	7.6	18.0	--	7.6
09...	1028	1028	65	255	7.6	18.0	--	5.0
09...	1028	1028	70	260	7.6	17.0	--	3.1
09...	1028	1028	75	260	7.7	16.5	--	1.2
09...	1028	1028	80	260	7.7	15.5	--	.8
09...	1028	1028	90	255	7.7	14.5	--	1.3
09...	1028	1028	95	250	7.7	13.0	--	2.3
09...	1028	1028	100	245	7.7	12.0	--	2.5
09...	1028	1028	110	245	7.7	11.0	--	3.5
09...	1028	1028	120	240	7.6	10.0	--	4.1
09...	1028	1028	130	240	7.6	9.5	--	4.4
09...	1028	1028	140	240	7.7	8.5	--	3.3
09...	1028	1028	150	240	7.7	8.0	--	2.6
09...	1028	1028	160	245	7.7	7.5	--	1.6
09...	1028	1028	165	250	7.7	7.0	--	.8

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC								
07...	1028	1028	.0	240	8.1	12.0	180	8.2
07...	1028	1028	10	240	8.2	12.0	--	8.2
07...	1028	1028	20	240	8.2	12.0	--	8.2
07...	1028	1028	30	245	8.2	12.0	--	8.2
07...	1028	1028	40	245	8.2	12.0	--	8.2
07...	1028	1028	50	245	8.2	12.0	--	8.3
07...	1028	1028	60	250	8.2	12.0	--	8.3
07...	1028	1028	70	250	8.2	12.0	--	8.4
07...	1028	1028	80	250	8.2	12.0	--	8.5
07...	1028	1028	90	250	8.3	12.0	--	8.6
07...	1028	1028	100	250	8.3	12.0	--	8.7
07...	1028	1028	110	250	8.2	12.0	--	8.3
07...	1028	1028	115	250	8.2	12.0	--	7.1
07...	1028	1028	120	250	8.1	11.5	--	6.4
07...	1028	1028	125	245	8.0	11.0	--	1.0
07...	1028	1028	130	245	8.0	10.5	--	.8
07...	1028	1028	140	240	8.0	9.5	--	.5
07...	1028	1028	150	240	8.0	9.5	--	.1
07...	1028	1028	160	240	8.0	9.0	--	.0
07...	1028	1028	168	240	8.0	8.5	--	.0
JAN								
05...	1028	1028	.0	250	7.7	8.5	126	10.4
05...	1028	1028	10	250	7.7	8.5	--	10.4
05...	1028	1028	20	250	7.7	8.5	--	10.4
05...	1028	1028	30	250	7.7	8.5	--	10.4
05...	1028	1028	40	260	7.8	8.5	--	10.4
05...	1028	1028	50	260	7.8	8.5	--	10.4
05...	1028	1028	60	260	7.8	8.5	--	10.4
05...	1028	1028	70	260	7.8	8.5	--	10.4
05...	1028	1028	80	260	7.8	8.5	--	10.4
05...	1028	1028	90	260	7.8	8.5	--	10.3
05...	1028	1028	100	260	7.9	8.5	--	10.3
05...	1028	1028	110	260	7.7	8.5	--	10.4
05...	1028	1028	120	260	7.7	8.5	--	10.4
05...	1028	1028	130	260	7.7	8.5	--	10.4
05...	1028	1028	140	260	7.5	8.5	--	10.4
05...	1028	1028	150	260	7.4	8.5	--	10.6
05...	1028	1028	160	260	7.4	8.5	--	10.4
05...	1028	1028	169	260	7.4	8.5	--	10.4

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
17...	1028	1028	.0	180	240	8.2	3.5	--	--	192	12.3
17...	1028	1028	10	--	240	8.2	3.5	--	--	--	12.3
17...	1028	1028	20	--	240	8.2	3.5	--	--	--	12.3
17...	1028	1028	30	--	240	8.1	3.5	--	--	--	12.3
17...	1028	1028	36	180	240	8.1	3.5	1	.50	--	12.3
17...	1028	1028	40	--	240	8.2	3.5	--	--	--	12.3
17...	1028	1028	50	--	240	8.1	3.5	--	--	--	12.3
17...	1028	1028	60	--	240	8.1	3.5	--	--	--	12.3
17...	1028	1028	70	--	240	8.3	3.5	--	--	--	12.3
17...	1028	1028	80	--	240	8.4	3.5	--	--	--	12.3
17...	1028	1028	90	--	240	8.5	3.5	--	--	--	12.3
17...	1028	1028	100	--	240	8.3	3.5	--	--	--	12.2
17...	1028	1028	110	--	240	8.1	3.5	--	--	--	12.2
17...	1028	1028	120	--	240	8.1	3.5	--	--	--	12.2
17...	1028	1028	130	--	240	8.3	3.5	--	--	--	12.2
17...	1028	1028	140	--	240	8.3	3.5	--	--	--	12.2
17...	1028	1028	144	180	240	8.0	3.5	1	.50	--	12.2
17...	1028	1028	150	--	240	8.4	3.5	--	--	--	12.2
17...	1028	1028	160	--	240	8.4	3.5	--	--	--	12.2
17...	1028	1028	170	--	240	8.5	3.5	--	--	--	12.2

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
MAR											
17...	--	0	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.3	--	140	15	37	92	11	1.5	150	0	120
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.3	--	140	12	36	90	11	1.5	150	0	120
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	1.9	6.3	3.1	.15	.01	.31	.32	.47	2.1	.11	.00
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	2.4	7.0	4.0	.15	.00	.41	.41	.56	2.5	.11	.00
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
MAR										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	30	1	0	2	20	1	20	.0	0	20
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	20	2	0	2	30	2	20	.0	0	20
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BASIN

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
APR								
11...	1028	1028	.0	270	7.9	12.0	234	10.2
11...	1028	1028	10	270	7.9	12.0	--	10.2
11...	1028	1028	20	270	8.0	11.5	--	10.0
11...	1028	1028	30	260	8.0	11.5	--	10.1
11...	1028	1028	40	260	8.1	11.0	--	10.2
11...	1028	1028	50	260	8.2	10.5	--	10.2
11...	1028	1028	60	260	8.2	10.0	--	10.4
11...	1028	1028	65	260	8.2	8.0	--	10.8
11...	1028	1028	70	270	8.2	6.5	--	10.8
11...	1028	1028	80	270	8.2	5.5	--	10.9
11...	1028	1028	90	270	8.2	5.5	--	11.1
11...	1028	1028	100	280	8.2	5.0	--	11.2
11...	1028	1028	110	280	8.3	4.5	--	11.2
11...	1028	1028	120	280	8.3	4.5	--	11.2
11...	1028	1028	130	280	8.3	4.5	--	11.3
11...	1028	1028	140	280	8.3	4.0	--	11.2
11...	1028	1028	150	280	8.3	4.0	--	11.2
11...	1028	1028	160	280	8.3	4.0	--	11.2
11...	1028	1028	170	280	8.3	4.0	--	11.0
11...	1028	1028	177	280	8.2	4.0	--	10.4
MAY								
10...	1028	1028	.0	240	7.8	15.0	379	10.8
10...	1028	1028	10	240	7.8	15.0	--	10.8
10...	1028	1028	20	240	7.8	15.0	--	10.8
10...	1028	1028	30	250	7.9	15.0	--	10.8
10...	1028	1028	40	260	8.0	14.0	--	11.0
10...	1028	1028	45	260	8.0	13.0	--	11.0
10...	1028	1028	50	260	8.0	12.0	--	11.0
10...	1028	1028	55	260	7.9	11.0	--	11.0
10...	1028	1028	60	260	7.9	10.5	--	11.0
10...	1028	1028	65	260	7.9	9.5	--	11.1
10...	1028	1028	70	260	7.8	9.0	--	11.1
10...	1028	1028	80	260	7.8	8.5	--	11.1
10...	1028	1028	90	260	7.7	7.5	--	11.2
10...	1028	1028	95	260	7.7	6.5	--	11.5
10...	1028	1028	100	260	7.7	6.0	--	11.5
10...	1028	1028	110	260	7.7	5.5	--	11.5
10...	1028	1028	120	260	7.7	5.0	--	11.6
10...	1028	1028	130	260	7.7	5.0	--	11.6
10...	1028	1028	140	260	7.7	5.0	--	11.6
10...	1028	1028	150	260	7.7	5.0	--	11.6
10...	1028	1028	160	260	7.7	5.0	--	11.4
10...	1028	1028	170	260	7.7	5.0	--	11.4
10...	1028	1028	180	260	7.7	5.0	--	11.4

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JUN											
19...	1028	1028	.0	175	240	8.8	25.0	--	--	256	9.0
19...	1028	1028	10	--	240	8.8	24.5	--	--	--	9.0
19...	1028	1028	20	--	240	8.7	22.5	--	--	--	11.6
19...	1028	1028	25	175	240	8.9	18.0	2	.50	--	10.5
19...	1028	1028	30	--	240	8.8	17.0	--	--	--	11.4
19...	1028	1028	40	--	240	8.1	15.0	--	--	--	8.2
19...	1028	1028	50	--	260	8.0	14.0	--	--	--	7.6
19...	1028	1028	60	--	260	7.8	13.0	--	--	--	7.4
19...	1028	1028	70	--	260	7.8	12.5	--	--	--	7.4
19...	1028	1028	80	--	260	7.6	12.0	--	--	--	7.4
19...	1028	1028	90	--	260	7.6	11.5	--	--	--	7.4
19...	1028	1028	100	175	240	8.8	17.0	3	.20	--	10.4
19...	1028	1028	110	--	260	7.6	9.5	--	--	--	7.5
19...	1028	1028	120	--	260	7.6	8.5	--	--	--	7.6
19...	1028	1028	130	--	260	7.6	7.0	--	--	--	7.6
19...	1028	1028	140	--	260	7.6	6.0	--	--	--	7.8
19...	1028	1028	150	--	260	7.6	6.0	--	--	--	8.0
19...	1028	1028	160	--	260	7.6	5.5	--	--	--	8.0
19...	1028	1028	170	--	260	7.6	5.5	--	--	--	7.8
19...	1028	1028	175	--	260	7.6	5.5	--	--	--	7.4

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
JUN											
19...	--	0	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	1.3	--	150	--	40	100	13	1.4	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	1.7	--	150	15	37	92	13	1.5	160	0	130
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	8.0	3.9	.07	.06	.24	.24	.31	1.4	.01	.00
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.4	7.8	3.9	.23	.03	.23	.26	.49	2.2	.00	.00
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
JUN										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	4	0	0	25	40	9	0	.0	[illegible]	20
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	4	0	10	40	0	11	0	.0	5	40
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JUL								
19...	1028	1028	.0	230	8.7	28.0	211	8.2
19...	1028	1028	10	240	8.7	28.0	--	8.2
19...	1028	1028	15	220	8.7	27.0	--	10.2
19...	1028	1028	17	230	8.7	26.0	--	12.0
19...	1028	1028	18	230	8.7	25.0	--	13.0
19...	1028	1028	20	230	8.7	23.5	--	15.2
19...	1028	1028	22	230	8.8	22.0	--	16.2
19...	1028	1028	23	230	8.8	21.5	--	16.6
19...	1028	1028	24	230	8.8	20.5	--	16.4
19...	1028	1028	25	230	8.8	20.5	--	15.8
19...	1028	1028	26	230	8.8	19.5	--	15.8
19...	1028	1028	27	230	8.8	18.5	--	15.2
19...	1028	1028	28	240	8.8	18.0	--	14.8
19...	1028	1028	30	240	8.8	17.5	--	13.6
19...	1028	1028	32	240	8.6	16.5	--	12.0
19...	1028	1028	35	250	8.5	16.0	--	10.6
19...	1028	1028	40	260	8.2	15.5	--	9.2
19...	1028	1028	50	260	7.9	14.5	--	7.5
19...	1028	1028	60	260	7.8	13.5	--	6.8
19...	1028	1028	70	260	7.7	13.0	--	6.6
19...	1028	1028	80	260	7.7	12.5	--	6.7
19...	1028	1028	90	260	7.7	12.0	--	6.8
19...	1028	1028	100	260	7.7	11.5	--	7.1
19...	1028	1028	110	260	7.7	11.0	--	7.5
19...	1028	1028	120	260	7.7	10.0	--	7.6
19...	1028	1028	130	260	7.7	9.0	--	7.2
19...	1028	1028	140	270	7.7	8.0	--	7.0
19...	1028	1028	150	270	7.7	7.0	--	6.8
19...	1028	1028	160	270	7.7	6.5	--	6.6
19...	1028	1028	170	270	7.7	6.0	--	6.3
19...	1028	1028	175	270	7.7	6.0	--	5.7
AUG								
16...	1028	1028	.0	240	8.7	28.0	234	8.8
16...	1028	1028	10	240	8.6	27.5	--	8.9
16...	1028	1028	20	240	8.6	27.5	--	9.1
16...	1028	1028	21	240	8.5	26.5	--	9.5
16...	1028	1028	23	240	8.5	26.0	--	11.8
16...	1028	1028	24	240	8.5	25.0	--	13.4
16...	1028	1028	25	240	8.6	24.0	--	15.6
16...	1028	1028	27	240	8.7	23.0	--	16.8
16...	1028	1028	28	240	8.7	21.0	--	16.8
16...	1028	1028	29	240	8.8	20.5	--	15.6
16...	1028	1028	30	240	8.6	19.5	--	15.6
16...	1028	1028	32	260	8.7	18.5	--	14.6
16...	1028	1028	35	260	8.5	17.5	--	11.4
16...	1028	1028	40	260	8.2	16.0	--	10.0
16...	1028	1028	45	280	7.9	15.5	--	8.2
16...	1028	1028	50	280	7.8	14.5	--	7.1
16...	1028	1028	60	280	7.7	14.0	--	6.3
16...	1028	1028	70	280	7.6	13.5	--	6.0
16...	1028	1028	80	280	7.6	13.0	--	6.1
16...	1028	1028	90	280	7.6	12.5	--	6.2
16...	1028	1028	100	280	7.6	12.0	--	6.5
16...	1028	1028	110	280	7.6	11.5	--	6.8
16...	1028	1028	120	280	7.6	10.5	--	7.1
16...	1028	1028	130	280	7.6	10.0	--	6.9
16...	1028	1028	140	280	7.6	9.0	--	6.1
16...	1028	1028	150	280	7.6	8.0	--	6.0
16...	1028	1028	160	280	7.6	7.0	--	5.7
16...	1028	1028	170	280	7.6	6.5	--	5.6
16...	1028	1028	177	280	7.5	6.0	--	5.6

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
SEP								
13...	1028	1028	.0	250	8.4	25.5	174	10.6
13...	1028	1028	10	250	8.4	25.5	--	10.6
13...	1028	1028	15	250	8.5	25.0	--	10.9
13...	1028	1028	20	240	8.5	24.0	--	14.3
13...	1028	1028	22	250	8.4	23.0	--	14.8
13...	1028	1028	25	250	8.5	22.0	--	19.2
13...	1028	1028	27	250	8.5	21.0	--	19.0
13...	1028	1028	30	250	8.6	20.0	--	19.0
13...	1028	1028	33	260	8.6	18.5	--	14.8
13...	1028	1028	35	260	8.4	18.0	--	13.2
13...	1028	1028	40	270	8.1	17.0	--	10.2
13...	1028	1028	45	270	7.7	16.0	--	7.9
13...	1028	1028	50	270	7.7	15.0	--	6.4
13...	1028	1028	60	270	7.5	14.0	--	5.2
13...	1028	1028	70	270	7.5	13.5	--	5.0
13...	1028	1028	80	270	7.6	13.0	--	5.1
13...	1028	1028	90	270	7.5	12.5	--	5.6
13...	1028	1028	100	280	7.5	12.0	--	5.6
13...	1028	1028	110	280	7.5	11.5	--	5.8
13...	1028	1028	120	280	7.5	11.0	--	6.0
13...	1028	1028	130	270	7.4	10.0	--	5.9
13...	1028	1028	140	270	7.5	9.5	--	5.4
13...	1028	1028	150	270	7.5	8.5	--	4.2
13...	1028	1028	160	280	7.4	7.5	--	3.1
13...	1028	1028	170	280	7.4	7.0	--	2.6
13...	1028	1028	180	280	7.4	6.5	--	1.9
13...	1028	1028	.0	240	8.3	25.5	144	10.2
13...	1028	1028	10	240	8.5	25.5	--	10.4
13...	1028	1028	15	240	8.6	25.5	--	10.3
13...	1028	1028	17	240	8.7	24.5	--	13.8
13...	1028	1028	18	250	8.7	23.5	--	14.6
13...	1028	1028	20	240	8.7	22.5	--	17.2
13...	1028	1028	24	240	8.7	21.5	--	17.4
13...	1028	1028	27	240	8.6	20.5	--	16.2
13...	1028	1028	30	240	8.6	20.0	--	16.0
13...	1028	1028	36	260	8.6	19.0	--	14.6
13...	1028	1028	40	260	8.5	18.0	--	12.6
13...	1028	1028	45	270	8.1	16.5	--	9.5
13...	1028	1028	50	270	7.8	16.0	--	8.0

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
SEP							
13...	1028	1028	60	270	7.6	15.0	5.7
13...	1028	1028	70	270	7.5	14.0	4.8
13...	1028	1028	80	280	7.5	13.0	4.8
13...	1028	1028	90	280	7.5	12.5	5.1
13...	1028	1028	100	280	7.5	12.0	5.4
13...	1028	1028	110	270	7.5	11.5	5.7
13...	1028	1028	120	270	7.5	11.0	5.8
13...	1028	1028	130	270	7.4	10.0	5.5
13...	1028	1028	140	280	7.4	9.5	4.9
13...	1028	1028	150	280	7.4	8.0	3.9
13...	1028	1028	160	280	7.3	7.5	3.2
13...	1028	1028	170	280	7.3	6.5	2.4
13...	1028	1028	175	290	7.3	6.5	.3

07054501 WHITE RIVER AT BULL SHOALS DAM, AR

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, Hydrologic Unit 11010003, at dam on White River, 11.9 mi (19.1 km) upstream from gaging station, 6.3 mi (10.1 km) northwest of Flippin, 12.5 mi (20.1 km) downstream from Little North Fork, and at mile 418.6 (673.5 km).

DRAINAGE AREA.--6,051 mi^2 (15,670 km^2).

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT										
12...	1028	1028	245	--	10.0	--	--	9.1	--	--
17...	9827	9827	237	7.7	11.0	0	--	6.4	58	.3
NOV										
09...	1028	1028	245	7.8	12.0	--	--	5.3	--	--
14...	9827	9827	252	--	11.0	0	--	4.4	40	.7
DEC										
07...	1028	1028	240	8.0	11.0	--	--	8.4	--	--
12...	9827	9827	251	--	9.0	0	--	7.5	65	1.5
JAN										
05...	1028	1028	260	7.4	8.5	--	--	11.7	--	--
24...	9827	9827	241	7.9	6.0	0	--	11.5	92	.9
FEB										
13...	9827	9827	255	8.2	4.0	0	--	11.1	85	.4
MAR										
13...	9827	9827	257	8.1	4.0	0	--	12.6	96	2.6
17...	1028	1028	230	8.2	4.0	2	.50	12.9	102	.3
APR										
10...	9827	9827	261	8.1	7.0	0	--	10.0	82	--
11...	1028	1028	250	8.1	5.5	--	--	11.2	--	--
MAY										
08...	9827	9827	277	8.1	8.0	0	--	11.8	99	1.8
10...	1028	1028	240	8.0	6.5	--	--	11.9	--	--
JUN										
05...	9827	9827	271	8.1	9.0	5	--	10.0	86	1.2
19...	1028	1028	260	7.8	9.0	2	.40	7.2	--	.8
JUL										
10...	9827	9827	283	8.1	15.0	5	--	8.6	8	3.1
19...	1028	1028	260	7.8	10.5	--	--	6.9	--	--
AUG										
07...	9827	9827	281	7.9	15.0	0	--	9.0	88	1.2
16...	1028	1028	280	7.8	12.5	--	--	10.1	--	--
SEP										
05...	9827	9827	299	7.7	16.0	5	--	9.3	93	1.6
13...	1028	1028	270	7.4	11.0	--	--	6.9	--	--
13...	1028	1028	270	7.6	11.5	--	--	7.6	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)
OCT									
12...	--	--	--	--	--	--	--	--	--
17...	30	4	--	150	--	44	--	--	9.3
NOV									
09...	--	--	--	--	--	--	--	--	--
14...	90	<4	--	--	--	--	--	--	--
DEC									
07...	--	--	--	--	--	--	--	--	--
12...	60	8	--	--	--	--	--	--	--
JAN									
05...	--	--	--	--	--	--	--	--	--
24...	<10	10	--	130	--	30	--	--	12
FEB									
13...	10	<4	--	--	--	--	--	--	--
MAR									
13...	15	8	--	--	--	--	--	--	--
17...	--	--	1	140	16	--	36	90	--
APR									
10...	5	4	--	130	--	32	--	--	12
11...	--	--	--	--	--	--	--	--	--
MAY									
08...	270	<6	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
JUN									
05...	170	20	--	--	--	--	--	--	--
19...	--	--	12	160	26	--	45	112	--
JUL									
10...	110	--	--	140	--	36	--	--	11
14...	--	--	--	--	--	--	--	--	--
AUG									
07...	270	8	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
SEP									
05...	40	8	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
17...	--	2.3	1.4	--	--	110	--	4.0	5.0	136
NOV										
14...	--	--	--	--	--	--	--	--	5.5	144
DEC										
12...	--	--	--	--	--	--	--	7.0	7.0	145
JAN										
24...	--	2.3	1.5	--	--	130	--	--	5.0	132
FEB										
13...	--	--	--	--	--	--	--	5.0	5.0	140
MAR										
13...	--	--	--	--	--	--	--	1.0	5.0	139
17...	12	--	1.5	150	0	120	1.5	7.9	5.1	--
APR										
10...	--	2.2	1.6	--	--	140	--	5.0	5.5	141
MAY										
08...	--	--	--	--	--	--	--	8.0	6.0	--
JUN										
05...	--	--	--	--	--	--	--	3.0	6.0	--
19...	11	--	1.4	160	0	130	4.1	8.3	4.5	--
JUL										
10...	--	2.9	1.6	--	--	140	--	3.0	6.0	172
AUG										
07...	--	--	--	--	--	--	--	2.0	6.5	170
SEP										
05...	--	--	--	--	--	--	--	--	6.5	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
OCT										
17...	3	.71	<.05	.71	.11	--	--	--	--	.01
NOV										
14...	3	.23	.00	.23	<.05	--	--	--	--	.01
DEC										
12...	2	.19	<.05	.20	<.05	--	--	--	--	.01
JAN										
24...	1	.13	<.05	.13	<.05	--	--	--	--	.04
FEB										
13...	1	.12	<.01	.12	.04	--	--	--	--	.01
MAR										
13...	4	.14	<.01	.15	--	--	--	--	--	.02
17...	--	--	--	.14	.01	.13	.14	.28	1.2	.11
APR										
10...	3	.17	.01	.18	.05	--	--	--	--	.01
MAY										
08...	4	.25	.01	.26	.04	--	--	--	--	.06
JUN										
05...	7	--	<.01	.29	.72	--	--	--	--	<.01
19...	--	--	--	.35	.00	1.3	1.3	1.7	7.3	.01
JUL										
10...	1	.41	<.01	.41	<.01	--	--	--	--	.07
AUG										
07...	6	--	<.01	.47	.05	--	--	--	--	.01
SEP										
05...	5	.57	.01	.58	.07	--	--	--	--	.02

DATE	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)	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)
OCT										
17...	--	--	<5	<10	10	<10	<30	<10	15	--
NOV										
14...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
24...	--	--	<5	<10	<5	<20	<30	<10	83	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
17...	.00	30	1	--	0	1	80	1	20	.0
APR										
10...	--	--	<5	<10	6	<20	110	10	14	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
19...	.00	3	0	--	0	5	20	5	30	.0
JUL										
10...	--	--	<5	<10	<5	<20	<30	40	61	<1.0
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
14...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
24...	--	<10	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
17...	0	10	--	--	--	--	--	--	--	--
APR										
10...	--	<10	--	--	--	--	--	--	--	--
MAY										
02...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	.00	.00	.00	.00	.00	.00	.00	0
19...	3	10	--	--	--	--	--	--	--	--
JUL										
10...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
07...	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP										
05...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07055000 WHITE RIVER NEAR FLIPPIN, AR

LOCATION.--Lat 36°18'35", long 92°33'28", NE¼NW¼ sec.10, T.19 N., R.15 W., Marion County, Hydrologic Unit 11010003, on right bank 1.4 mi (2.3 km) upstream from Hightower Creek, 3.2 mi (5.1 km) northeast of Flippin, 11.9 mi (19.1 km) downstream from Bull Shoals Dam, 11.8 mi (19.0 km) upstream from Crooked Creek, and at mile 406.7 (654.4 km).

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 419.66 ft (127.912 m) National Geodetic Vertical Datum of 1929. (Corps of Engineers bench mark). Prior to Dec. 21, 1938, nonrecording gage at site 1.1 mi (1.7 km) upstream at datum 1.52 ft (0.463 m) higher.

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

AVERAGE DISCHARGE.--50 years, 6,028 ft^3/s (171 m^3/s), 4,367,000 acre-ft/yr (5,380 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,000 ft^3/s (793 m^3/s) Nov. 26, gage height, 13.25 ft (4.039 m); minimum daily, 238 ft^3/s (6.74 m^3/s) Oct. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	461	880	893	4500	3450	3120	11800	4300	7880	4580	1800	2180
2	436	974	331	7210	2450	3230	11400	8040	8000	2170	631	1890
3	1220	689	258	1570	3540	2910	14400	10900	6610	6560	1690	6960
4	416	645	259	789	4290	2360	16500	11500	7020	4660	313	8100
5	697	375	1520	684	5460	1010	16500	11000	8600	9060	648	8810
6	619	348	2170	448	4630	393	16900	11500	7020	8280	2740	9720
7	629	5390	6040	352	5830	3320	19900	7770	7580	3990	1670	13300
8	524	4060	1260	3000	4300	3090	21100	6650	7000	2610	2720	4010
9	291	6900	5170	14100	3680	1640	20700	1560	7130	1420	1680	654
10	788	5570	2610	11400	2940	1620	21400	7550	7780	2030	1610	1430
11	1040	3690	2540	9400	1070	2620	21400	19400	3160	2030	910	1230
12	4630	4250	2720	10300	909	1120	25600	18500	8010	6390	2680	1580
13	4310	1760	3060	7480	4910	4030	25500	20100	7550	9180	1690	1180
14	2350	7330	7450	5080	5510	5400	25600	20600	8280	7400	6420	1510
15	751	10400	4370	2720	1850	3630	25700	20000	7390	4110	3770	1920
16	1510	8250	2450	9070	3200	3800	25900	19900	7590	3090	2710	6830
17	5600	9410	1510	7730	2700	3380	26100	21200	2950	9480	4530	5010
18	7050	11500	1710	5330	1270	2240	23800	23300	2600	8670	6820	7790
19	7780	2940	3520	3130	1410	742	20200	17700	7080	7520	2220	9430
20	6060	787	5390	4020	3500	2300	20400	10600	6560	7980	597	9800
21	4130	8750	6230	794	4000	2760	15900	8790	8290	5810	3880	2400
22	1880	7200	5170	544	6050	1660	8820	8370	9420	4170	4210	1030
23	294	3770	3290	1050	5790	6810	3580	10800	10800	1930	4200	639
24	2040	727	3090	1640	3730	7610	7540	11300	5680	585	8440	560
25	6970	4760	4230	4320	1510	2770	6930	11500	5620	2670	8710	2000
26	2040	19500	3910	6610	1280	2750	7790	10300	9480	3810	4490	1760
27	3230	7890	1700	1950	3810	3480	6830	10600	10200	879	1810	1940
28	1180	11500	3620	1870	5080	2450	4740	9070	9210	4260	1980	1670
29	428	11300	3100	1190	---	7890	982	10800	10300	5740	1120	2170
30	238	5940	1280	1330	---	10200	286	10000	9600	2450	474	1930
31	2220	---	2180	3790	---	11400	---	6500	---	1230	983	---
TOTAL	71812	167485	93031	133401	98149	111735	474198	380100	224390	144744	88146	119433
MEAN	2317	5583	3001	4303	3505	3604	15810	12260	7480	4669	2843	3981
MAX	7780	19500	7450	14100	6050	11400	26100	23300	10800	9480	8710	13300
MIN	238	348	258	352	909	393	286	1560	2600	585	313	560
AC-FT	142400	332200	184500	264600	194700	221600	940600	753900	445100	287100	174800	236900

CAL YR 1977 TOTAL 1107972 MEAN 3036 MAX 19500 MIN 238 AC-FT 2198000
WTR YR 1978 TOTAL 2106624 MEAN 5772 MAX 26100 MIN 238 AC-FT 4178000

07055500 WHITE RIVER AT COTTER, AR

LOCATION.--Lat 36°16'02", long 92°32'39", in NW¼NW¼ sec.26, T.19 N., R.15 W., Marion County, Hydrologic Unit 11010003, temperature recorder on right bank, 300 ft (91 m) downstream from bridge on U.S. Highway 62, 2.0 mi (3.2 km) southwest of Cotter, 3.3 mi (5.3 km) downstream from Hightower Creek, and 17.0 mi (27.4 km) downstream from Bull Shoals Dam.

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

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

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

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C Sept. 20, 1954; minimum, 0.0°C Feb. 8, 1971, Jan. 18, 31, 1977, February and March 1978.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C July 25; minimum, 0.0°C on many days during February and March.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	15.5	12.0	11.0	10.5	8.0	6.5	4.5	3.0	1.5	3.0	1.5
2	18.5	14.5	12.0	10.5	10.0	6.5	6.5	4.0	4.0	2.0	1.5	1.5
3	15.5	11.5	13.5	11.0	9.5	6.5	6.5	3.5	3.0	1.5	2.0	1.0
4	15.5	10.0	13.5	12.0	8.5	8.0	6.5	3.5	4.0	1.5	3.5	.0
5	14.5	10.0	---	---	8.0	5.0	8.5	6.0	4.0	1.5	5.5	.0
6	15.0	11.5	---	---	8.0	3.5	7.0	6.0	3.0	.0	7.0	2.0
7	10.5	9.0	---	---	8.5	4.0	9.0	5.0	2.0	.5	6.0	2.0
8	12.0	10.5	---	---	8.5	6.0	8.5	3.5	1.5	1.0	2.0	1.5
9	15.0	9.5	---	---	8.5	2.0	5.0	3.0	3.0	1.0	3.5	1.5
10	16.0	11.5	---	---	8.0	6.0	5.5	3.5	4.0	1.5	5.5	1.0
11	13.5	9.5	---	---	8.0	6.0	4.5	3.5	5.5	1.5	6.0	3.0
12	11.0	8.5	---	---	8.0	7.0	5.0	4.0	5.0	3.0	8.0	2.0
13	10.5	8.0	---	---	9.0	8.0	5.0	4.5	3.5	1.5	6.5	3.0
14	11.0	8.0	11.0	8.5	9.5	7.0	4.5	3.0	2.0	1.5	4.0	2.0
15	11.5	8.5	11.0	9.5	9.5	7.0	4.0	3.0	3.0	1.5	2.0	1.0
16	13.0	8.0	11.5	10.0	9.0	8.0	4.5	3.5	2.0	1.5	5.5	1.5
17	10.5	7.0	12.0	9.5	9.5	7.0	4.5	2.0	2.0	1.0	5.0	1.5
18	10.5	8.5	11.0	9.5	9.0	6.5	4.0	2.0	4.5	.0	6.0	1.5
19	10.5	8.5	11.0	10.0	9.0	6.0	3.5	3.0	3.5	.0	11.0	5.0
20	11.0	8.5	14.0	10.5	8.0	6.0	4.0	2.0	3.0	.5	11.0	5.5
21	11.5	9.0	11.5	9.5	7.0	5.5	4.0	1.0	2.0	.0	9.5	5.0
22	14.0	9.5	10.0	9.0	8.5	5.5	4.5	1.5	3.5	.0	9.5	3.5
23	14.0	10.5	11.0	10.0	8.5	6.5	4.5	2.0	4.0	1.5	8.0	3.5
24	13.5	9.5	11.5	9.0	9.0	6.0	5.0	4.0	4.5	1.0	8.5	3.0
25	11.5	9.5	10.5	8.5	7.0	5.0	4.0	1.5	6.5	2.0	4.0	3.0
26	14.0	9.5	10.0	9.0	7.0	4.5	3.5	.5	5.0	1.0	4.0	3.0
27	14.0	9.5	10.5	9.0	6.0	4.0	3.5	1.0	3.0	1.5	7.0	3.0
28	12.0	9.5	10.0	8.5	8.0	4.0	4.0	.5	3.0	1.5	11.5	4.0
29	15.0	11.0	10.0	9.0	6.0	5.0	4.5	1.0	---	---	9.0	3.5
30	15.0	11.5	9.5	9.0	6.5	6.0	3.0	1.5	---	---	6.0	3.5
31	14.5	10.0	---	---	6.0	6.0	4.0	2.0	---	---	5.5	3.5
MONTH	20.0	7.0	14.0	8.5	10.5	2.0	9.0	.5	6.5	.0	11.5	.0

07055500 WHITE RIVER AT COTTER, AR--CONTINUED

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	3.5	13.5	5.5	12.0	7.0	17.0	9.5	20.5	13.0	19.0	12.0
2	6.0	4.5	7.0	4.5	11.0	8.0	19.5	9.5	20.0	12.0	18.0	10.5
3	4.5	3.5	5.0	4.5	12.0	8.0	18.0	10.0	19.5	13.5	18.0	10.5
4	5.5	3.5	6.5	5.0	11.0	7.0	18.0	9.5	15.0	13.5	18.0	10.5
5	5.0	3.5	6.5	5.5	10.5	8.0	17.0	9.5	16.5	14.5	18.0	10.5
6	5.5	4.0	8.0	5.0	12.0	8.0	17.0	9.5	15.5	12.0	17.0	10.5
7	5.5	4.0	12.0	5.5	12.0	8.0	19.0	9.5	20.0	13.0	15.5	10.0
8	5.5	4.0	9.0	6.5	13.0	8.0	20.0	10.5	19.5	11.0	17.0	10.5
9	5.0	4.0	14.0	6.5	14.5	8.0	19.5	10.5	19.5	11.0	18.5	11.5
10	7.0	4.0	11.0	6.0	14.5	8.0	20.5	13.0	16.5	11.5	19.5	15.0
11	5.5	4.0	7.0	5.5	16.0	8.0	18.0	11.0	19.5	13.5	16.5	12.0
12	5.5	3.5	7.0	6.0	13.0	8.5	20.0	9.5	20.5	11.5	19.5	13.0
13	5.5	4.0	10.0	6.0	13.5	8.0	15.5	9.5	19.5	10.5	17.0	13.0
14	5.0	3.5	10.0	8.5	14.5	8.0	17.0	9.5	18.5	10.5	18.0	13.5
15	5.0	4.0	9.0	7.0	16.0	9.0	20.0	10.0	19.5	10.0	18.5	12.0
16	5.0	4.0	8.5	7.0	16.0	8.5	18.5	10.0	19.5	11.0	18.5	11.5
17	5.0	4.0	8.0	6.0	19.0	9.0	16.0	9.5	20.0	11.0	18.5	10.5
18	6.0	4.0	8.0	6.5	14.0	9.5	16.5	9.5	19.0	10.5	19.0	11.0
19	7.0	5.0	8.5	6.5	15.5	9.0	17.0	9.5	16.0	10.5	17.0	11.0
20	8.0	5.0	9.0	7.0	13.0	8.5	16.5	10.0	19.5	12.0	16.5	11.0
21	7.0	5.5	9.0	6.5	12.0	8.5	17.0	10.0	21.0	10.0	13.5	11.0
22	9.0	5.5	8.5	6.5	11.5	9.0	18.0	10.5	18.5	10.0	16.0	11.5
23	12.0	5.5	9.5	6.5	10.5	8.5	19.5	10.5	18.5	10.5	17.0	12.0
24	10.5	5.5	10.5	7.0	13.0	9.0	19.0	12.0	17.0	10.5	18.5	13.5
25	7.0	5.0	10.5	7.0	18.0	9.0	23.5	11.0	16.0	10.5	17.0	13.5
26	8.5	5.0	11.0	7.0	13.0	9.5	19.5	10.0	17.0	10.5	19.0	11.0
27	9.0	5.0	13.0	7.0	13.5	9.0	20.0	11.0	19.0	10.5	16.0	10.5
28	10.0	5.0	9.5	7.0	15.5	9.0	20.5	10.0	16.0	10.5	16.5	11.0
29	11.5	5.5	11.0	7.0	15.0	9.0	20.0	10.0	13.5	11.0	18.0	12.0
30	15.0	10.5	11.0	7.0	15.0	9.5	19.5	10.0	16.5	13.5	16.5	11.0
31	---	---	14.5	7.0	---	---	20.0	12.0	20.0	14.0	---	---
MONTH	15.0	3.5	14.5	4.5	19.0	7.0	23.5	9.5	21.0	10.0	19.5	10.0
YEAR	23.5	.0										

07055600 CROOKED CREEK AT PYATT, AR

LOCATION.--Lat 36°14'45", long 92°50'04", SW¼ sec.31, T.19 N., R.17 W., Marion County, Hydrologic Unit 11010003, at bridge on U.S. Highway 62, 0.7 mi (1.1 km) southeast of Pyatt, 2.3 mi (3.7 km) upstream from Clear Creek.

DRAINAGE AREA.--207 mi² (536 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	349	8.1	12.0	0	9.3	86	.7	52	200
NOV											
14...	9827	9827	349	--	9.0	0	10.9	94	1.0	40	--
DEC											
12...	9827	9827	334	--	6.0	0	11.5	92	1.9	83	--
JAN											
24...	9827	9827	335	8.0	3.0	0	12.1	90	1.7	8	170
FEB											
13...	9827	9827	331	8.1	4.0	5	11.4	87	3.0	24	--
MAR											
13...	9827	9827	299	8.0	10.0	0	10.6	94	1.6	23	--
APR											
10...	9827	9827	305	8.1	18.0	0	9.2	97	1.9	92	150
MAY											
08...	9827	9827	226	7.9	16.0	50	8.5	89	1.4	1400	--
JUN											
05...	9827	9827	306	8.1	21.0	5	8.5	94	2.0	260	--
JUL											
10...	9827	9827	312	8.1	28.0	5	7.7	97	1.9	80	140
AUG											
07...	9827	9827	288	8.1	24.0	0	8.0	94	1.7	31	--
SEP											
05...	9827	9827	302	7.9	25.0	5	7.4	88	3.1	210	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	70	5.9	5.5	1.7	170	2.0	9.5	201	3	.71
NOV										
14...	--	--	--	--	--	--	8.5	206	4	.81
DEC										
12...	--	--	--	--	--	7.0	6.5	203	2	1.5
JAN										
24...	53	8.0	4.6	1.0	160	--	8.5	183	4	.61
FEB										
13...	--	--	--	--	--	5.0	7.5	183	14	.51
MAR										
13...	--	--	--	--	--	<1.0	6.0	168	6	.89
APR										
10...	49	5.6	2.7	1.2	150	2.0	5.5	173	5	.70
MAY										
08...	--	--	--	--	--	5.0	5.0	--	51	.79
JUN										
05...	--	--	--	--	--	1.0	5.5	--	24	.70
JUL										
10...	48	5.0	5.5	1.7	150	1.0	7.5	193	22	.49
AUG										
07...	--	--	--	--	--	<1.0	6.5	174	15	--
SEP										
05...	--	--	--	--	--	--	9.0	--	12	.39

07055600 CROOKED CREEK AT PYATT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.71	<.05	.03	<10	10	<10	60	<10	24
NOV										
14...	<.05	.81	<.05	.02	--	--	--	--	--	--
DEC										
12...	<.05	1.5	<.05	.05	--	--	--	--	--	--
JAN										
24...	<.05	.62	<.05	.05	<10	<5	<20	<30	20	54
FEB										
13...	.01	.52	.24	.02	--	--	--	--	--	--
MAR										
13...	.01	.90	--	.03	--	--	--	--	--	--
APR										
10...	.01	.71	.05	.03	<10	6	20	160	<10	63
MAY										
08...	.01	.80	.04	.12	--	--	--	--	--	--
JUN										
05...	.01	.71	.09	<.01	--	--	--	--	--	--
JUL										
10...	<.01	.69	.01	.09	<10	<5	<20	290	<10	120
AUG										
07...	<.01	.52	.05	.03	--	--	--	--	--	--
SEP										
05...	.01	.40	.08	.03	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	<10	--	--	--	--	--	--	--	--
NOV										
14...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
24...	--	40	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	<10	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	1.2	60	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07056000 BUFFALO RIVER NEAR ST. JOE, AR

LOCATION.--Lat 35°59'02", long 92°44'44", in SW¼SW¼ sec.36, T.16 N., R.17 W., Searcy County, Hydrologic Unit 11010005, near right bank on downstream side of bridge on U.S. Highway 65, 1.6 mi (2.6 km) downstream from Mill Creek, 5.4 mi (8.7 km) upstream from Bear Creek, 4.5 mi (7.2 km) southeast of St. Joe, and at mile 58.3 (93.8 km).

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

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft (170.795 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 1, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years, 1,033 ft^3/s (29.2 m^3/s), 16.92 in/yr (430 mm/yr), 748,400 acre-ft/yr (923 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 13,000 ft^3/s (370 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	1845	*32,500	920	24.07	7.337
May 7	2245	22,900	649	20.23	6.166

Minimum discharge, 36 ft^3/s (1.02 m^3/s) Sept. 26, 27, 30, gage height, 3.43 ft (1.045 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1770	239	1650	314	479	1910	1510	4380	521	165	84	35
2	1020	331	2060	288	450	1940	1300	4100	706	150	84	36
3	704	4680	1550	269	411	3560	1160	3730	677	145	86	39
4	515	3320	1240	256	378	2890	1110	6070	553	136	80	35
5	395	2000	2440	247	349	2250	1480	5160	745	127	77	38
6	321	1420	2820	240	324	1910	1400	3360	2030	123	74	38
7	275	1100	1970	235	304	1880	1110	9770	3560	118	70	35
8	247	906	1590	230	294	3010	1010	12700	2070	116	68	37
9	223	775	1340	223	280	2910	960	5190	1460	116	65	36
10	205	1300	1070	215	269	2420	960	3360	1060	101	64	35
11	187	943	888	209	259	2100	1730	2540	815	102	61	36
12	171	748	792	207	258	1810	1730	2160	664	102	61	36
13	158	627	772	201	1370	1630	1460	1890	549	98	53	38
14	149	536	1950	198	2690	2290	1260	1490	461	98	56	50
15	140	468	2090	197	1960	2140	1130	1220	395	117	46	55
16	132	1420	1650	205	1560	2500	1040	1040	345	143	46	53
17	126	3680	1560	224	1280	3130	963	906	305	190	50	49
18	120	2060	1290	241	1120	2930	978	837	274	150	47	45
19	114	1460	1080	252	974	2500	1020	853	257	125	47	44
20	111	1160	924	248	880	2140	928	785	246	110	45	40
21	109	1260	786	240	823	2660	840	1210	265	98	42	46
22	105	1450	694	233	733	3440	785	1380	708	96	43	45
23	102	1190	620	231	679	2790	769	1430	459	94	40	42
24	144	1020	562	247	719	20500	737	1180	372	98	38	43
25	1360	874	509	417	810	14500	677	938	304	110	38	43
26	1090	747	455	739	971	5780	622	780	258	125	36	41
27	678	647	400	752	981	3940	577	667	227	110	35	38
28	484	564	361	670	1320	3060	534	596	205	95	34	40
29	368	494	337	602	---	2490	517	553	190	89	34	40
30	300	484	332	548	---	2040	793	503	172	85	34	39
31	260	---	330	513	---	1760	---	455	---	98	36	---
TOTAL	12083	37903	36112	9891	22929	110900	31090	81233	20853	3630	1674	1227
MEAN	390	1263	1165	319	819	3577	1036	2620	695	117	54.0	40.9
MAX	1770	4680	2820	752	2690	20500	1730	12700	3560	190	86	55
MIN	102	239	330	197	258	1630	517	455	172	85	34	35
CFSM	.47	1.52	1.41	.39	.99	4.32	1.25	3.16	.84	.14	.07	.05
IN.	.54	1.70	1.62	.44	1.03	4.98	1.40	3.65	.94	.16	.08	.06
AC-FT	23970	75180	71630	19620	45480	220000	61670	161100	41360	7200	3320	2430

CAL YR 1977 TOTAL 261034 MEAN 715 MAX 37800 MIN 50 CFSM .86 IN 11.71 AC-FT 517800
WTR YR 1978 TOTAL 369525 MEAN 1012 MAX 20500 MIN 34 CFSM 1.22 IN 16.58 AC-FT 733000

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

WATER-QUALITY RECORDS

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
17...	9827	9827	--	255	8.2	12.0	0	9.6	89	.6	68	20
NOV												
14...	9827	9827	--	192	--	11.0	0	9.7	87	.7	340	12
21...	1028	--	1.3	--	--	--	--	--	--	--	--	--
DEC												
12...	9827	9827	--	179	--	7.0	0	11.7	96	1.8	53	20
19...	1028	--	1130	--	--	--	--	--	--	--	--	--
JAN												
23...	1028	--	232	--	--	7.0	--	--	--	--	--	--
24...	9827	9827	--	221	7.9	5.0	0	12.0	94	1.3	<10	<4
FEB												
13...	9827	9827	--	206	8.0	6.0	50	11.5	92	2.8	1100	410
MAR												
07...	1028	--	1690	--	--	6.0	--	--	--	--	--	--
13...	9827	9827	--	183	7.9	9.0	5	11.3	97	1.3	47	<4
APR												
10...	9827	9827	--	204	7.9	18.0	0	8.7	92	1.1	23	24
25...	1028	--	670	--	--	16.5	--	--	--	--	--	--
MAY												
08...	9827	9827	--	130	7.8	16.0	80	9.1	91	2.5	2400	1200
JUN												
05...	9827	9827	--	202	7.9	21.0	10	8.0	89	3.9	25	--
05...	1028	--	885	--	--	22.5	--	--	--	--	--	--
JUL												
10...	9827	9827	--	243	8.0	27.0	5	7.3	90	2.0	110	110
25...	1028	--	108	--	--	33.5	--	--	--	--	--	--
AUG												
07...	9827	9827	--	237	8.1	24.0	0	7.9	93	1.0	60	14
29...	1028	--	35	--	--	25.0	--	--	--	--	--	--
SEP												
05...	9827	9827	--	202	7.9	27.0	5	6.5	80	2.1	50	20

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
17...	150	53	3.8	2.3	1.1	120	3.0	4.5	145	4	.19	<.05
NOV												
14...	--	--	--	--	--	--	--	3.5	117	1	.27	<.05
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
12...	--	--	--	--	--	--	6.0	4.0	114	<1	.11	<.05
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	100	34	4.0	1.9	.7	100	--	4.5	118	5	.09	<.05
FEB												
13...	--	--	--	--	--	--	7.0	4.5	137	57	.21	.01
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	4.0	3.5	92	4	--	--
APR												
10...	91	32	2.7	1.5	.8	97	4.0	4.0	116	3	.11	.01
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	5.0	4.0	--	114	.13	.01
JUN												
05...	--	--	--	--	--	--	2.0	4.0	--	195	.19	.02
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	110	39	3.0	1.9	1.1	120	1.0	4.5	159	6	.10	<.01
25...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	--	--	--	--	--	--	1.0	4.5	147	8	--	<.01
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	--	--	--	--	--	--	--	5.0	--	4	.04	.01

07056000 BUFFALO RIVER NEAR ST. JOR, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT												
17...	.19	<.05	--	--	--	--	.01	<5	20	10	<10	90
NOV												
14...	.27	.15	.55	.70	.97	4.3	.01	--	<10	--	<20	220
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
12...	.12	<.05	--	.50	.62	2.7	.01	<3	<10	--	<20	160
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	.09	.06	.94	1.0	1.1	4.8	.04	<5	<10	<5	30	1100
FEB												
13...	.22	.04	--	--	--	--	.15	--	<10	--	<20	2600
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
13...	.19	--	--	.90	1.1	4.8	.01	--	<10	--	<20	130
APR												
10...	.16	.03	.17	.20	.32	1.4	.02	<5	<10	6	20	120
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	.14	.05	--	--	--	--	.23	--	<10	--	20	4800
JUN												
05...	.21	.10	--	--	--	--	.01	--	<10	--	<20	4500
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	.10	.02	.08	.10	.20	.90	.09	<5	<10	<5	<20	130
25...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	.06	.04	.26	.30	.36	1.6	.01	--	<10	--	20	320
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	.05	.07	.43	.50	.55	2.4	.02	--	<10	--	<20	1300

DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT												
17...	<10	34	--	20	--	--	--	--	--	--	--	--
NOV												
14...	--	27	--	<10	.00	.00	.00	.00	.00	.00	.00	0
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
12...	--	<8	--	<10	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	110	61	--	140	--	--	--	--	--	--	--	--
FEB												
13...	--	68	--	20	--	--	--	--	--	--	--	--
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	270	--	<10	--	--	--	--	--	--	--	--
APR												
10...	<10	14	--	<10	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	240	--	20	--	--	--	--	--	--	--	--
JUN												
05...	--	220	--	20	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	<10	22	E11	<10	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	--	40	--	<10	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	--	140	--	40	--	--	--	--	--	--	--	--

07057370 WHITE RIVER NEAR NORFORK, AR

LOCATION.--Lat 36°13'24", long 92°18'06", in sec.17, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010004, at bridge on State Highway 341, and 1.7 mi (2.7 km) northwest of Norfork.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	261	8.2	14.0	0	10.8	104	1.0	4	160
NOV											
14...	9827	9827	239	--	11.0	0	11.2	101	.9	8	--
DEC											
12...	9827	9827	257	--	9.0	0	10.4	90	1.1	13	--
JAN											
24...	9827	9827	286	8.3	5.0	0	12.9	101	1.5	4	140
FEB											
13...	9827	9827	302	8.2	5.0	5	11.9	93	2.0	51	--
MAR											
13...	9827	9827	251	8.1	9.0	5	11.4	98	.9	<4	--
APR											
10...	9827	9827	271	8.0	9.0	0	11.4	98	1.1	4	140
MAY											
08...	9827	9827	183	7.9	16.0	90	8.4	84	3.5	3000	--
JUN											
05...	9827	9827	279	8.1	14.0	10	9.9	95	.7	270	--
JUL											
10...	9827	9827	284	8.2	24.0	5	10.2	120	1.2	96	140
AUG											
07...	9827	9827	278	8.3	18.0	0	10.5	111	1.2	<4	--
SEP											
05...	9827	9827	284	8.0	16.0	0	8.6	86	.9	40	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	47	10	2.6	1.5	130	5.0	6.0	154	4	.27
NOV										
14...	--	--	--	--	--	--	5.0	134	6	.23
DEC										
12...	--	--	--	--	--	7.0	5.5	150	7	.17
JAN										
24...	35	13	2.6	1.2	140	--	5.5	149	4	.12
FEB										
13...	--	--	--	--	--	5.0	5.0	170	3	.19
MAR										
13...	--	--	--	--	--	1.0	5.0	134	11	.25
APR										
10...	33	12	2.5	1.5	130	3.0	5.5	179	15	.19
MAY										
08...	--	--	--	--	--	6.0	7.0	--	469	.24
JUN										
05...	--	--	--	--	--	5.0	6.5	--	17	.26
JUL										
10...	37	11	3.7	1.6	140	2.0	6.5	176	5	.26
AUG										
07...	--	--	--	--	--	4.0	7.0	170	71	--
SEP										
05...	--	--	--	--	--	--	6.5	--	7	.46

07057370 WHITE RIVER NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.27	<.05	.01	20	20	10	30	<10	29
NOV										
14...	<.05	.23	.08	.01	<10	--	40	1100	--	37
DEC										
12...	<.05	.18	<.05	.02	--	--	50	1000	--	95
JAN										
24...	<.05	.12	<.05	.05	<10	<5	20	140	40	75
FEB										
13...	<.01	.19	.24	.02	<10	--	<20	240	--	79
MAR										
13...	.01	.26	--	.02	<10	--	70	1300	--	610
APR										
10...	.01	.20	.06	.02	10	20	90	2300	170	240
MAY										
04...	.02	.26	.11	.44	10	--	160	12800	--	820
JUN										
05...	.01	.27	.03	.01	<10	--	<20	670	--	35
JUL										
10...	<.01	.26	.01	.08	10	<5	<20	260	40	50
AUG										
07...	<.01	.35	.59	.05	30	--	240	4500	--	92
SEP										
05...	.01	.47	.07	.03	<10	--	<20	110	--	90

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	10	--	--	--	--	--	--	--	--
NOV										
14...	--	60	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	110	--	--	--	--	--	--	--	--
JAN										
24...	--	30	--	--	--	--	--	--	--	--
FEB										
13...	--	20	--	--	--	--	--	--	--	--
MAR										
13...	--	30	--	--	--	--	--	--	--	--
APR										
10...	--	100	--	--	--	--	--	--	--	--
MAY										
08...	--	310	--	--	--	--	--	--	--	--
JUN										
05...	--	<10	--	--	--	--	--	--	--	--
JUL										
10...	1.5	150	--	--	--	--	--	--	--	--
AUG										
07...	--	170	--	--	--	--	--	--	--	--
SEP										
05...	--	20	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR

LOCATION.--Lat 36°14'57", long 92°14'16", in SE¼ sec.2, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, at dam on North Fork River, 4.3 mi (6.9 km) northeast of Norfork, and at mile 4.8 (7.7 km).
DRAINAGE AREA.--1,808 mi² (4,683 km²).
PERIOD OF RECORD.--Water years 1968-69, 1971-72, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
13...	1028	1028	.0	320	20.0	168	8.0
13...	1028	1028	10	320	20.5	--	7.8
13...	1028	1028	20	320	20.5	--	7.7
13...	1028	1028	30	320	20.5	--	7.7
13...	1028	1028	40	320	20.5	--	7.7
13...	1028	1028	50	320	20.5	--	7.6
13...	1028	1028	55	320	20.5	--	7.6
13...	1028	1028	57	335	19.0	--	2.1
13...	1028	1028	60	340	17.0	--	.6
13...	1028	1028	65	340	14.5	--	.5
13...	1028	1028	70	340	13.0	--	1.1
13...	1028	1028	80	340	11.5	--	2.7
13...	1028	1028	90	345	10.5	--	2.6
13...	1028	1028	100	345	10.0	--	2.5
13...	1028	1028	110	350	10.0	--	2.5
13...	1028	1028	120	355	9.5	--	2.0
13...	1028	1028	130	360	9.5	--	1.5
13...	1028	1028	140	360	9.0	--	.5
13...	1028	1028	150	365	9.0	--	.3
13...	1028	1028	156	390	9.0	--	.2

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV								
10...	1028	1028	.0	320	8.1	17.5	216	9.6
10...	1028	1028	10	320	--	17.5	--	9.5
10...	1028	1028	20	320	--	17.5	--	9.4
10...	1028	1028	30	325	--	17.5	--	9.4
10...	1028	1028	40	325	--	17.5	--	9.4
10...	1028	1028	50	325	--	17.5	--	9.4
10...	1028	1028	60	325	--	17.5	--	9.4
10...	1028	1028	64	335	--	17.0	--	6.1
10...	1028	1028	65	345	--	16.0	--	.8
10...	1028	1028	70	345	--	15.0	--	.8
10...	1028	1028	75	340	--	14.0	--	.6
10...	1028	1028	80	340	--	13.5	--	.5
10...	1028	1028	90	340	--	12.5	--	.5
10...	1028	1028	100	345	--	11.0	--	1.4
10...	1028	1028	110	350	--	10.5	--	.9
10...	1028	1028	120	355	--	10.0	--	.6
10...	1028	1028	130	355	--	10.0	--	.5
10...	1028	1028	140	360	--	9.5	--	.5
10...	1028	1028	146	365	--	9.0	--	.5

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC								
08...	1028	1028	.0	325	8.0	12.0	120	8.2
08...	1028	1028	10	325	8.0	12.0	--	8.2
08...	1028	1028	20	325	8.0	12.0	--	8.3
08...	1028	1028	30	325	8.0	12.0	--	8.3
08...	1028	1028	40	325	8.0	12.0	--	8.3
08...	1028	1028	50	330	8.1	12.0	--	8.3
08...	1028	1028	60	330	8.0	12.0	--	8.3
08...	1028	1028	70	330	8.0	12.0	--	8.3
08...	1028	1028	80	330	8.0	12.0	--	8.3
08...	1028	1028	90	330	8.0	12.0	--	8.3
08...	1028	1028	100	335	8.0	12.0	--	6.9
08...	1028	1028	110	340	8.0	11.5	--	5.4
08...	1028	1028	120	355	7.8	11.5	--	.5
08...	1028	1028	130	365	7.8	11.0	--	.0
08...	1028	1028	140	365	7.8	11.0	--	.0
08...	1028	1028	150	370	7.8	10.5	--	.0
08...	1028	1028	152	370	7.8	10.5	--	.0

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JAN								
05...	1028	1028	.0	330	7.8	8.0	102	11.4
05...	1028	1028	10	330	7.8	8.0	--	11.4
05...	1028	1028	20	330	7.8	8.0	--	11.4
05...	1028	1028	30	330	7.7	8.0	--	11.4
05...	1028	1028	40	330	7.7	8.0	--	11.4
05...	1028	1028	50	330	7.7	8.0	--	11.4
05...	1028	1028	60	330	7.7	8.0	--	11.4
05...	1028	1028	70	330	7.7	8.0	--	11.4
05...	1028	1028	80	330	7.8	8.0	--	11.4
05...	1028	1028	90	330	8.0	8.0	--	11.3
05...	1028	1028	100	330	7.7	8.0	--	11.3
05...	1028	1028	110	330	7.3	8.0	--	11.3
05...	1028	1028	120	330	7.3	8.0	--	11.3
05...	1028	1028	130	330	7.3	8.0	--	11.3
05...	1028	1028	140	330	7.3	8.0	--	11.3
05...	1028	1028	150	330	7.3	8.0	--	11.3
05...	1028	1028	152	330	7.3	8.0	--	11.3

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
15...	1028	1028	.0	155	310	8.6	3.5	--	--	218	12.8
15...	1028	1028	10	--	310	8.2	3.5	--	--	--	12.8
15...	1028	1028	20	--	310	8.1	3.5	--	--	--	12.8
15...	1028	1028	25	155	310	8.1	3.5	1	.50	--	12.8
15...	1028	1028	30	--	310	8.1	3.5	--	--	--	12.8
15...	1028	1028	40	--	310	8.3	3.5	--	--	--	12.8
15...	1028	1028	50	--	310	8.3	3.5	--	--	--	12.8
15...	1028	1028	60	--	310	8.3	3.5	--	--	--	12.8
15...	1028	1028	70	--	310	8.5	3.5	--	--	--	12.8
15...	1028	1028	80	--	310	8.5	3.5	--	--	--	12.6
15...	1028	1028	90	--	310	8.5	3.5	--	--	--	12.6
15...	1028	1028	100	155	310	8.5	3.5	1	.50	--	12.6
15...	1028	1028	110	--	310	8.5	3.5	--	--	--	12.6
15...	1028	1028	120	--	310	8.5	3.5	--	--	--	12.6
15...	1028	1028	130	--	310	8.5	3.5	--	--	--	12.6
15...	1028	1028	140	--	310	8.3	3.5	--	--	--	12.6
15...	1028	1028	150	--	310	8.4	3.5	--	--	--	12.6
15...	1028	1028	155	--	310	8.4	3.5	--	--	--	12.6

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
MAR											
15...	--	0	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.8	--	190	15	37	92	23	1.7	210	0	170
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.7	--	190	17	38	95	23	1.5	201	5	173
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	2.7	4.5	2.6	.17	.00	.15	.15	.32	1.4	.11	.00
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	1.1	4.3	2.6	.16	.00	.22	.22	.38	1.7	.07	.00
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
MAR										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	80	1	10	3	90	2	10	.0	3	20
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	30	0	10	2	10	4	10	.0	6	10
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
APR								
12...	1028	1028	.0	320	8.0	13.5	228	11.0
12...	1028	1028	10	320	8.1	13.5	--	11.0
12...	1028	1028	20	320	8.0	13.0	--	11.0
12...	1028	1028	25	330	7.7	11.0	--	11.5
12...	1028	1028	30	330	7.8	10.0	--	11.8
12...	1028	1028	35	330	7.9	9.0	--	12.0
12...	1028	1028	40	320	8.1	8.0	--	12.3
12...	1028	1028	50	320	8.2	7.0	--	12.5
12...	1028	1028	60	310	8.2	6.0	--	12.6
12...	1028	1028	70	310	8.2	5.5	--	12.6
12...	1028	1028	80	310	8.1	5.0	--	12.6
12...	1028	1028	90	310	8.1	5.0	--	12.6
12...	1028	1028	100	310	8.1	4.5	--	12.6
12...	1028	1028	110	320	8.0	4.5	--	12.6
12...	1028	1028	120	320	8.0	4.5	--	12.5
12...	1028	1028	130	320	8.0	4.5	--	12.5
12...	1028	1028	140	320	8.0	4.5	--	12.5
12...	1028	1028	150	320	8.0	4.5	--	12.4
12...	1028	1028	154	320	8.1	4.5	--	12.4

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
MAY								
10...	1028	1028	.0	300	8.3	18.0	223	10.4
10...	1028	1028	10	300	8.2	17.0	--	10.4
10...	1028	1028	20	300	8.2	16.0	--	10.3
10...	1028	1028	25	300	8.2	15.0	--	10.3
10...	1028	1028	30	300	8.1	14.5	--	10.0
10...	1028	1028	35	300	8.1	14.0	--	10.0
10...	1028	1028	40	300	8.1	13.0	--	9.9
10...	1028	1028	45	310	8.1	12.0	--	9.9
10...	1028	1028	50	310	8.1	10.5	--	10.1
10...	1028	1028	60	310	8.1	9.5	--	10.2
10...	1028	1028	65	310	8.1	8.0	--	10.6
10...	1028	1028	70	310	8.1	7.5	--	10.7
10...	1028	1028	80	320	8.1	6.5	--	10.8
10...	1028	1028	90	320	8.1	6.0	--	10.8
10...	1028	1028	100	320	8.1	6.0	--	10.8
10...	1028	1028	110	330	8.1	6.0	--	10.8
10...	1028	1028	120	330	8.1	6.0	--	10.8
10...	1028	1028	130	330	8.1	6.0	--	10.8
10...	1028	1028	140	330	8.1	5.5	--	10.8
10...	1028	1028	150	330	8.0	5.5	--	10.8
10...	1028	1028	160	330	8.0	5.0	--	10.4
10...	1028	1028	165	330	8.0	5.0	--	10.4

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUN											
16...	1028	1028	.0	160	300	8.9	24.5	--	--	186	9.4
16...	1028	1028	15	--	300	9.1	23.0	--	--	--	11.4
16...	1028	1028	20	--	300	9.2	21.0	--	--	--	12.8
16...	1028	1028	25	160	300	9.0	18.0	2	.40	--	11.0
16...	1028	1028	30	--	300	8.8	16.5	--	--	--	9.4
16...	1028	1028	40	--	300	8.5	15.5	--	--	--	8.4
16...	1028	1028	50	--	300	8.5	14.0	--	--	--	7.6
16...	1028	1028	55	--	300	8.3	12.5	--	--	--	7.5
16...	1028	1028	60	--	300	8.3	10.5	--	--	--	7.8
16...	1028	1028	65	--	320	8.3	9.5	--	--	--	7.8
16...	1028	1028	70	--	320	8.2	8.0	--	--	--	8.1
16...	1028	1028	80	--	320	8.2	7.5	--	--	--	8.4
16...	1028	1028	90	--	320	8.3	7.0	--	--	--	8.2
16...	1028	1028	100	160	320	8.4	7.0	1	.20	--	9.0
16...	1028	1028	110	--	320	8.4	6.5	--	--	--	9.1
16...	1028	1028	120	--	320	8.4	6.5	--	--	--	9.1
16...	1028	1028	130	--	320	8.4	6.0	--	--	--	9.2
16...	1028	1028	140	--	320	8.4	6.0	--	--	--	9.3
16...	1028	1028	150	--	320	8.4	6.0	--	--	--	9.4
16...	1028	1028	159	--	320	8.4	6.0	--	--	--	9.1

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
JUN											
16...	--	K290	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	1.5	--	170	12	34	85	21	1.3	190	2	160
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	1.0	--	190	--	37	92	23	1.5	210	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
JUN											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.3	4.6	3.1	.27	.01	.29	.30	.57	2.5	.00	.00
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	1.3	4.0	3.0	.40	.01	.39	.40	.80	3.5	.00	.00
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
JUN										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	60	1	5	15	0	5	0	.0	0	20
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	40	2	0	13	20	2	20	.6	0	20
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JUL								
19...	1028	1028	.0	280	8.6	30.0	180	7.8
19...	1028	1028	10	280	8.7	29.5	--	8.0
19...	1028	1028	15	280	8.7	29.0	--	8.0
19...	1028	1028	17	280	8.7	28.5	--	8.5
19...	1028	1028	18	280	8.7	28.0	--	9.8
19...	1028	1028	20	290	8.7	27.0	--	11.4
19...	1028	1028	21	290	8.6	26.0	--	12.2
19...	1028	1028	23	290	8.7	24.5	--	13.1
19...	1028	1028	25	290	8.7	23.5	--	13.2
19...	1028	1028	27	290	8.7	21.5	--	12.5
19...	1028	1028	30	290	8.6	20.0	--	11.2
19...	1028	1028	33	290	8.4	18.0	--	9.1
19...	1028	1028	35	300	8.3	17.5	--	8.8
19...	1028	1028	40	300	8.2	16.5	--	7.6
19...	1028	1028	45	300	8.1	16.0	--	6.9
19...	1028	1028	50	300	8.0	15.0	--	6.2
19...	1028	1028	60	300	7.9	13.5	--	5.5
19...	1028	1028	70	300	7.9	12.0	--	5.6
19...	1028	1028	75	310	7.9	10.5	--	6.0
19...	1028	1028	80	310	7.9	9.5	--	6.2
19...	1028	1028	90	310	7.9	8.0	--	6.6
19...	1028	1028	100	320	7.9	7.5	--	6.9
19...	1028	1028	110	320	7.9	7.0	--	7.3
19...	1028	1028	120	320	7.9	7.0	--	7.4
19...	1028	1028	130	320	7.9	6.5	--	7.5
19...	1028	1028	140	320	7.9	6.5	--	7.4
19...	1028	1028	150	320	7.9	6.5	--	7.3
19...	1028	1028	157	320	7.9	6.5	--	6.8
AUG								
16...	1028	1028	.0	300	8.4	30.0	168	8.2
16...	1028	1028	10	300	8.4	29.0	--	8.5
16...	1028	1028	20	300	8.4	28.5	--	8.8
16...	1028	1028	24	320	8.3	27.5	--	10.0
16...	1028	1028	25	320	8.2	26.5	--	10.0
16...	1028	1028	26	320	8.2	25.5	--	10.8
16...	1028	1028	28	320	8.3	25.0	--	12.0
16...	1028	1028	30	320	8.4	24.5	--	12.2
16...	1028	1028	32	320	8.4	23.0	--	12.6
16...	1028	1028	35	320	8.4	21.5	--	12.0
16...	1028	1028	37	320	8.4	20.0	--	11.0
16...	1028	1028	40	320	8.3	19.0	--	10.4
16...	1028	1028	45	320	8.0	18.0	--	9.1
16...	1028	1028	50	320	7.8	16.5	--	7.2
16...	1028	1028	55	320	7.7	15.5	--	5.9
16...	1028	1028	60	320	7.6	15.0	--	5.2
16...	1028	1028	70	320	7.6	13.5	--	4.6
16...	1028	1028	75	320	7.6	12.5	--	4.5
16...	1028	1028	80	320	7.6	12.0	--	4.5
16...	1028	1028	90	340	7.6	10.5	--	4.7
16...	1028	1028	100	340	7.6	9.0	--	5.0
16...	1028	1028	110	340	7.5	8.0	--	5.1
16...	1028	1028	120	340	7.5	7.5	--	4.9
16...	1028	1028	130	340	7.5	7.0	--	5.1
16...	1028	1028	140	340	7.6	7.0	--	5.3
16...	1028	1028	150	340	7.6	6.5	--	4.9
16...	1028	1028	160	340	7.6	6.5	--	4.4

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
SEP								
14...	1028	1028	.0	300	8.5	26.0	150	8.6
14...	1028	1028	10	300	8.5	26.0	--	8.6
14...	1028	1028	20	300	8.5	26.0	--	8.5
14...	1028	1028	30	300	8.5	26.0	--	8.5
14...	1028	1028	35	320	8.0	25.0	--	8.0
14...	1028	1028	37	320	7.9	24.0	--	7.1
14...	1028	1028	40	320	7.9	23.0	--	7.6
14...	1028	1028	42	320	7.9	22.0	--	7.0
14...	1028	1028	44	320	7.9	21.0	--	7.1
14...	1028	1028	47	320	7.8	20.0	--	6.3
14...	1028	1028	50	320	7.7	18.5	--	4.8
14...	1028	1028	55	320	7.6	17.0	--	3.5
14...	1028	1028	60	320	7.6	16.0	--	2.8
14...	1028	1028	65	320	7.5	15.0	--	2.7
14...	1028	1028	70	320	7.5	14.5	--	2.7
14...	1028	1028	75	320	7.5	13.5	--	2.7
14...	1028	1028	80	320	7.5	12.5	--	2.8
14...	1028	1028	90	330	7.5	11.0	--	3.2
14...	1028	1028	100	340	7.4	9.5	--	3.2
14...	1028	1028	110	340	7.4	8.5	--	3.2
14...	1028	1028	120	340	7.4	8.0	--	2.9
14...	1028	1028	130	350	7.4	7.5	--	2.8
14...	1028	1028	140	350	7.4	7.5	--	2.8
14...	1028	1028	150	350	7.4	7.5	--	2.4
14...	1028	1028	160	350	7.4	7.0	--	1.0
14...	1028	1028	.0	290	9.0	26.5	156	8.6
14...	1028	1028	10	290	8.9	26.0	--	8.6
14...	1028	1028	20	300	8.8	26.0	--	8.5
14...	1028	1028	30	300	8.7	26.0	--	8.3
14...	1028	1028	32	300	8.6	25.5	--	7.4
14...	1028	1028	34	320	8.0	24.5	--	6.8
14...	1028	1028	35	320	8.0	23.5	--	6.8
14...	1028	1028	40	320	8.0	22.5	--	7.6
14...	1028	1028	42	320	8.0	21.5	--	7.3
14...	1028	1028	45	320	7.8	20.5	--	6.7
14...	1028	1028	47	320	7.7	19.5	--	6.0
14...	1028	1028	49	320	7.7	18.5	--	4.9
14...	1028	1028	50	320	7.7	18.0	--	4.8
14...	1028	1028	54	320	7.6	17.0	--	3.5

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	SAMP- LING DEPTH (FT) (00003)	RESER- VOIR DEPTH (FEET) (72025)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	TRANS- PAR- ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS- SOLVED (MG/L) (00300)
SEP											
14...	1028	1028	55	--	320	7.5	16.5	--	--	--	3.3
14...	1028	1028	60	--	320	7.5	16.0	--	--	--	2.8
14...	1028	1028	65	--	320	7.5	15.0	--	--	--	2.7
14...	1028	1028	70	--	320	7.5	14.0	--	--	--	2.6
14...	1028	1028	75	--	320	7.5	13.0	--	--	--	2.7
14...	1028	1028	80	--	330	7.5	12.5	--	--	--	2.8
14...	1028	1028	90	--	330	7.4	10.5	--	--	--	3.2
14...	1028	1028	100	--	340	7.4	9.5	--	--	--	3.3
14...	1028	1028	110	--	340	7.4	8.5	--	--	--	3.2
14...	1028	1028	120	--	350	7.3	8.0	--	--	--	2.7
14...	1028	1028	130	--	350	7.3	7.5	--	--	--	2.8
14...	1028	1028	140	--	350	7.3	7.5	--	--	--	2.6
14...	1028	1028	150	--	350	7.3	7.0	--	--	--	2.1
14...	1028	1028	158	--	350	7.3	7.0	--	--	--	1.4
29...	1028	1028	.0	157	300	8.7	24.5	--	--	139	9.0
29...	1028	1028	10	--	300	8.6	24.5	--	--	--	8.8
29...	1028	1028	20	--	300	8.6	24.5	--	--	--	8.8
29...	1028	1028	25	157	300	8.6	24.5	2	.60	--	8.7
29...	1028	1028	30	--	300	8.6	24.5	--	--	--	8.6
29...	1028	1028	40	--	300	8.5	24.5	--	--	--	8.5
29...	1028	1028	42	--	320	7.7	22.0	--	--	--	4.0
29...	1028	1028	45	--	320	7.7	21.0	--	--	--	3.8
29...	1028	1028	50	--	320	7.7	19.5	--	--	--	3.2
29...	1028	1028	55	--	320	7.6	17.0	--	--	--	2.0
29...	1028	1028	60	--	320	7.6	16.5	--	--	--	1.9
29...	1028	1028	65	--	320	7.6	15.5	--	--	--	1.7
29...	1028	1028	70	--	320	7.6	15.0	--	--	--	1.7
29...	1028	1028	80	--	320	7.6	13.0	--	--	--	1.8
29...	1028	1028	90	--	320	7.6	11.5	--	--	--	1.9
29...	1028	1028	100	157	320	7.8	9.0	3	.70	--	1.8
29...	1028	1028	110	--	340	7.6	9.0	--	--	--	1.8
29...	1028	1028	120	--	340	7.6	8.5	--	--	--	1.5
29...	1028	1028	130	--	340	7.6	8.0	--	--	--	1.1
29...	1028	1028	140	--	340	7.5	7.5	--	--	--	.9
29...	1028	1028	150	--	340	7.5	7.5	--	--	--	.9
29...	1028	1028	157	--	340	7.5	7.5	--	--	--	.4

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CALCIUM DIS- SOLVED (MG/L AS CACO3) (00910)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	BICAR- BONATE (MG/L AS HCO3) (00440)	CAR- BONATE (MG/L AS CO3) (00445)	ALKA- LINITY (MG/L AS CACO3) (00410)
SEP											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	1	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.8	--	180	10	40	100	20	1.4	190	10	170
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.4	--	190	19	42	105	21	1.4	210	0	170
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)
SEP											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.8	7.0	2.7	.01	.01	.22	.23	.24	1.1	.01	.00
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	5.3	7.4	2.9	.47	.01	.17	.18	.65	2.9	.01	.00
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
SEP										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	50	0	0	2	70	0	0	.0	9	10
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	30	0	0	2	180	0	30	.0	8	10
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

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

LOCATION.--Lat 36°14'18", long 92°14'18", in SE¼SW¼ sec.2, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, at Norfork Dam, 3.9 mi (6.3 km) northeast of Norfork, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--1,808 mi² (4,693 km²).

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

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

REMARKS.--Flow completely regulated by Norfork Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
OCT										
13...	1028	1028	350	--	10.0	--	--	8.8	--	--
NOV										
10...	1028	1028	345	7.4	7.5	--	--	13.4	--	--
DEC										
08...	1028	1028	355	7.8	10.5	--	--	9.6	--	--
JAN										
05...	1028	1028	330	7.9	8.0	--	--	12.0	--	--
MAR										
15...	1028	1028	338	7.6	3.5	2	1.3	13.0	1.4	7
APR										
12...	1028	1028	330	8.3	6.5	--	--	12.4	--	--
MAY										
10...	1028	1028	320	8.0	8.0	--	--	11.4	--	--
JUN										
16...	1028	1028	320	8.4	12.0	1	.20	8.2	1.4	K43
JUL										
19...	1028	1028	310	7.9	9.0	--	--	7.5	--	--
AUG										
16...	1028	1028	340	7.7	10.0	--	--	7.3	--	--
SEP										
14...	1028	1028	340	7.7	8.5	--	--	3.4	--	--
14...	1028	1028	340	8.1	10.5	--	--	8.0	--	--
29...	1028	1028	359	7.9	8.5	4	.50	10.6	2.1	3

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	190	15	37	92	23	1.2	210	0	170	8.4
APR										
12...	--	--	--	--	--	--	--	--	--	--
MAY										
10...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	180	8	36	90	22	1.3	210	0	170	1.3
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
29...	190	13	41	102	22	1.5	220	0	180	4.4

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	5.1	2.4	.17	.08	.08	.16	.33	1.5	.10	.02
APR										
12...	--	--	--	--	--	--	--	--	--	--
MAY										
10...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	5.1	3.4	.33	.01	.34	.35	.68	3.0	.00	.00
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
29...	8.5	3.0	.45	.05	.28	.33	.78	3.5	.10	.05

DATE	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)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	40	1	0	2	40	2	20	.0	6	20
APR										
12...	--	--	--	--	--	--	--	--	--	--
MAY										
10...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	30	1	5	6	20	3	20	.0	0	10
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
29...	40	0	0	7	130	0	60	.0	10	10

07060010 NORTH FORK RIVER AT NORFORK, AR

LOCATION.--Lat 36°12'48", long 92°16'54", in sec.20, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, at Rose Dock downstream from bridge on State Highway 5, 0.2 mi (0.3 km) upstream from mouth.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	361	8.4	11.0	0	12.9	116	2.2	4	240
NOV											
14...	9827	9827	345	--	12.0	0	5.8	54	.6	4	--
DEC											
12...	9827	9827	333	--	11.0	0	9.4	84	.3	<4	--
JAN											
24...	9827	9827	326	8.3	6.0	0	12.4	99	1.1	5	160
FEB											
13...	9827	9827	333	8.2	5.0	5	12.6	98	2.4	22	--
MAR											
13...	9827	9827	325	8.2	4.0	0	12.5	95	3.4	7	--
APR											
10...	9827	9827	335	8.2	7.0	0	12.3	101	1.6	<4	170
MAY											
08...	9827	9827	272	8.3	9.0	0	12.4	107	2.1	10	--
JUN											
05...	9827	9827	333	8.0	15.0	20	8.7	85	2.4	--	--
JUL											
10...	9827	9827	347	8.3	15.0	0	12.7	125	3.0	45	180
AUG											
07...	9827	9827	342	8.3	13.0	0	12.6	119	2.1	20	--
SEP											
05...	9827	9827	348	8.0	15.0	0	8.7	85	2.2	60	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	55	24	1.7	1.4	190	1.0	4.5	194	4	.19
NOV										
14...	--	--	--	--	--	--	4.0	184	5	.19
DEC										
12...	--	--	--	--	--	6.0	4.5	187	2	.08
JAN										
24...	30	21	1.4	1.4	170	--	4.5	164	3	.14
FEB										
13...	--	--	--	--	--	4.0	4.5	183	8	.16
MAR										
13...	--	--	--	--	--	<1.0	4.0	171	7	.16
APR										
10...	34	22	1.5	1.4	180	6.0	5.0	--	--	.21
MAY										
08...	--	--	--	--	--	5.0	5.5	--	4	--
JUN										
05...	--	--	--	--	--	1.0	4.5	--	19	.16
JUL										
10...	36	22	1.4	1.3	190	1.0	4.5	204	2	.20
AUG										
07...	--	--	--	--	--	<1.0	5.0	201	5	--
SEP										
05...	--	--	--	--	--	--	4.5	--	5	.40

WHITE RIVER BASIN

07060010 NORTH FORK RIVER AT NORFORK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.19	.08	.01	<10	<5	10	50	<10	42
NOV										
14...	<.05	.19	<.05	.01	--	--	--	--	--	--
DEC										
12...	<.05	.09	.06	.01	--	--	--	--	--	--
JAN										
24...	<.05	.14	<.05	.05	<10	<5	<20	50	<10	25
FEB										
13...	<.01	.16	.04	.02	--	--	--	--	--	--
MAR										
13...	<.01	.16	--	.01	--	--	--	--	--	--
APR										
10...	.01	.22	.05	.01	<10	10	<20	100	<10	21
MAY										
08...	<.01	.26	.24	.03	--	--	--	--	--	--
JUN										
05...	.01	.17	.07	.01	--	--	--	--	--	--
JUL										
10...	<.01	.20	.01	.08	<10	<5	<20	70	40	20
AUG										
07...	<.01	.31	.03	.01	--	--	--	--	--	--
SEP										
05...	.01	.41	.12	.02	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	<10	--	--	--	--	--	--	--	--
NOV										
14...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
24...	--	<10	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	<10	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07060500 WHITE RIVER AT CALICO ROCK, AR

LOCATION.--Lat 36°06'58", long 92°08'35", in SE¼NE¼ sec.22, T.17 N., R.11 W., Izard County, Hydrologic Unit 11010004, on left bank at Calico Rock, 200 ft (61 m) upstream from bridge on State Highway 5,700 ft (213 m) upstream from Calico Creek, 3.2 mi (5.1 km) downstream from Cataract Creek, 6.0 mi (9.7 km) upstream from Piney Creek, and at mile 359.1 (577.8 km).

DRAINAGE AREA.--9,978 mi² (25,840 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 316.38 ft (96.433 m) 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 (152 m) downstream, both at datum 2.07 ft (0.631 m) higher. Aug. 14, 1940, to Dec. 5, 1966, water-stage recorder at datum 1.00 ft (0.305 m) higher.

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

AVERAGE DISCHARGE.--39 years, 9,970 ft³/s (282 m³/s), 7,223,000 acre-ft/yr (8,910 hm³/yr).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1904, 52.9 ft (16.12 m) Jan. 31, 1916, present datum, from records of National Weather Service, discharge, 350,000 ft³/s (9,910 m³/s).

EXTREMES FOR CURRENT YEAR:--Maximum discharge, 52,100 ft³/s (1,480 m³/s) Mar. 25, gage height, 16.85 ft (5.136 m); minimum, 940 ft³/s (26.6 m³/s) Sept. 24; minimum daily, 1,300 ft³/s (36.8 m³/s) Aug. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8250	4430	4520	6140	6570	7320	17800	7220	10500	10800	4770	2760
2	4180	3630	4910	10300	6330	5940	17900	14900	12400	5240	5100	4390
3	3150	4530	4400	8980	5760	6520	20700	19600	10800	3310	4820	4080
4	4200	7500	4050	5170	8100	11700	20900	21500	8600	7570	4020	9480
5	3010	6260	5400	4880	5450	5140	22000	24500	9410	5570	1300	11000
6	2530	3800	9710	4520	4350	6370	22000	21900	11500	11000	1940	10200
7	2080	3740	11100	4140	7030	6600	22100	23400	12500	9610	5590	12800
8	2000	9730	11500	3980	9700	11600	23400	37400	13300	7770	4110	14500
9	1840	6280	6960	10400	6840	11000	23600	21900	11600	5870	5350	4290
10	1390	9580	11800	15500	5310	9790	26500	13000	11100	2370	4570	2330
11	1870	8100	7070	13700	5510	7950	27200	25500	9810	2920	5040	3150
12	4060	6100	8040	13190	2120	8360	31600	24400	6900	3570	3550	3000
13	7360	6120	7340	14000	3210	8410	31400	27100	10000	10300	3530	3430
14	5060	3150	12000	9820	8590	12500	30800	26200	9370	11500	4930	3890
15	2950	10800	12900	8810	9390	13300	30600	25700	9440	9370	9303	4150
16	1480	13200	11100	5830	7500	11500	30500	23300	9040	5230	5910	4500
17	2330	13700	8860	13400	7530	12500	30500	26200	8870	5900	5040	9740
18	7990	16000	8270	11490	5280	12700	30100	27400	4030	13100	6120	6880
19	10200	14000	7960	7950	3550	11100	24000	24600	3040	11900	10300	11000
20	10200	4950	9690	7260	3480	9040	25500	19700	8610	10600	3230	11000
21	8320	4510	11100	7150	6820	11400	21800	13200	7990	11400	1950	10900
22	5420	12500	10400	4630	7950	12000	14700	12700	9440	8300	7210	3920
23	2360	9830	9030	4200	7200	11700	12500	14300	12100	5970	6290	2690
24	2510	5640	7410	4990	8740	27500	6290	15200	9900	3740	7300	2010
25	4850	2520	7600	5340	11500	44900	12500	16700	7100	2690	12700	2610
26	9000	13600	8290	9330	8610	23700	11300	14400	7120	6770	10200	4070
27	4430	18800	7770	9590	6010	16600	11400	15200	11000	5090	5610	3970
28	6660	7080	5910	6190	6520	13700	10600	14800	11300	3440	3280	4750
29	2550	14000	7770	4820	---	12600	8330	13900	11300	4080	3660	3440
30	1680	13600	7010	4880	---	17400	5090	14000	11700	3050	1680	3840
31	1880	---	5210	4850	---	17600	---	13200	---	4920	1470	---
TOTAL	135790	257680	260780	246230	192400	404770	632110	619520	240570	220650	164760	178770
MEAN	4380	8589	8412	7943	6871	13060	21070	19980	9686	7118	5315	5959
MAX	10200	18800	12900	15900	11500	44900	31600	37400	13300	13100	12700	14500
MIN	1390	2520	4050	3980	2120	6370	5090	7220	3840	2370	1300	2010
AC-FT	269300	511100	517300	488400	381600	802900	1254000	1229000	476300	437700	326800	354600

CAL YR 1977 TOTAL 2039510 MEAN 5588 MAX 51200 MIN 1130 AC-FT 4045000
WTR YR 1978 TOTAL 3604030 MEAN 9874 MAX 44900 MIN 1300 AC-FT 7149000

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

WATER-QUALITY RECORDS

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

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

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.5°C July 6, 1971; minimum (Water years 1967-76), 1.5°C Feb. 8, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.0°C July 10, 25, Aug. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)
OCT										
13...	1028	1028	6710	274	8.1	--	10.4	--	--	8
NOV										
10...	1028	1028	15700	268	7.4	10.0	9.4	86	32	--
22...	1028	--	16400	--	--	11.5	--	--	--	--
DEC										
08...	1028	1028	13700	280	8.0	9.0	10.2	91	63	--
20...	1028	--	12200	--	--	9.0	--	--	--	--
JAN										
06...	1028	1028	4180	280	8.2	6.5	11.2	95	--	17
24...	1028	--	5760	--	--	5.0	--	--	--	--
MAR										
15...	1028	1028	13800	262	7.8	5.5	11.2	92	25	--
APR										
12...	1028	1028	31900	273	7.6	7.0	9.0	76	--	9
26...	1028	--	12800	--	--	9.5	--	--	--	--
MAY										
11...	1028	1028	25100	350	8.3	12.5	10.2	99	--	10
JUN										
06...	1028	--	14100	--	--	12.0	--	--	--	--
20...	1028	1028	12300	278	8.0	22.5	9.6	113	--	4
JUL										
20...	1028	1028	15600	287	--	15.5	9.3	98	18	--
26...	1028	--	2190	--	--	--	--	--	--	--
AUG										
17...	1028	1028	1970	327	7.0	12.5	8.4	82	--	20
30...	1028	--	1480	--	--	15.5	--	--	--	--
SEP										
15...	1028	1028	2240	340	7.6	15.5	8.2	84	--	5

07060500 WHITE RIVER AT CALICO ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	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)	SODIUM AD-SORP-TION RATIO (00931)
OCT										
13...	1.5	60	140	140	4	36	11	2.2	3	.1
NOV										
10...	1.1	80	150	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	1.5	64	K30	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	.8	K2	K34	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	1.2	K42	120	--	--	--	--	--	--	--
APR										
12...	1.6	K16	90	150	17	38	13	1.9	3	.1
26...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	.8	K130	130	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
20...	1.7	210	78	--	--	--	--	--	--	--
JUL										
20...	.6	110	110	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	4.8	44	100	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	2.4	47	140	--	--	--	--	--	--	--

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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										
13...	1.5	160	0	130	2.0	7.0	3.6	.1	3.7	150
NOV										
10...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
12...	1.6	160	0	130	6.4	6.9	3.4	.1	3.9	145
26...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--

07060500 WHITE RIVER AT CALICO ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA + ONGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)
OCT										
13...	144	.20	2720	.23	.09	.32	1.4	.04	1	0
NOV										
10...	--	--	--	.19	.32	.51	2.3	.02	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	.28	.13	.41	1.8	.01	--	--
20...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	--	--	--	.24	.12	.36	1.6	.01	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	.19	.16	.35	1.6	.04	--	--
APR										
12...	148	.20	12500	.18	.23	.41	1.8	.02	--	--
26...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	.25	.40	.65	2.9	.03	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	.01	.18	.19	.84	.01	--	--
JUL										
20...	--	--	--	.35	.33	.68	3.0	.01	--	--
26...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	.41	.51	.92	4.1	.01	--	--
30...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	.41	.32	.73	3.2	.02	--	--

DATE	ARSENIC DISSOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV, (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)
OCT									
13...	1	<10	<9	1	10	10	0	<50	<50
NOV									
10...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
DEC									
08...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
JAN									
06...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
MAR									
15...	--	--	--	--	--	--	--	--	--
APR									
12...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
MAY									
11...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
JUL									
20...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
AUG									
17...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
SEP									
15...	--	--	--	--	--	--	--	--	--

07060500 WHITE RIVER AT CALICO ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU) (01041)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT 13...	0	<10	<8	2	180	10	<100	<100	0	60
JAN 06...	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)
OCT 13...	50	10	.0	.0	.0	0	0	0	20	0
JAN 06...	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--

DATE	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, TOTAL (UG/L) (39516)	NAPH-THA-LENES, POLY-CHLOR, TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-AZINON, TOTAL (UG/L) (39570)
OCT 13...	20	3.3	.0	.00	.00	.0	.00	.00	.00	.00
JAN 06...	--	.6	--	--	--	--	--	--	--	--
APR 12...	--	3.1	--	--	--	--	--	--	--	--
JUL 20...	--	2.6	--	--	--	--	--	--	--	--

DATE	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL TRI-THION, TOTAL (UG/L) (39790)
OCT 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN 06...	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L) (39755)	PARA-THION, TOTAL (UG/L) (39540)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)
OCT 13...	.00	.00	0	.00	.00	.00	.00

07060500 WHITE RIVER AT CALICO ROCK, AR--CONTINUED

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

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

07060500 WHITE RIVER AT CALICO ROCK, AR--CONTINUED

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

PHYTOPLANKTON

DATE	OCT 13,77
TIME	1045
TOTAL CELLS/ML	920
DIVERSITY: DIVISION	1.6
.CLASS	1.7
..ORDER	1.9
...FAMILY	2.6
....GENUS	2.9

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....CHARACIUM	12	1
...OOCYSTACEAE		
....CHLORELLA	12	1
...SCENEDESMACEAE		
....CRUCIGENIA	74	8
....SCENEDESMUS	49	5
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	12	1
....MELOSIRA	37	4
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	210#	23
....COCCONEIS	6	1
...CYMBELLACEAE		
....AMPHORA	6	1
....CYMBELLA	25	3
...FRAGILARIACEAE		
....FRAGILARIA	12	1
....SYNEDRA	25	3
...NAVICULACEAE		
....NAVICULA	25	3
...NITZSCHIACEAE		
....NITZSCHIA	25	3
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....CHRYSOCOCCUS	6	1
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	25	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCCOCCALES		
...CHROCCOCCACEAE		
....ANACYSTIS	360#	39

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

07060660 WHITE RIVER AT SYLAMORE, AR

LOCATION.--Lat 35°57'00", long 92°06'40", in N½ sec.12, T.15 N., R.11 W., Izard County, Hydrologic Unit 11010004, temperature recorder on right bank, 0.9 mi (1.4 km) upstream from bridge at Sylamore, 0.8 mi (1.3 km) upstream from South Sylamore Creek, and 8.5 mi (13.7 km) downstream from Wideman Creek.

DRAINAGE AREA.--10,238 mi^2 (26,516 km^2).

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

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

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C July 6, 1971; minimum (water years 1967-76, 1978), 1.0°C Feb. 9, 1971, Feb. 19, 22, 1978.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.5°C July 25, Aug. 6; minimum, 1.0°C Feb. 19, 22.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	16.5	15.5	10.0	8.5			---	---	4.5	4.5
2	---	---	15.5	15.0	10.0	9.0			---	---	4.5	4.0
3	---	---	15.0	14.5	9.5	9.0			---	---	4.5	4.0
4	---	---	15.5	15.0	9.5	8.5			3.5	2.0	4.5	3.0
5	19.0	15.5	16.0	15.5	8.5	6.0			5.0	3.5	---	---
6	20.0	16.5	16.5	15.5	6.0	5.5			3.5	2.0	---	---
7	16.5	16.0	16.5	15.5	8.0	5.5			2.0	1.5	---	---
8	19.0	16.0	15.5	13.5	---	---			3.0	1.5	---	---
9	20.0	14.5	13.5	12.0	---	---			3.5	2.0	---	---
10	20.5	15.0	12.0	9.5	---	---			4.0	3.0	---	---
11	---	---	10.5	9.0	---	---			5.0	3.0	---	---
12	---	---	12.0	10.5	---	---			5.5	4.0	8.5	6.5
13	14.5	12.0	10.5	9.5	---	---			5.5	4.5	8.5	7.0
14	14.0	11.0	12.0	9.5	---	---			---	---	8.0	7.0
15	14.0	11.0	11.5	10.5	---	---			---	---	7.0	5.5
16	16.5	10.5	12.0	11.5	---	---			4.0	4.0	6.5	5.0
17	16.5	9.5	12.0	10.5	---	---			4.0	3.0	8.5	6.0
18	13.5	11.5	11.5	10.5	---	---			4.5	2.0	8.5	6.5
19	12.0	11.0	12.0	10.0	---	---			5.0	1.0	10.0	8.0
20	12.0	11.0	13.5	12.0	---	---			4.5	2.0	11.0	9.5
21	13.5	11.0	13.5	11.0	---	---			4.0	1.5	13.5	11.0
22	14.0	12.0	11.0	10.0	---	---			3.5	1.0	12.0	10.5
23	16.0	13.0	11.0	10.0	---	---			5.5	3.5	11.5	11.0
24	15.5	14.5	12.0	10.5	---	---			6.0	4.0	11.0	8.5
25	15.0	14.0	13.0	8.5	---	---			8.0	5.0	10.0	9.0
26	15.0	12.0	9.5	7.0	---	---			8.5	5.0	9.0	7.0
27	16.0	11.5	10.5	9.5	---	---			6.0	5.0	8.5	7.0
28	14.5	14.0	10.0	9.5	---	---			5.0	4.5	10.0	8.5
29	16.5	13.0	10.5	9.5	---	---			---	---	---	---
30	18.0	14.0	10.5	9.5	---	---			---	---	---	---
31	18.0	15.5	---	---	---	---			---	---	---	---
MONTH	20.5	9.5	16.5	7.0	10.0	5.5			8.5	1.0	13.5	3.0

07060660 WHITE RIVER AT SYLAMORE, AR--CONTINUED

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.5	9.0	13.0	11.5	16.0	13.0	15.0	14.5	22.0	16.5	24.0	19.0
2	10.5	8.5	13.0	11.0	15.0	13.0	19.5	15.0	21.0	17.0	22.0	19.0
3	9.5	8.0	11.5	9.0	15.5	13.5	25.5	18.5	21.5	18.5	22.0	19.0
4	10.0	8.5	9.5	8.5	17.0	14.0	21.5	17.0	19.5	15.5	19.5	15.5
5	9.5	8.5	10.5	9.0	16.0	13.0	20.0	16.5	24.0	15.5	16.0	14.5
6	10.0	9.0	11.0	9.5	14.0	13.0	19.5	14.5	26.5	18.5	16.0	14.5
7	9.0	8.5	13.0	10.5	16.0	14.0	16.5	14.5	21.0	18.0	15.0	14.0
8	9.0	8.0	15.0	13.0	17.0	14.5	18.0	15.0	22.0	16.5	14.5	13.5
9	9.0	8.0	15.5	14.0	16.5	15.0	24.0	16.0	23.0	19.0	20.0	14.0
10	9.0	7.0	17.0	15.0	18.0	14.5	25.5	20.5	21.5	16.5	21.5	17.0
11	9.0	6.5	16.0	10.5	17.0	14.5	---	---	20.5	17.0	20.5	18.5
12	8.5	7.0	11.0	10.5	20.0	15.5	---	---	21.0	16.5	22.0	18.5
13	8.0	7.0	11.5	9.5	19.5	15.5	---	---	20.5	18.5	20.5	18.5
14	7.0	6.5	13.5	11.0	17.0	15.0	---	---	21.5	18.5	21.0	18.5
15	7.0	6.5	13.5	11.0	16.5	14.5	16.5	14.0	20.0	16.0	21.5	19.0
16	7.0	6.5	12.0	10.0	17.0	14.5	21.0	16.0	20.0	16.5	23.0	19.0
17	7.0	6.5	10.5	10.0	18.0	14.5	20.5	18.5	23.5	16.5	20.0	16.0
18	7.0	7.0	10.5	9.5	19.5	15.5	20.0	14.5	20.5	17.0	19.0	15.5
19	8.0	6.5	10.5	9.5	24.5	19.0	16.0	13.0	19.0	14.5	18.5	15.0
20	9.5	7.0	11.5	10.0	20.0	15.0	17.0	13.5	20.5	14.0	16.5	14.5
21	9.5	9.0	13.5	11.5	17.0	15.0	16.5	13.0	26.0	16.5	15.0	14.0
22	10.0	9.0	13.0	11.0	---	---	18.0	13.5	20.5	17.0	16.5	13.5
23	12.0	9.5	14.0	11.5	---	---	19.5	16.0	18.5	15.5	17.0	15.0
24	13.0	10.0	14.5	13.0	---	---	21.0	18.0	18.5	14.0	20.5	15.5
25	13.0	9.5	15.0	12.0	---	---	26.5	18.5	15.5	13.5	20.5	16.0
26	10.5	9.0	14.5	13.0	20.0	17.0	22.0	19.0	18.0	14.5	19.0	16.5
27	11.0	9.5	14.5	12.0	18.5	15.5	21.0	16.0	23.5	17.0	20.0	16.5
28	11.5	10.0	14.5	11.0	15.5	14.5	24.0	19.5	19.0	16.0	---	---
29	12.0	10.5	14.0	11.5	16.0	14.0	20.0	18.0	20.5	16.0	---	---
30	13.5	11.0	13.0	11.5	15.0	14.0	18.5	15.0	20.5	16.0	19.5	16.0
31	---	---	14.0	12.0	---	---	20.5	16.0	25.5	17.0	---	---
MONTH	13.5	6.5	17.0	8.5	24.5	13.0	26.5	13.0	26.5	13.5	24.0	13.5

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

LOCATION.--Lat 35°59'30", long 92°12'50", in SW¼NW¼ sec.25, T.16 N., R.12 W., Stone County, Hydrologic Unit 11010004, on right bank 30 ft (9 m) upstream from bridge on Ozark National Forest service road, 200 ft (61 m) downstream from Gunner Creek, 2.7 mi (4.3 km) north of Fifty Six, and 7.0 mi (11.3 km) upstream from South Sylamore Creek.

DRAINAGE AREA.--58.1 mi² (150.5 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 434.99 ft (132.585 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for those periods of no gage-height record, Oct. 24 to Nov. 22, Dec. 22 to Jan. 5, Jan. 7 to Feb. 26, Feb. 28 to Mar. 14, Mar. 16 to Apr. 11, Apr. 13-26, Apr. 28 to May 10, and Aug. 28-29, which are poor.

AVERAGE DISCHARGE.--12 years, 48.7 ft³/s (1.38 m³/s), 11.38 in/yr (289 mm/yr), 35,280 acre-ft/yr (43.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft³/s (504 m³/s) Apr. 22, 1973, gage height, 17.61 ft (5.367 m), from floodmarks, from rating curve extended above 3,700 ft³/s (105 m³/s) on basis of step-backwater computations; minimum, 1.8 ft³/s (0.051 m³/s) Sept. 19, 20, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 900 ft³/s (25.5 m³/s) Nov. 1, no peak above base of 2,800 ft³/s (79 m³/s); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 26-30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	900	67	15	15	70	40	40	24	5.3	5.9	7.1
2	27	800	67	15	15	80	35	50	51	5.3	5.3	6.3
3	17	300	44	15	15	100	35	50	33	5.1	4.7	6.1
4	13	90	33	15	15	65	30	80	26	5.0	4.6	5.8
5	11	50	88	15	10	50	30	80	24	5.0	4.9	5.7
6	10	30	85	15	10	45	30	75	29	4.6	5.2	5.5
7	9.4	20	59	15	10	100	25	120	33	4.6	4.9	5.5
8	10	10	43	15	10	80	25	190	29	4.6	4.7	5.4
9	9.2	7.5	37	10	10	65	25	150	23	4.7	4.8	5.3
10	8.2	6.9	29	10	10	50	25	100	17	4.6	4.6	5.4
11	7.5	6.0	26	10	10	40	240	70	14	4.5	4.6	5.5
12	7.0	6.0	24	20	10	30	180	58	12	4.4	4.6	5.9
13	6.7	5.5	33	15	100	30	130	53	9.7	4.4	4.8	17
14	6.7	5.5	157	15	85	150	100	41	8.7	4.4	5.0	17
15	6.6	5.0	111	10	75	125	80	34	7.8	5.1	4.9	12
16	6.4	5.0	78	10	65	110	60	30	7.5	9.8	4.6	7.1
17	6.2	5.0	99	30	70	90	50	27	7.2	7.0	4.8	5.5
18	6.2	5.0	99	20	80	65	40	28	6.7	5.8	4.7	4.8
19	6.2	5.0	74	15	70	55	35	36	6.7	5.1	4.6	4.4
20	6.0	5.0	51	15	65	40	30	31	6.6	4.8	4.4	4.0
21	5.9	5.0	40	10	65	30	25	27	8.1	4.6	4.5	3.8
22	5.8	15	30	10	60	25	20	27	8.0	4.4	4.6	3.8
23	5.7	13	30	9.5	60	20	35	29	7.3	4.4	4.5	3.8
24	5.5	12	25	9.5	55	150	30	26	6.6	4.4	4.4	3.9
25	5.5	11	25	60	55	130	25	22	6.2	5.0	4.6	3.7
26	5.5	10	20	45	50	100	25	19	6.2	4.9	4.7	3.5
27	5.5	10	20	35	50	90	19	18	6.0	4.6	5.1	3.6
28	5.5	9.7	15	30	75	75	15	21	5.7	4.8	5.8	3.7
29	5.0	9.7	15	25	---	65	15	25	5.5	4.7	19	3.6
30	5.5	11	15	20	---	55	20	21	5.5	4.4	14	3.6
31	6.0	---	15	20	---	50	---	18	---	5.4	9.2	---
TOTAL	299.7	2373.8	1554	574.0	1220	2230	1474	1596	441.0	155.7	177.0	178.3
MEAN	9.67	79.1	50.1	18.5	43.6	71.9	49.1	51.5	14.7	5.02	5.71	5.94
MAX	58	900	157	60	100	150	240	190	51	9.8	19	17
MIN	5.0	5.0	15	9.5	10	20	15	18	5.5	4.4	4.4	3.5
CFSM	.17	1.36	.86	.32	.75	1.24	.85	.89	.25	.09	.10	.10
IN.	.19	1.52	.99	.37	.78	1.43	.94	1.02	.28	.10	.11	.11
AC-FT	594	4710	3080	1140	2420	4420	2920	3170	875	309	351	354

CAL YR 1977	TOTAL	13515.2	MEAN 37.0	MAX 2680	MIN 4.2	CFSM .64	IN 8.65	AC-FT 26810				
WTR YR 1978	TOTAL	12273.5	MEAN 33.6	MAX 900	MIN 3.5	CFSM .58	IN 7.86	AC-FT 24340				

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT											
19...	1028	1028	6.2	303	8.1	14.0	9.5	95	K5	K4	K34
NOV											
10...	1028	1028	--	--	--	--	--	--	--	--	--
10...	1028	1028	6.9	284	8.1	10.5	10.5	97	92	14	50
23...	1028	--	14	--	--	12.0	--	--	--	--	--
DEC											
08...	1028	1028	41	270	8.3	8.0	12.0	104	110	3	K22
21...	1028	--	37	--	--	5.0	--	--	--	--	--
JAN											
06...	1028	1028	15	280	8.2	6.5	11.8	99	--	--	--
FEB											
27...	1028	--	50	--	--	5.0	--	--	--	--	--
MAR											
15...	1028	1028	126	200	7.8	7.0	11.0	93	K20	K1	K18
APR											
12...	1028	1028	179	207	7.9	13.0	8.4	82	55	9	180
27...	1028	--	19	--	--	14.5	--	--	--	--	--
MAY											
11...	1028	1028	72	236	8.1	14.5	9.7	98	--	K75	K18
JUN											
06...	1028	--	28	--	--	21.0	--	--	--	--	--
20...	1028	1028	6.6	282	7.9	21.0	8.6	99	310	130	190
JUL											
20...	1028	1028	4.8	273	8.0	24.0	7.2	88	150	39	130
26...	1028	--	4.9	--	--	26.5	--	--	--	--	--
AUG											
17...	1028	1028	4.6	284	7.8	21.0	5.6	64	220	67	200
30...	1028	--	14	--	--	21.5	--	--	--	--	--
SEP											
15...	1028	1028	12	278	8.0	26.0	7.6	95	--	K200	410

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
OCT											
19...	160	9	50	7.7	1.2	2	.0	.8	180	0	150
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	150	1	48	7.1	1.6	2	.1	1.0	180	0	150
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	140	8	45	6.5	1.2	2	.0	.7	160	0	130
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	150	19	48	7.3	.8	1	.0	.7	160	0	130
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	100	14	35	4.2	.6	1	.0	.6	110	0	90
APR											
12...	110	13	38	4.0	.6	1	.0	.8	120	0	98
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	120	1	41	5.3	.9	2	.0	.9	150	0	120
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	150	15	51	6.6	1.2	2	.0	.7	--	--	140
JUL											
20...	150	10	48	7.3	1.6	2	.1	.9	170	0	140
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	150	7	47	7.1	1.5	2	.1	.9	170	0	140
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	140	8	45	6.2	2.9	4	.1	1.0	--	--	130

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
OCT											
19...	2.3	5.7	2.2	.1	7.0	154	163	.21	2.58	.07	.02
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	2.3	6.1	2.5	.1	7.8	156	163	.21	2.91	.06	.00
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	1.3	5.6	1.7	.0	7.0	148	147	.20	16.4	.07	.00
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	1.6	6.9	2.4	.2	6.1	148	151	.20	5.99	.10	.00
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	2.8	--	1.5	.0	6.2	112	--	.15	38.1	.05	.07
APR											
12...	2.4	7.0	1.5	.0	7.5	112	119	.15	54.1	.05	.00
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	1.9	7.8	1.7	.0	7.9	133	139	.18	25.9	.05	.01
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	--	6.7	1.6	.1	8.8	154	161	.21	2.74	.31	.00
JUL											
20...	2.7	6.7	2.1	.1	11	149	162	.20	1.93	.03	.02
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	4.3	3.3	2.2	.1	9.9	139	156	.19	1.73	.08	.02
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	--	7.7	4.7	.1	8.6	153	154	.21	4.96	.05	.00

DATE	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)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT											
19...	1	500	<10	10	<10	10	<100	4	.0	0	<10
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	--	--	--	--	--	--	--	--	--	--	--
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	1	100	1	0	3	60	3	0	.0	0	0
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CYANIDE TOTAL (MG/L AS CN) (00720)	PCB, TOTAL (UG/L) (39516)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE, TOTAL (UG/L) (39350)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39351)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39363)
OCT											
19...	30	.00	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	.0	0	.00	.00	.0	.0	0	.00	.0
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	--	--	--	--	--	--	--	--	--	--	--
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	.0	0	.00	.00	.0	.0	0	.00	.0
APR											
12...	20	.00	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39373)	DI-AZINON, TOTAL (UG/L) (39570)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39383)	ENDO-SULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39393)
OCT										
19...	--	--	--	--	--	--	--	--	--	--
NOV										
10...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.0
APR										
12...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ETHION, TOTAL (UG/L) (39398)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL TRITHION, TOTAL (UG/L) (39790)
OCT 19...	--	--	--	--	--	--	--	--	--	--
NOV 10...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00
DEC 08...	--	--	--	--	--	--	--	--	--	--
JAN 06...	--	--	--	--	--	--	--	--	--	--
MAR 15...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00
APR 12...	--	--	--	--	--	--	--	--	--	--
MAY 11...	--	--	--	--	--	--	--	--	--	--
JUN 20...	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L) (39755)	PARATHION, TOTAL (UG/L) (39540)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL THITHION (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 19...	--	--	--	--	--	--	--	--	20	.33
NOV 10...	.00	.00	0	0	.00	.00	.00	.00	13	.24
DEC 08...	--	--	--	--	--	--	--	--	37	4.1
JAN 06...	--	--	--	--	--	--	--	--	6	.24
MAR 15...	.00	.00	0	0	.00	.00	.00	.00	4	1.4
APR 12...	--	--	--	--	--	--	--	--	7	3.4
MAY 11...	--	--	--	--	--	--	--	--	3	.58
JUN 20...	--	--	--	--	--	--	--	--	13	.23
JUL 20...	--	--	--	--	--	--	--	--	0	.00
AUG 17...	--	--	--	--	--	--	--	--	5	.06
SEP 15...	--	--	--	--	--	--	--	--	3	.10

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	BIOMASS (MG/M^2) ASH WEIGHT	BIOMASS (MG/M^2) ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 10	22	--	--	--	1.93	.430	--	POLYETHYLENE STRIP

07061105 WHITE RIVER AT OIL TROUGH, AR

LOCATION.--Lat 35°38'36", long 91°27'42", in NW¼NE¼ sec.30, T.12 N., R.4 W., Independence County, Hydrologic Unit 11010004, at Oil Trough Ferry on State Highway 122, and 0.8 mi (1.3 km) north of Oil Trough.

DRAINAGE AREA.--11,234 mi^2 (29,096 km^2).

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

REMARKS.--Flow regulated by upstream reservoirs.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
17...	9827	9827	285	8.4	15.0	0	11.5	113	2.8	33	190	49
NOV												
08...	9827	9827	251	7.6	18.0	20	8.7	92	2.6	63	--	--
DEC												
12...	9827	9827	275	--	6.0	5	12.3	98	3.4	130	--	--
JAN												
30...	9827	9827	237	7.8	2.0	15	12.2	88	3.3	96	120	27
FEB												
13...	9827	9827	266	8.0	4.0	20	12.4	95	5.3	23	--	--
MAR												
13...	9827	9827	255	8.1	8.0	5	11.4	96	1.7	13	--	--
APR												
10...	9827	9827	282	8.2	12.0	5	11.3	105	3.5	24	140	34
MAY												
08...	9827	9827	--	8.0	16.0	20	9.9	99	2.7	1100	--	--
JUN												
28...	9827	9827	290	8.2	24.0	0	9.4	111	5.6	330	--	--
JUL												
10...	9827	9827	301	8.0	21.0	5	8.5	94	2.1	230	150	38
AUG												
07...	9827	9827	341	8.1	23.0	0	9.2	105	3.2	10	--	--
SEP												
05...	9827	9827	--	8.2	23.0	5	8.1	93	--	180	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
17...	15	2.7	1.4	150	3.0	5.5	165	31	.13	<.05	.13
NOV											
08...	--	--	--	--	6.0	5.5	--	14	.26	<.05	.27
DEC											
12...	--	--	--	--	7.0	6.0	159	15	.22	<.05	.23
JAN											
30...	12	2.2	1.6	120	5.0	5.0	135	8	.27	<.01	.27
FEB											
13...	--	--	--	--	4.0	7.0	152	--	.21	<.01	.21
MAR											
13...	--	--	--	--	7.0	5.0	137	11	.25	.01	.26
APR											
10...	12	4.4	2.1	140	4.0	6.0	150	19	.15	.05	.20
MAY											
08...	--	--	--	--	5.0	5.5	144	37	.24	.01	.25
JUN											
28...	--	--	--	--	9.0	6.0	160	10	.22	.01	.23
JUL											
10...	13	2.9	1.6	150	3.0	7.0	178	13	.33	.01	.34
AUG											
07...	--	--	--	--	<1.0	6.0	197	12	--	<.01	.44
SEP											
05...	--	--	--	--	--	6.0	173	21	.34	.01	.35

07061105 WHITE RIVER AT OIL TROUGH, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
17...	<.05	--	--	--	--	.03	<10	<5	<10	--	<10
NOV											
08...	.16	--	--	--	--	.07	--	--	--	--	--
DEC											
12...	.07	--	--	--	--	.03	--	--	--	--	--
JAN											
30...	.06	--	--	--	--	.04	<10	<5	20	440	<10
FEB											
13...	.08	--	--	--	--	.11	--	--	--	--	--
MAR											
13...	.05	--	--	--	--	.01	--	--	--	--	--
APR											
10...	--	--	--	--	--	.04	<10	6	210	300	<10
MAY											
08...	.07	--	--	--	--	.14	--	--	--	--	--
JUN											
28...	.03	--	--	--	--	.01	--	--	--	--	--
JUL											
10...	.04	--	--	--	--	.10	<10	<5	30	160	<10
AUG											
07...	.07	--	--	--	--	.02	--	--	--	--	--
SEP											
05...	.07	.00	.07	.42	1.9	--	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
17...	200	--	<10	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
12...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN											
30...	150	--	<10	--	--	--	--	--	--	--	--
FEB											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
10...	63	--	60	--	--	--	--	--	--	--	--
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	98	<1.0	<10	--	--	--	--	--	--	--	--
AUG											
07...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--

07064000 BLACK RIVER NEAR CORNING, AR

LOCATION.--Lat 36°24'07", long 90°32'29", in SW¼NE¼ sec.4, T.20 N., R.5 E., Clay County, Hydrologic Unit 11010007, near left bank on downstream side of bridge on U.S. Highway 62, 2.2 mi (3.5 km) east of Corning, 11.9 mi (19.1 km) downstream from Cane Creek, and at mile 152.2 (244.9 km).

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

WATER-DISCHARGE RECORDS

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

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

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

AVERAGE DISCHARGE.--40 years, 1,785 ft^3/s (50.6 m^3/s), 1,293,000 acre-ft/yr (1,590 hm^3/yr).

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,330 ft^3/s (236 m^3/s) Mar. 16; gage height, 12.16 ft (3.706 m); minimum, 388 ft^3/s (11.0 m^3/s) Aug. 26, gage height, 1.00 ft (0.305 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4420	798	1270	2870	870	1980	3820	914	782	499	615	1850
2	3960	928	1420	2860	840	1990	3910	864	719	464	620	1890
3	3360	1400	1560	2730	817	2060	3970	833	712	449	588	1690
4	2870	2020	1600	2450	804	2140	4040	823	705	451	573	1260
5	2420	2450	1720	2070	802	2150	4200	851	687	450	669	894
6	2020	2480	2310	1710	798	2060	4240	902	717	443	721	708
7	1770	2390	3160	1440	783	2110	4120	969	774	430	657	613
8	1640	2290	3740	1370	762	3070	3930	1030	803	422	572	535
9	1530	2200	3790	1410	744	5260	3650	1050	739	446	519	488
10	1410	2160	3640	1370	733	7270	3160	1000	639	443	489	464
11	1280	2170	3340	1270	725	6630	2910	942	559	554	472	455
12	1150	2200	3050	1140	725	5230	3360	910	527	964	466	447
13	1030	2240	2960	1040	799	4200	3560	901	557	1340	475	451
14	951	2270	3110	977	1110	4360	3240	905	607	1570	482	457
15	892	2270	4000	937	1500	7000	2820	918	612	1680	472	480
16	848	2260	5540	923	1700	8110	2390	918	547	1730	455	485
17	812	2230	6010	929	1810	7720	2040	909	489	1660	445	476
18	781	2190	5720	925	1850	6400	1810	898	454	1460	458	466
19	756	2120	5210	904	1810	5900	1680	882	437	1180	468	459
20	736	1980	4580	878	1710	5180	1570	861	447	947	466	457
21	684	1890	4080	869	1590	4760	1480	837	487	809	456	454
22	663	1850	3730	859	1480	4620	1400	838	512	749	448	451
23	685	1790	3310	839	1400	4770	1330	845	500	727	450	443
24	679	1680	2880	826	1350	4780	1240	829	581	716	446	439
25	664	1540	2440	851	1500	4780	1110	807	669	715	421	436
26	657	1400	2180	890	1840	4980	1000	793	641	711	393	436
27	656	1320	2170	914	2070	4930	960	780	596	732	400	432
28	655	1280	2300	925	2100	4540	953	777	581	769	415	429
29	649	1250	2500	922	---	4100	949	785	585	782	409	426
30	653	1220	2690	915	---	3870	938	818	549	709	629	427
31	708	---	2820	900	---	3780	---	833	---	628	1460	---
TOTAL	42009	56266	98830	39913	35013	141130	75780	27220	18214	25629	16609	19398
MEAN	1355	1876	3188	1288	1250	4553	2526	878	607	827	536	647
MAX	4420	2480	6010	2870	2100	8110	4240	1050	803	1730	1460	1890
MIN	649	798	1270	826	725	1980	938	777	437	422	393	426
AC-FT	83320	111600	196000	79170	69450	279900	150300	53990	36130	50840	32940	38480

CAL YR 1977 TOTAL 664214 MEAN 1820 MAX 25900 MIN 353 AC-FT 1317000
WTR YR 1978 TOTAL 596011 MEAN 1633 MAX 8110 MIN 393 AC-FT 1182000

07064000 BLACK RIVER NEAR CORNING, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: Water years 1947-60, 1966, October 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1956 to September 1959.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT										
03...	9827	9827	--	136	7.6	20.0	50	5.9	64	2.4
31...	9827	9827	--	285	8.0	17.0	5	8.4	87	1.1
NOV										
03...	1028	--	1600	--	--	16.5	--	--	--	--
28...	9827	9827	--	243	--	6.0	10	10.6	85	1.1
DEC										
12...	1028	--	2940	--	--	3.5	--	--	--	--
JAN										
03...	9827	9827	--	203	7.8	1.0	5	12.3	87	1.6
MAR										
07...	9827	9827	--	168	7.5	7.0	45	12.0	98	3.4
08...	1028	--	3550	--	--	4.5	--	--	--	--
21...	9827	9827	--	128	7.2	14.0	40	8.8	85	2.0
APR										
04...	9827	9827	--	--	7.7	19.0	15	9.9	105	2.5
18...	1028	--	1790	--	--	17.0	--	--	--	--
24...	9827	9827	--	225	--	19.0	15	9.1	97	1.8
MAY										
22...	9827	9827	--	261	8.0	21.0	5	6.3	70	.1
JUN										
01...	1028	--	779	--	--	26.0	--	--	--	--
19...	9827	9827	--	269	8.0	24.0	10	7.3	86	1.8
JUL										
13...	1028	--	1540	--	--	25.0	--	--	--	--
18...	9827	9827	--	168	--	27.0	100	6.2	77	2.7
AUG										
23...	1028	--	459	--	--	27.5	--	--	--	--
29...	9827	9827	--	282	8.2	27.0	5	7.1	88	1.5
SEP										
18...	9827	9827	--	281	8.1	26.0	5	7.5	91	1.4

DATE	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT										
03...	2800	300	58	11	7.0	1.8	2.9	54	4.0	4.5
31...	800	710	--	--	--	--	--	--	--	7.5
NOV										
03...	--	--	--	--	--	--	--	--	--	--
28...	200	80	--	--	--	--	--	--	4.0	5.0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	20	18	88	17	11	2.7	1.1	86	17	5.0
MAR										
07...	270	36	--	--	--	--	--	--	4.0	6.0
08...	--	--	--	--	--	--	--	--	--	--
21...	590	570	--	--	--	--	--	--	7.0	4.5
APR										
04...	170	60	68	12	8.6	2.2	1.3	73	12	4.5
18...	--	--	--	--	--	--	--	--	--	--
24...	150	50	100	18	12	3.4	1.3	110	7.0	6.0
MAY										
22...	550	80	--	--	--	--	--	--	--	6.5
JUN										
01...	--	--	--	--	--	--	--	--	--	--
19...	250	50	--	--	--	--	--	--	2.0	5.5
JUL										
13...	--	--	--	--	--	--	--	--	--	--
18...	700	130	93	19	10	2.5	2.4	74	10	--
AUG										
23...	--	--	--	--	--	--	--	--	--	--
29...	800	320	--	--	--	--	--	--	2.0	5.0
SEP										
18...	880	1800	--	--	--	--	--	--	7.0	6.0

07064000 BLACK RIVER NEAR CORNING, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)
OCT										
03...	100	16	.11	<.05	.11	.05	--	--	--	--
31...	--	--	.12	.00	.12	<.05	--	--	--	--
NOV										
03...	--	--	--	--	--	--	--	--	--	--
28...	151	20	.27	<.05	.28	.07	--	--	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	124	9	.32	<.05	.33	<.05	--	--	--	--
MAR										
07...	117	29	.27	.02	.29	.08	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
21...	118	37	.15	.01	.16	.12	--	--	--	--
APR										
04...	101	16	.03	.01	.04	.05	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
24...	116	50	.22	.01	.23	.06	--	--	--	--
MAY										
22...	143	57	.12	.01	.13	.07	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
19...	159	67	.28	.02	.30	.03	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
18...	125	84	.31	.08	.39	.21	--	--	--	--
AUG										
23...	--	--	--	--	--	--	--	--	--	--
29...	150	49	--	--	--	--	--	--	--	--
SEP										
18...	136	--	.12	.01	.13	.06	.34	.40	.53	2.3

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT										
03...	.15	<5	<10	<5	<10	--	<10	110	--	<10
31...	.15	--	<10	--	<10	1300	--	270	--	<10
NOV										
03...	--	--	--	--	--	--	--	--	--	--
28...	.08	--	<10	--	<20	990	--	150	--	20
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	.09	<5	<10	<5	<20	330	<10	65	--	<10
MAR										
07...	.17	--	<10	--	<20	2000	--	140	--	<10
08...	--	--	--	--	--	--	--	--	--	--
21...	.12	--	<10	--	<20	2500	--	350	--	10
APR										
04...	--	<5	<10	20	<20	1300	<10	65	--	30
18...	--	--	--	--	--	--	--	--	--	--
24...	.13	<5	<10	--	<20	1800	<10	380	--	10
MAY										
22...	--	--	<10	--	<20	1700	--	280	--	<10
JUN										
01...	--	--	--	--	--	--	--	--	--	--
19...	.12	--	--	--	<20	1500	--	260	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
18...	.20	7	<10	<5	<20	2400	<10	--	<1.0	<10
AUG										
23...	--	--	--	--	--	--	--	--	--	--
29...	.19	--	<10	--	<20	1200	--	200	--	<10
SEP										
18...	.17	--	<10	--	<20	70	--	160	--	<10

07068850 CURRENT RIVER NEAR POCAHONTAS, AR

LOCATION.--Lat 36°17'55", long 90°51'30", in SE¼SE¼ sec.10, T.19 N., R.2 E., Randolph County, Hydrologic Unit 11010008. at bridge on U.S. Highway 67, 5.5 mi (8.8 km) northeast of Pocahontas.

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	290	8.2	15.0	0	9.7	95	.8	20	180
NOV											
08...	9827	9827	241	7.7	17.0	10	7.8	80	2.5	63	--
DEC											
12...	9827	9827	222	--	5.0	15	11.8	92	3.4	190	--
JAN											
30...	9827	9827	262	8.0	2.0	5	14.7	107	4.1	7	140
FEB											
13...	9827	9827	316	8.2	6.0	5	12.4	99	2.8	23	--
MAR											
13...	9827	9827	209	7.8	10.0	20	10.8	96	1.6	10	--
APR											
10...	9827	9827	246	7.8	18.0	10	8.7	9	1.8	8	110
MAY											
08...	9827	9827	--	7.7	19.0	15	8.9	95	1.4	650	--
JUN											
28...	9827	9827	313	8.0	29.0	10	7.5	96	1.4	40	--
JUL											
10...	9827	9827	317	8.1	25.0	5	7.9	94	1.9	--	150
AUG											
07...	9827	9827	319	8.3	25.0	0	8.6	102	2.7	140	--
SEP											
05...	9827	9827	--	8.2	26.0	5	8.2	100	--	110	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	43	18	2.1	1.2	110	.0	4.5	168	13	.22
NOV										
08...	--	--	--	--	--	4.0	4.5	--	18	.20
DEC										
12...	--	--	--	--	--	6.0	4.5	135	13	.43
JAN										
30...	27	18	2.3	.8	140	4.0	4.5	163	2	.25
FEB										
13...	--	--	--	--	--	2.0	4.5	176	--	.18
MAR										
13...	--	--	--	--	--	<1.0	3.5	118	28	.36
APR										
10...	20	14	2.6	1.3	120	3.0	4.0	129	21	.36
MAY										
08...	--	--	--	--	--	3.0	4.0	155	63	.33
JUN										
28...	--	--	--	--	--	13	4.5	173	41	.21
JUL										
10...	29	18	2.4	1.2	170	<1.0	4.0	187	16	.17
AUG										
07...	--	--	--	--	--	1.0	5.0	192	20	--
SEP										
05...	--	--	--	--	--	--	4.5	154	13	.12

07068850 CURRENT RIVER NEAR POCAHONTAS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT 17...	<.05	.22	<.05	.05	<10	7	20	--	<10	78
NOV 08...	<.05	.21	.11	.10	--	--	--	--	--	--
DEC 12...	.05	.44	.06	.05	--	--	--	--	--	--
JAN 30...	<.01	.25	.04	.04	<10	<5	<20	360	<10	970
FEB 13...	<.01	.18	.06	.02	--	--	--	--	--	--
MAR 13...	.01	.37	.06	.05	--	--	--	--	--	--
APR 10...	.01	.37	.10	.05	<10	<5	110	540	<10	130
MAY 08...	.00	.33	.07	.09	--	--	--	--	--	--
JUN 28...	.01	.22	.12	.03	--	--	--	--	--	--
JUL 10...	<.01	.17	.04	.14	<10	<5	<20	370	10	140
AUG 07...	<.01	.17	.78	.07	--	--	--	--	--	--
SEP 05...	.01	.13	.13	.11	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT 17...	--	90	--	--	--	--	--	--	--	--
NOV 08...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC 12...	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	<10	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--
APR 10...	--	40	--	--	--	--	--	--	--	--
MAY 08...	--	--	--	--	--	--	--	--	--	--
JUN 28...	--	--	--	--	--	--	--	--	--	--
JUL 10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--

07069000 BLACK RIVER AT POCAHONTAS, AR

LOCATION.--Lat 36°15'14", long 90°58'12", in SW¼SW¼ sec.27, T.19 N., R.1 E., Randolph County, Hydrologic Unit 11010009, at gaging station near bank on downstream side of pier of bridge on U.S. Highway 67 at Pocahontas, 1.6 mi (2.6 km) downstream from Fourche Creek, 6.1 mi (9.8 km) downstream from Current River, 18.1 mi (29.1 km) upstream from Spring River, and at mile 90.1 (145.0 km).

DRAINAGE AREA.--4,845 mi² (12,548 km²).

PERIOD OF RECORD.--October 1965 to September 1966, October 1977 to September 1978.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	271	8.0	14.0	5	9.1	88	2.6	130	170
NOV											
08...	9827	9827	232	7.7	18.0	25	7.1	75	2.7	40	--
DEC											
12...	9827	9827	209	--	4.0	50	11.4	87	2.8	210	--
JAN											
30...	9827	9827	286	7.8	1.0	5	13.2	93	2.3	10	70
FEB											
13...	9827	9827	301	8.0	4.0	20	12.2	93	4.9	650	--
MAR											
13...	9827	9827	193	7.7	9.0	50	10.3	89	2.6	230	--
APR											
10...	9827	9827	210	7.5	20.0	20	6.7	73	2.9	40	92
MAY											
08...	9827	9827	--	7.9	19.0	30	8.3	88	2.3	1000	--
JUN											
28...	9827	9827	301	8.0	29.0	5	8.5	109	2.9	250	--
JUL											
10...	9827	9827	311	8.1	20.0	10	8.1	88	2.1	73	140
AUG											
07...	9827	9827	315	8.2	25.0	0	8.8	105	3.8	120	--
SEP											
05...	9827	9827	--	7.9	25.0	30	7.3	87	--	140	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	38	19	2.2	1.5	130	2.0	5.5	155	43	.22
NOV										
08...	--	--	--	--	--	6.0	4.5	--	29	.17
DEC										
12...	--	--	--	--	--	8.0	5.0	136	50	.32
JAN										
30...	26	18	2.9	.9	150	5.0	5.0	153	7	.24
FEB										
13...	--	--	--	--	--	3.0	6.0	171	--	.29
MAR										
13...	--	--	--	--	--	8.0	4.5	123	26	.30
APR										
10...	17	12	2.3	1.4	100	5.0	4.5	114	19	.17
MAY										
08...	--	--	--	--	--	4.0	5.5	153	55	.31
JUN										
28...	--	--	--	--	--	20	5.5	171	37	.25
JUL										
10...	27	18	3.0	1.4	170	1.0	5.5	184	40	.17
AUG										
07...	--	--	--	--	--	1.0	5.0	188	32	--
SEP										
05...	--	--	--	--	--	--	5.0	141	44	.15

07069000 BLACK RIVER AT POCAHONTAS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.23	<.05	.06	<10	<5	<10	--	<10	140
NOV										
08...	<.05	.18	.14	.11	--	--	--	--	--	--
DEC										
12...	<.05	.33	.08	.10	--	--	--	--	--	--
JAN										
30...	<.01	.24	.05	.02	<10	<5	<10	490	<10	190
FEB										
13...	.01	.30	.11	.10	--	--	--	--	--	--
MAR										
13...	.01	.31	.08	.06	--	--	--	--	--	--
APR										
10...	.01	.16	.06	.06	<10	<5	<10	600	10	120
MAY										
08...	.01	.32	.07	.12	--	--	--	--	--	--
JUN										
28...	.01	.26	.07	.01	--	--	--	--	--	--
JUL										
10...	.01	.18	.06	.12	<10	<5	<10	190	10	130
AUG										
07...	<.01	.21	.07	.05	--	--	--	--	--	--
SEP										
05...	.02	.17	.01	.09	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION TOTAL (UG/L) (39600)	METHOXYCHLOR TOTAL (UG/L) (39480)
OCT										
17...	--	10	--	--	--	--	--	--	--	--
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	.00	.00	.00	.00	.00	.00	.00	.0
JAN										
30...	--	10	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	30	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07069266 SPRING RIVER NEAR HARDY, AR

LOCATION.--Lat 36°20'00", long 91°30'30", in SW¼SW¼ sec.34, T.20 N., R.5 W., Fulton County, Hydrologic Unit 11010010, at low-water bridge on county road, 1.8 mi (2.9 km) upstream from South Fork Spring River, and 2.2 mi (3.5 km) northwest of Hardy.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	416	8.5	13.0	0	10.2	96	.8	13	200
NOV											
08...	9827	9827	454	8.2	17.0	0	10.1	104	2.3	55	--
DEC											
12...	9827	9827	439	--	8.0	0	11.8	99	1.3	84	--
JAN											
30...	9827	9827	428	8.3	.0	5	13.2	90	1.6	7	120
FEB											
13...	9827	9827	437	8.2	6.0	5	11.3	90	2.4	55	--
MAR											
13...	9827	9827	418	8.1	11.0	5	10.4	94	1.8	20	--
APR											
10...	9827	9827	408	8.2	18.0	5	9.1	96	1.9	160	210
MAY											
08...	9827	9827	--	8.2	19.0	20	9.4	100	3.4	300	--
JUN											
28...	9827	9827	408	8.2	24.0	5	9.0	106	1.3	40	--
JUL											
10...	9827	9827	409	8.3	21.0	5	9.2	102	1.8	340	230
AUG											
07...	9827	9827	427	8.4	21.0	0	9.4	104	1.0	13	--
SEP											
05...	9827	9827	--	8.3	23.0	5	8.6	99	--	96	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	65	28	1.6	1.6	230	<1.0	5.0	239	9	.85
NOV										
08...	--	--	--	--	--	3.0	4.5	--	7	.59
DEC										
12...	--	--	--	--	--	4.0	4.5	246	6	.82
JAN										
30...	49	24	1.5	1.0	250	2.0	4.0	243	7	.55
FEB										
13...	--	--	--	--	--	1.0	4.5	236	--	.49
MAR										
13...	--	--	--	--	--	.0	4.5	225	13	.81
APR										
10...	44	24	1.9	1.5	220	2.0	5.0	220	13	.75
MAY										
08...	--	--	--	--	--	2.0	5.0	222	23	.56
JUN										
28...	--	--	--	--	--	22	4.5	231	11	.57
JUL										
10...	43	30	1.3	1.5	240	<1.0	4.0	237	12	.59
AUG										
07...	--	--	--	--	--	<1.0	4.0	251	12	--
SEP										
05...	--	--	--	--	--	--	4.0	248	9	.50

07069266 SPRING RIVER NEAR HARDY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT 17...	<.05	.85	<.05	.07	<10	6	<10	--	<10	<8
NOV 08...	<.05	.60	.09	.05	--	--	--	--	--	--
DEC 12...	<.05	.83	<.05	.02	--	--	--	--	--	--
JAN 30...	<.01	.55	.03	.01	<10	<5	<20	110	<10	22
FEB 13...	<.01	.49	.09	.01	--	--	--	--	--	--
MAR 13...	<.01	.81	.04	.01	--	--	--	--	--	--
APR 10...	.01	.76	.08	.04	<10	<5	<20	290	<10	48
MAY 08...	.01	.57	.04	.09	--	--	--	--	--	--
JUN 28...	.01	.58	.07	.02	--	--	--	--	--	--
JUL 10...	<.01	.59	.05	.10	<10	<5	20	320	<10	18
AUG 07...	<.01	.55	.05	.01	--	--	--	--	--	--
SEP 05...	.01	.51	.06	.03	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT 17...	--	<10	--	--	--	--	--	--	--	--
NOV 08...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC 12...	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	<10	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--
APR 10...	--	<10	--	--	--	--	--	--	--	--
MAY 08...	--	--	--	--	--	--	--	--	--	--
JUN 28...	--	--	--	--	--	--	--	--	--	--
JUL 10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--

07069295 SOUTH FORK SPRING RIVER AT SADDLE, AR

LOCATION.--Lat 36°21'00", long 91°38'00", in NW¼NW¼ sec.33, T.20 N., R.6 W., Fulton County, Hydrologic Unit 11010010, at bridge on State Highway 289, 0.2 mi (0.3 km) southeast of Saddle.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	393	8.4	12.0	0	10.3	95	1.9	<5	260
NOV											
08...	9827	9827	347	8.1	18.0	0	9.2	97	.8	4	--
DEC											
12...	9827	9827	329	--	5.0	5	12.5	98	1.4	73	--
JAN											
30...	9827	9827	367	8.2	1.0	0	14.5	102	2.4	<5	190
FEB											
13...	9827	9827	386	8.3	4.0	5	12.5	95	2.3	48	--
MAR											
14...	9827	9827	293	8.0	8.0	40	--	--	--	520	--
APR											
10...	9827	9827	356	8.2	19.0	5	8.2	87	1.2	200	180
MAY											
08...	9827	9827	--	8.0	21.0	80	7.8	87	2.4	2000	--
JUN											
28...	9827	9827	379	8.3	31.0	5	7.7	103	1.4	86	--
JUL											
10...	9827	9827	396	8.3	28.0	5	10.0	127	2.8	57	220
AUG											
07...	9827	9827	373	8.5	26.0	0	10.0	122	1.1	27	--
SEP											
05...	9827	9827	--	8.3	25.0	10	10.5	129	--	13	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	60	26	2.1	1.7	210	<1.0	5.0	231	9	.18
NOV										
08...	--	--	--	--	--	5.0	5.0	--	11	.53
DEC										
12...	--	--	--	--	--	6.0	5.0	186	7	.64
JAN										
30...	39	22	3.0	1.2	210	3.0	5.5	205	7	.48
FEB										
13...	--	--	--	--	--	1.0	5.5	217	--	.41
MAR										
14...	--	--	--	--	--	5.0	4.5	163	39	.57
APR										
10...	37	21	3.1	1.4	190	1.0	4.5	191	13	.33
MAY										
08...	--	--	--	--	--	5.0	4.5	154	50	.22
JUN										
28...	--	--	--	--	--	21	5.5	208	21	.08
JUL										
10...	38	30	1.7	1.6	240	<1.0	4.5	239	8	.09
AUG										
07...	--	--	--	--	--	<1.0	5.0	220	23	--
SEP										
05...	--	--	--	--	--	--	5.0	196	14	.09

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSP PHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.19	<.05	.04	<10	<5	50	--	20	190
NOV										
08...	<.05	.54	.10	.05	--	--	--	--	--	--
DEC										
12...	<.05	.65	.07	.01	--	--	--	--	--	--
JAN										
30...	<.01	.48	.04	.01	<10	<5	100	190	70	350
FEB										
13...	.01	.42	.05	.02	--	--	--	--	--	--
MAR										
14...	.01	.58	.06	.04	--	--	--	--	--	--
APR										
10...	.01	.34	.05	.03	<10	<5	70	300	10	180
MAY										
08...	.01	.23	.04	.14	--	--	--	--	--	--
JUN										
24...	.01	.09	.05	.02	--	--	--	--	--	--
JUL										
10...	.01	.10	.07	.10	<10	<5	20	210	<10	62
AUG										
07...	<.01	.12	.06	.04	--	--	--	--	--	--
SEP										
05...	.01	.10	.08	.04	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39500)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	50	--	--	--	--	--	--	--	--
NOV										
08...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	100	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	70	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07069370 SPRING RIVER AT RAVENDEN, AR

LOCATION.--Lat 36°13'30", long 91°15'03", in SE¼NW¼ sec.12, T.18 N., R.3 W., Lawrence County, Hydrologic Unit 11010010, at bridge on county road, 400 ft (122 m) upstream from Starling Creek, and 0.5 mi (0.8 km) south of Ravenden.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	416	8.5	13.0	0	10.7	101	3.4	8	280
NOV											
08...	9827	9827	418	8.0	18.0	0	8.9	94	1.5	92	--
DEC											
12...	9827	9827	409	--	6.0	0	12.3	98	5.1	110	--
JAN											
30...	9827	9827	410	8.3	3.0	0	13.7	101	2.5	20	220
FEB											
13...	9827	9827	428	8.3	6.0	5	11.9	95	2.2	110	--
MAR											
13...	9827	9827	387	8.1	10.0	0	10.7	95	1.4	40	--
APR											
10...	9827	9827	408	8.2	19.0	5	8.7	93	2.1	33	220
MAY											
08...	9827	9827	--	8.3	19.0	20	8.9	95	2.1	230	--
JUN											
28...	9827	9827	408	8.3	29.0	5	8.6	110	1.2	20	--
JUL											
10...	9827	9827	389	8.3	26.0	10	7.4	90	1.6	--	220
AUG											
07...	9827	9827	427	8.4	25.0	0	8.9	106	4.1	35	--
SEP											
05...	9827	9827	--	8.4	26.0	5	9.0	110	--	23	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	66	28	2.1	1.4	230	<1.0	6.0	238	4	.45
NOV										
08...	--	--	--	--	--	2.0	4.5	--	13	.45
DEC										
12...	--	--	--	--	--	5.0	4.5	233	5	.58
JAN										
30...	49	24	1.5	.9	240	2.0	4.5	234	5	.39
FEB										
13...	--	--	--	--	--	1.0	4.5	239	--	.39
MAR										
13...	--	--	--	--	--	1.0	4.5	208	17	.59
APR										
10...	45	25	1.9	1.4	220	3.0	5.0	220	21	.51
MAY										
08...	--	--	--	--	--	2.0	6.0	223	37	.41
JUN										
28...	--	--	--	--	--	1.0	5.0	229	12	.39
JUL										
10...	40	30	1.4	1.6	230	<1.0	4.0	237	27	.39
AUG										
07...	--	--	--	--	--	1.0	4.0	248	13	--
SEP										
05...	--	--	--	--	--	--	4.0	239	14	.26

WHITE RIVER BASIN

07069370 SPRING RIVER AT RAVENDEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.45	<.05	.01	<10	<5	20	--	<10	<8
NOV										
08...	<.05	.46	.08	.05	<10	--	<10	350	--	33
DEC										
12...	<.05	.59	<.05	.01	--	--	--	--	--	--
JAN										
30...	<.01	.39	.02	.01	<10	<5	20	100	10	41
FEB										
13...	<.01	.39	.08	.02	--	--	--	--	--	--
MAR										
13...	.01	.60	.04	.01	--	--	--	--	--	--
APR										
10...	.01	.52	.08	.09	<10	5	80	380	<10	61
MAY										
08...	.00	.41	.04	.09	--	--	--	--	--	--
JUN										
28...	.01	.40	.04	.02	--	--	--	--	--	--
JUL										
10...	<.01	.39	.04	.11	<10	<5	20	500	<10	57
AUG										
07...	<.01	.35	.07	.02	--	--	--	--	--	--
SEP										
05...	.01	.27	.06	.03	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	<10	--	--	--	--	--	--	--	--
NOV										
08...	--	10	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	10	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	40	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07069500 SPRING RIVER AT IMBODEN, AR

LOCATION.--Lat 36°12'19", long 91°10'19", in SE¼NE¼ sec.15, T.18 N., R.2 W., Randolph County, Hydrologic Unit 11010010, near left bank on downstream side of bridge on U.S. Highway 62 at Imboden, 1.8 mi (2.9 km) upstream from Harding Creek, 3.9 mi (6.3 km) downstream from Janes Creek, 8.2 mi (13.2 km) upstream from Eleven Point River, and at mile 12.1 (19.5 km).

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

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

REVISED RECORDS.--WSP 1147: 1937-39, 1942-43, 1945. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 254.07 ft (77.441 m) National Geodetic Vertical Datum of 1929. Prior to July 17, 1937, nonrecording gage at site 200 ft (61 m) downstream at present datum. July 17, 1937, to Feb. 8, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--42 years, 1,365 ft³/s (38.7 m³/s), 15.67 in/yr (398 mm/yr), 988,900 acre-ft/yr (1,220 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82,700 ft³/s (2,340 m³/s) Mar. 28, 1977, gage height, 28.78 ft (8.772 m), minimum daily, 215 ft³/s (6.09 m³/s) Aug. 1, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915 reached a stage of about 32.1 ft (9.78 m), from information by Corps of Engineers, discharge, about 125,000 ft³/s (3,540 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,270 ft³/s (234 m³/s), Aug. 30, gage height, 13.48 ft (4.109 m) no peak above base of 9,000 ft³/s (260 m³/s); minimum, 388 ft³/s (11.0 m³/s) Sept. 29, gage height, 2.65 ft (0.808 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	592	1230	1010	981	1470	2010	1410	998	606	545	905
2	1640	2330	1800	956	954	2200	1910	1360	1050	593	516	727
3	1350	4420	1400	928	920	3470	1830	1340	1030	584	517	643
4	1180	3370	1270	905	889	2860	1930	1400	1020	571	645	593
5	1060	2100	2790	889	885	2260	1890	1360	973	561	575	556
6	981	1680	3080	874	858	2010	1780	1290	1000	552	563	529
7	920	1470	2100	885	839	3480	1660	3130	1080	547	547	509
8	958	1320	1760	968	812	4930	1580	3480	2780	551	522	503
9	896	1220	1730	886	811	3670	1530	2550	1430	889	506	484
10	844	1110	1660	846	786	2930	2510	1960	1170	839	494	474
11	793	1040	1490	840	790	2520	5060	1720	1060	1520	484	468
12	744	978	1390	853	778	2240	2810	1610	1000	1050	524	468
13	710	924	1370	831	1260	2400	2280	1610	949	934	509	477
14	688	885	2190	811	1600	3910	2000	1440	895	1790	495	535
15	668	852	2690	787	1500	3690	1840	1340	853	1340	483	565
16	643	896	2120	892	1420	3390	1730	1280	824	1630	472	592
17	627	898	2180	1050	1330	3520	1650	1230	799	1130	460	564
18	615	863	2330	968	1280	3140	1620	1210	777	892	451	523
19	599	842	1940	931	1220	2720	1530	3030	759	780	443	498
20	569	826	1750	902	1180	2460	1460	3100	743	714	436	481
21	576	840	1590	866	1180	3160	1400	1840	733	669	429	468
22	565	800	1470	841	1100	3400	1350	1560	722	634	425	456
23	557	788	1390	802	1100	2820	1350	1440	727	610	423	448
24	554	771	1330	1040	1200	3510	1300	1370	757	593	421	441
25	554	748	1260	1420	1350	6210	1250	1290	714	590	418	437
26	542	717	1190	1410	1470	4090	1210	1200	685	575	510	437
27	535	714	1140	1290	1450	3160	1170	1150	664	564	445	434
28	531	700	1090	1190	1470	2770	1140	1120	645	549	627	431
29	531	686	1060	1110	---	2500	1120	1120	631	533	909	427
30	520	708	1060	1060	---	2290	1110	1080	618	522	5280	424
31	524	---	1030	1020	---	2130	---	1030	---	568	1370	---
TOTAL	24714	36088	51620	30061	31413	96010	53010	51050	28086	24480	21444	15497
MEAN	797	1203	1665	970	1122	3097	1767	1647	936	790	692	517
MAX	2240	4420	3080	1420	1600	6210	5060	3480	2780	1790	5280	905
MIN	520	592	1030	787	778	1470	1110	1030	618	522	418	424
CFSM	.67	1.02	1.41	.82	.95	2.62	1.49	1.39	.79	.67	.59	.44
IN.	.78	1.13	1.62	.95	.99	3.02	1.67	1.61	.88	.77	.67	.49
AC-FT	49020	71580	102400	59630	62310	190400	105100	101300	55710	48560	42530	30740

CAL YR 1977 TOTAL 444761 MEAN 1219 MAX 60200 MIN 351 CFSM 1.03 IN 13.99 AC-FT 882200
WTR YR 1978 TOTAL 463473 MEAN 1270 MAX 6210 MIN 418 CFSM 1.07 IN 14.57 AC-FT 919300

07072000 ELEVEN POINT RIVER NEAR RAVENDEN SPRINGS, AR

LOCATION.--Lat 36°20'48", long 91°06'48", in SE¼SE¼ sec.30, T.20 N., R.1 W., Randolph County, Hydrologic Unit 11010010, on left bank at downstream side of bridge on State Highway 90, 0.9 mi (1.4 km) downstream from Hincha Creek, 1.9 mi (3.1 km) upstream from Fassis Creek, 6.6 mi (10.6 km) northeast of Ravenden Springs, and at mile 21.2 (34.1 km).

DRAINAGE AREA.--1,134 mi² (2,937 km²).

PERIOD OF RECORD.--October 1929 to September 1933, October 1935 to current year. Prior to October 1949, published as "near Elevenpoint." Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1930-33, 1936-38. WSP 977: 1933, 1937-39, 1942. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 291.98 ft (88.996 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 21, 1938, nonrecording gage at present site at datum 0.04 ft (0.012 m) higher. Nov. 21 to Dec. 11, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--47 years, 1,120 ft³/s (31.7 m³/s), 13.41 in/yr (341 mm/yr), 811,400 acre-ft/yr (1,000 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,600 ft³/s (1,060 m³/s) Nov. 17, 1958, gage height, 20.83 ft (6.349 m), from rating curve extended above 23,000 ft³/s (651 m³/s); minimum observed, 226 ft³/s (6.40 m³/s) Sept. 9, 1936, gage height, 2.13 ft (0.649 m), present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,520 ft³/s (156 m³/s) Mar. 26, gage height, 10.20 ft (3.109 m) no peak above base of 6,000 ft³/s (170 m³/s); minimum, 478 ft³/s (13.5 m³/s) Sept. 29, 30, gage height, 2.92 ft (0.890 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	941	568	749	910	689	981	1900	1100	963	682	601	710
2	880	958	899	882	681	1290	1830	1040	944	681	595	646
3	822	1390	921	861	672	1570	1750	1070	917	680	594	615
4	777	1330	895	845	662	1310	1430	1090	902	671	632	595
5	747	1160	1610	835	654	1220	1730	1080	893	664	616	581
6	723	1050	1890	826	644	1180	1640	1060	891	655	595	566
7	706	985	1710	820	634	1860	1570	1420	894	651	585	555
8	738	932	1480	827	632	2460	1510	1510	1170	675	578	547
9	704	895	1440	786	624	2430	1460	1470	975	743	574	540
10	684	850	1340	768	624	2040	2090	1380	912	779	571	535
11	665	818	1250	754	621	1900	2400	1300	882	1050	564	532
12	646	791	1210	755	621	1770	1820	1270	859	820	589	529
13	631	759	1220	744	646	1870	1670	1230	834	767	578	537
14	621	734	1470	732	924	2440	1560	1180	814	1040	542	560
15	610	721	1620	720	915	2460	1490	1140	801	832	579	550
16	600	736	1600	755	881	2420	1430	1110	789	779	568	533
17	591	725	1610	755	851	2260	1400	1080	777	727	560	525
18	583	708	1550	723	832	2120	1340	1060	770	696	552	517
19	577	694	1440	712	809	2010	1350	1320	763	674	542	510
20	568	686	1400	703	797	1910	1300	1290	761	660	535	507
21	563	667	1310	692	812	2170	1260	1190	754	650	532	502
22	559	666	1250	685	775	2040	1220	1110	745	639	526	503
23	551	660	1200	678	766	1980	1210	1090	743	632	523	498
24	551	656	1160	722	796	2160	1140	1060	743	625	521	494
25	555	646	1110	782	848	3440	1150	1040	734	762	521	494
26	547	634	1070	782	898	4560	1120	991	722	806	536	490
27	542	632	1030	759	934	2970	1090	970	714	673	561	489
28	537	623	994	737	973	2540	1070	957	705	634	538	486
29	534	616	970	718	---	2300	1050	959	698	617	779	483
30	529	627	959	707	---	2110	1050	945	689	609	1690	484
31	528	---	934	698	---	1990	---	916	---	638	848	---
TOTAL	19810	23937	39341	23673	21423	65641	44620	35478	24702	22251	19175	16113
MEAN	639	798	1269	764	765	2117	1487	1144	823	718	619	537
MAX	941	1390	1890	910	973	4560	2400	1510	1170	1050	1690	710
MIN	528	568	749	678	621	981	1050	916	689	609	521	483
CFSM	.56	.70	1.12	.67	.68	1.87	1.31	1.01	.73	.63	.55	.47
IN.	.65	.79	1.29	.78	.70	2.15	1.46	1.16	.81	.73	.63	.53
AC-FT	39290	47480	78030	46960	42490	130200	88500	70370	49000	44130	38030	31960

CAL YR 1977 TOTAL 334780 MEAN 917 MAX 27800 MIN 390 CFSM .81 IN 10.98 AC-FT 664000
WTR YR 1978 TOTAL 356164 MEAN 976 MAX 4560 MIN 483 CFSM .86 IN 11.68 AC-FT 706500

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, AR

LOCATION.--Lat 36°14'13", long 91°05'05", in NW¼SE¼ sec.33, T.19 N., R.1 W., Randolph County, Hydrologic Unit 11010011, at bridge on U.S. Highway 62, 6.0 mi (10.0 km) west of Pocahontas.

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	373	8.4	12.0	0	10.2	94	.5	32	250
NOV											
08...	9827	9827	372	8.2	17.0	0	8.9	92	.7	52	--
DEC											
12...	9827	9827	346	--	7.0	0	11.5	94	2.3	43	--
JAN											
30...	9827	9827	369	8.2	3.0	0	13.0	96	2.0	<5	200
FEB											
13...	9827	9827	374	8.1	6.0	10	11.3	90	--	310	--
MAR											
13...	9827	9827	322	8.0	10.0	15	10.3	91	1.4	43	--
APR											
10...	9827	9827	311	8.0	18.0	5	8.6	91	1.5	80	150
MAY											
08...	9827	9827	--	8.0	19.0	20	10.6	113	4.3	--	--
JUN											
28...	9827	9827	359	8.2	21.0	10	8.4	93	3.3	20	--
JUL											
10...	9827	9827	294	8.0	22.0	40	7.0	80	3.3	--	130
AUG											
07...	9827	9827	373	8.3	22.0	0	8.8	100	2.9	56	--
SEP											
05...	9827	9827	--	8.3	24.0	5	8.3	98	--	80	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	57	24	1.5	1.1	180	.0	4.0	218	6	.59
NOV										
08...	--	--	--	--	--	1.0	3.5	--	20	.40
DEC										
12...	--	--	--	--	--	5.0	4.5	197	9	.61
JAN										
30...	41	22	2.1	1.1	220	2.0	4.0	211	15	.48
FEB										
13...	--	--	--	--	--	1.0	3.5	206	--	.44
MAR										
13...	--	--	--	--	--	1.0	4.5	174	37	.54
APR										
10...	30	18	2.1	1.3	160	3.0	4.0	163	19	.57
MAY										
08...	--	--	--	--	--	3.0	5.0	188	18	.39
JUN										
28...	--	--	--	--	--	5.0	4.5	199	17	.44
JUL										
10...	24	17	1.1	2.8	160	<1.0	3.5	183	25	.51
AUG										
07...	--	--	--	--	--	<1.0	4.5	218	20	--
SEP										
05...	--	--	--	--	--	--	3.5	201	19	.36

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.59	<.05	.02	<10	10	30	--	<10	47
NOV										
08...	<.05	.41	.08	.05	--	--	--	--	--	--
DEC										
12...	<.05	.62	.06	.02	--	--	--	--	--	--
JAN										
30...	<.01	.48	.03	.02	<10	<5	40	290	110	370
FEB										
13...	<.01	.44	.15	.03	--	--	--	--	--	--
MAR										
13...	.01	.55	.07	.03	--	--	--	--	--	--
APR										
10...	.01	.58	.04	.03	<10	<5	50	320	<10	88
MAY										
08...	.01	.40	.05	.07	--	--	--	--	--	--
JUN										
28...	.01	.45	.10	.02	--	--	--	--	--	--
JUL										
10...	.01	.52	.08	.16	<10	<5	20	2000	<10	130
AUG										
07...	<.01	.40	.06	.02	--	--	--	--	--	--
SEP										
05...	.01	.37	.09	.04	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	<10	--	--	--	--	--	--	--	--
NOV										
08...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	180	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	30	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07072500 BLACK RIVER AT BLACK ROCK, AR

LOCATION.--Lat 36°06'15", long 91°05'50", in NW¼ sec.21, T.17 N., R.1 W., Lawrence County, Hydrologic Unit 11010009, on right bank 900 ft (274 m) downstream from St. Louis-San Francisco Railway bridge at Black Rock, 3.7 mi (6.0 km) downstream from Spring River, and at mile 69.3 (109.8 km).

DRAINAGE AREA.--7,369 mi² (19,090 km²).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Nonrecording gage read twice daily, more often during rises. Datum of gage is 229.56 ft (69.970 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 1, 1946, at site 900 ft (274 m) upstream at present datum.

REMARKS.--Records good. Flow slightly regulated by Clearwater Lake (Missouri), 189 mi (304 km) upstream, since June 3, 1948, capacity, 413,700 acre-ft (510 hm³).

COOPERATION.--Gage-height record for Oct. 1 to Mar. 22 and three discharge measurements were furnished by Corps of Engineers.

AVERAGE DISCHARGE.--41 years, 8,385 ft³/s (237 m³/s), 6,075,000 acre-ft/yr (7,490 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 109,000 ft³/s (3,090 m³/s) Mar. 29, 1977; maximum gage height, 29.24 ft (8.912 m) Apr. 24, 1973; minimum daily discharge, 1,730 ft³/s (49.1 m³/s) in September, October, and November 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1915, reached a stage of 31.9 ft (9.72 m), from records of National Weather Service, discharge, 160,000 ft³/s (4,530 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,900 ft³/s (705 m³/s) Mar. 26, gage height, 19.92 ft (6.072 m); minimum observed, 2,690 ft³/s (76.2 m³/s) Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15400	3650	6500	8480	5060	8820	23400	6410	5610	3610	3530	6980
2	14200	6070	7390	7860	4990	9790	22400	6500	5690	3440	3420	5410
3	13000	10800	7720	7630	4820	14000	21400	6370	5530	3460	3250	4780
4	11900	12700	7880	7470	4820	14100	20200	6370	5320	3390	3650	4470
5	11100	12000	10400	7240	4790	12900	19300	6350	5180	3310	3790	4230
6	10500	11200	13000	7090	4620	11700	18200	6270	5180	3190	3420	4050
7	9920	10500	13700	6970	4580	12700	17400	6270	5280	3930	3310	3860
8	9440	9670	14300	6900	4390	16400	16400	11400	6850	3240	3230	3640
9	9100	9380	15100	6900	4300	17800	15400	10600	6950	3290	3180	3390
10	8540	9060	15400	6810	4210	17700	14900	9690	6140	3850	3130	3210
11	7860	8400	15000	6260	4140	17500	17600	9000	5800	4340	3090	3090
12	7140	7990	14400	6080	4240	17500	17800	8630	5690	5210	3040	3000
13	6740	7560	13500	6300	5510	17400	17300	8250	5360	4500	3070	2980
14	6160	7090	13600	6020	7160	19900	16300	7810	4690	5620	3140	2990
15	5750	6750	14700	5530	7540	21100	15200	7200	4460	6140	3230	3040
16	5360	6570	15000	5730	7590	21900	14400	6870	4330	6010	3180	3040
17	4870	6470	15200	5830	7480	22400	13600	6610	4240	6050	3060	3040
18	4320	6380	15900	5630	7480	22700	12900	6450	4140	5490	3020	2990
19	4050	6260	15400	5620	7470	22400	12100	7630	3970	5190	2920	2940
20	3860	6340	15000	5450	7280	22100	11000	9740	3860	5070	2870	2900
21	3710	7480	14500	5010	7020	22100	10600	8150	3890	4780	2850	2850
22	3580	7110	14100	4930	6930	22600	10000	7240	4030	4450	2830	2820
23	3500	6750	13500	4850	6760	22300	9540	6570	3900	4210	2800	2800
24	3430	6550	13000	4720	6900	22100	8830	5860	3850	4340	2780	2780
25	3340	6360	12200	4360	7820	23300	8350	5910	3950	3720	2760	2760
26	3290	6220	11300	4900	8270	24800	7830	6140	3950	3790	2820	2750
27	3270	6140	10900	6690	8360	24400	7350	6040	3940	3710	2880	2740
28	3210	6020	10400	6210	8690	23600	7010	5940	3860	3580	2880	2730
29	3210	5700	9820	5760	---	23400	6680	5880	3730	3520	3120	2720
30	3190	5620	9100	5560	---	23700	6410	5760	3630	3440	9260	2700
31	3250	---	8620	5370	---	23800	---	5660	---	3440	8910	---
TOTAL	206190	228790	386530	190160	173220	596910	419800	223570	143000	131310	108420	101680
MEAN	6651	7626	12470	6134	6186	19260	13990	7212	4767	4236	3497	3389
MAX	15400	12700	15900	8480	8690	24800	23400	11400	6950	6140	9260	6980
MIN	3190	3650	6500	4360	4140	8820	6410	5660	3630	3190	2760	2700
AC-FT	409000	453800	766700	377200	343600	1184000	832700	443500	283600	260500	215100	201700

CAL YR 1977 TOTAL 2914180 MEAN 7984 MAX 91700 MIN 2530 AC-FT 5780000
WTR YR 1978 TOTAL 2909580 MEAN 7971 MAX 24800 MIN 2700 AC-FT 5771000

WHITE RIVER BASIN

07072500 BLACK RIVER AT BLACK ROCK, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946, 1953, October 1967 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1945 to September 1946, October 1952 to September 1953.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)
OCT										
19...	1028	1028	4050	311	8.4	13.0	9.7	95	17	--
NOV										
15...	1028	1028	--	--	--	--	--	--	--	--
15...	1028	1028	6750	282	7.8	11.0	9.5	89	14	--
DEC										
12...	1028	1028	14400	244	7.7	4.0	11.4	90	43	--
FEB										
15...	1028	1028	7540	315	7.8	5.0	11.6	94	--	5
MAR										
15...	1028	1028	21100	219	7.2	9.0	8.0	71	25	--
MAY										
23...	1028	1028	6570	325	7.5	21.0	7.6	87	17	--
AUG										
31...	1028	1028	--	185	7.3	16.5	7.2	76	--	27
SEP										
21...	1028	1028	--	364	8.7	26.0	8.3	105	--	130

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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										
19...	1.4	K40	K68	170	20	35	20	2.3	3	.1
NOV										
15...	--	--	--	--	--	--	--	--	--	--
15...	1.5	K22	220	--	--	--	--	--	--	--
DEC										
12...	1.6	280	K2000	--	--	--	--	--	--	--
FEB										
15...	1.8	K40	1800	--	--	--	--	--	--	--
MAR										
15...	2.0	K410	1400	--	--	--	--	--	--	--
MAY										
23...	1.2	K87	48	--	--	--	--	--	--	--
AUG										
31...	.8	>1200	K3000	--	--	--	--	--	--	--
SEP										
21...	--	--	K170	--	--	--	--	--	--	--

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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										
19...	1.6	180	1	150	1.2	7.2	3.1	.1	8.8	156
NOV										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
FEB										
15...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	--	--	--	--	--	--	--	--	--	--

07072500 BLACK RIVER AT BLACK ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS) (01001)
OCT										
19...	168	.21	1710	.23	.18	.41	1.8	.07	1	0
NOV										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	.16	.38	.54	2.4	.06	--	--
DEC										
12...	--	--	--	.42	1.4	1.8	8.1	.07	--	--
FEB										
15...	--	--	--	.40	.20	.60	2.7	.04	--	--
MAR										
15...	--	--	--	.35	.65	1.0	4.4	.15	--	--
MAY										
23...	--	--	--	.30	.33	.63	2.8	.04	--	--
AUG										
31...	--	--	--	.19	.62	.81	3.6	.12	--	--
SEP										
21...	--	--	--	.15	.31	.46	2.0	.05	--	--

DATE	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD) (01026)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR) (01031)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO) (01036)
OCT									
19...	1	<10	<10	0	10	10	0	<50	<50
NOV									
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
DEC									
12...	--	--	--	--	--	--	--	--	--
FEB									
15...	--	--	--	--	--	--	--	--	--
MAR									
15...	--	--	--	--	--	--	--	--	--
MAY									
23...	--	--	--	--	--	--	--	--	--
AUG									
31...	--	--	--	--	--	--	--	--	--
SEP									
21...	--	--	--	--	--	--	--	--	--

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU) (01041)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)
OCT											
19...	0	<10	<10	0	490	60	<100	<100	0	70	30
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT											
19...	40	.0	.0	.0	0	0	0	30	30	0	2.3
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	2.3

07072500 BLACK RIVER AT BLACK ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PCB, TOTAL (UG/L) (39516)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	.0	0	.00	.00	.0	.0	.00	.8	.00	.8	.00
FEB 15...	--	--	--	--	--	--	--	--	--	--	--

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN TOTAL (UG/L) (39380)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	.0	.00	.0	.00	.4	.00	.0	.00	.0	.00	.0
FEB 15...	--	--	--	--	--	--	--	--	--	--	--

DATE	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)
OCT 19...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0
FEB 15...	--	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L) (39755)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)
NOV 15...	.00	.00	.0	0	0	.00	.0	.00	.00	.00

07072500 BLACK RIVER AT BLACK ROCK, AR--CONTINUED

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

PHYTOPLANKTON

DATE	OCT 19,77
TIME	1000
TOTAL CELLS/ML	1900
DIVERSITY: DIVISION	1.6
.CLASS	1.6
..ORDER	1.8
...FAMILY	2.4
....GENUS	2.5

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...COELASTRACEAE		
....COELASTRUM	240	13
...OOCYSTACEAE		
....ANKISTRODESMUS	15	1
...SCENEDESMACEAE		
....ACTINASTRUM	120	6
....SCENEDESMUS	60	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	120	6
..PENNALES		
...CYMBELLACEAE		
....EPITHEMIA	30	2
...FRAGILARIACEAE		
....SYNEDRA	140	7
...NAVICULACEAE		
....NAVICULA	30	2
...NITZSCHIACEAE		
....NITZSCHIA	120	6
CRYPTOPHYTA (CRYPTOMONADS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOCHRYSIDACEAE		
....RHODOMONAS	15	1
...CRYPTOMONODACEAE		
....CRYPTOMONAS	15	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	950#	51
...RIVULARIACEAE		
....RAPHIDIOPSIS	15	1

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 15	27	--	--	--	.340	.000	--	POLYETHYLENE STRIP

07073000 STRAWBERRY RIVER NEAR EVENING SHADE, AR

LOCATION.--Lat 36°05'56", long 91°36'30", in NE¼NE¼ sec.27, T.17 N., R.6 W., Sharp County, Hydrologic Unit 11010012, near left bank on downstream side of bridge on U.S. Highway 167, 2.0 mi (3.2 km) north of Evening Shade, 6.3 mi (10.1 km) upstream from Piney Fork, and at mile 55.9 (89.9 km).

DRAINAGE AREA.--217 mi^2 (562 km^2).

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

REVISED RECORDS.--WRD Ark. 1973: Drainage area. WRD Ark. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 406.56 ft (123.919 m) National Geodetic Vertical Datum of 1929. Prior to July 23, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Gage-height record for the period Oct. 1 to Feb. 28, and six discharge measurements were furnished by the Corps of Engineers.

AVERAGE DISCHARGE.--39 years, 208 ft^3/s (5.89 m^3/s), 13.02 in/yr (331 mm/yr), 150,700 acre-ft/yr (186 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,000 ft^3/s (878 m^3/s) Jan. 24, 1949, gage height, 26.59 ft (8.105 m), from rating curve extended above 16,000 ft^3/s (453 m^3/s); minimum, 2.8 ft^3/s (0.079 m^3/s) Sept. 23, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,690 ft^3/s (76.2 m^3/s) Nov. 3, gage height, 12.17 ft (3.709 m), no peak above base of 4,000 ft^3/s (110 m^3/s); minimum, 12 ft^3/s (0.34 m^3/s) Aug. 23, 24, 25, gage height, 3.50 ft (1.067 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	29	215	94	133	329	243	175	65	27	22	41
2	147	1200	245	86	123	550	224	186	68	26	20	29
3	101	1860	175	79	114	1210	207	157	120	26	20	24
4	76	604	148	75	106	586	209	188	87	25	20	22
5	64	358	988	73	101	415	207	181	99	28	19	22
6	56	267	562	73	95	358	190	149	152	24	19	20
7	48	213	315	74	87	1200	175	688	167	24	18	18
8	52	176	252	77	80	1330	163	883	119	23	19	17
9	49	175	291	69	78	775	155	420	93	23	17	17
10	46	168	252	65	75	550	547	287	79	24	17	17
11	42	144	206	63	74	445	784	231	66	28	16	17
12	35	131	192	63	73	365	422	202	59	51	16	18
13	43	123	204	62	430	388	307	190	52	52	16	20
14	37	116	829	58	440	874	251	190	48	35	15	24
15	28	111	541	55	289	565	222	154	44	37	15	24
16	26	123	378	74	249	694	198	138	41	77	15	23
17	28	174	700	115	225	820	184	131	38	70	15	22
18	34	142	529	123	211	565	175	130	38	39	14	21
19	25	100	368	123	192	442	164	148	36	32	14	19
20	28	88	297	114	184	370	152	188	35	29	14	19
21	26	90	247	106	188	929	144	149	35	28	14	18
22	23	81	216	96	180	784	115	135	34	26	13	18
23	21	81	197	91	193	508	106	149	33	25	12	17
24	21	76	184	151	301	1420	102	141	33	24	12	16
25	20	71	170	415	350	1120	96	113	32	25	13	17
26	20	65	154	345	289	670	87	99	31	23	16	17
27	17	63	144	229	249	495	82	89	31	23	14	16
28	18	59	137	184	295	418	82	84	30	22	13	17
29	18	58	130	160	---	352	81	87	29	22	39	16
30	16	61	131	147	---	307	93	89	28	21	321	15
31	18	---	102	144	---	269	---	74	---	23	61	---
TOTAL	1396	7007	9499	3683	5404	20103	6167	6225	1822	962	869	601
MEAN	45.0	234	306	119	193	648	206	201	60.7	31.0	28.0	20.0
MAX	213	1860	988	415	440	1420	784	883	167	77	321	41
MIN	16	29	102	55	73	269	81	74	28	21	12	15
CFSM	.21	1.08	1.41	.55	.89	2.99	.95	.93	.28	.14	.13	.09
IN.	.24	1.20	1.63	.63	.93	3.45	1.06	1.07	.31	.16	.15	.10
AC-FT	2770	13900	18840	7310	10720	39870	12230	12350	3610	1910	1720	1190

CAL YR 1977 TOTAL 65657.3 MEAN 180 MAX 18200 MIN 8.7 CFSM .83 IN 11.26 AC-FT 130200
WTR YR 1978 TOTAL 63738.0 MEAN 175 MAX 1860 MIN 12 CFSM .81 IN 10.93 AC-FT 126400

07073500 PINEY FORK AT EVENING SHADE, AR

LOCATION.--Lat 36°04'50", long 91°36'39", in SE¼NE¼ sec.34, T.17 N., R.6 W., Sharp County, Hydrologic Unit 11010012, on right bank 20 ft (6 m) upstream from bridge on U.S. Highway 167, 0.8 mi (1.3 km) north of Evening Shade, and at mile 5.8 (9.3 km).

DRAINAGE AREA.--99.2 mi^2 (256.9 km^2).

PERIOD OF RECORD.--February 1939 to current year. Prior to October 1962, published as Piney Fork Strawberry River at Evening Shade.

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

GAGE.--Water-stage recorder. Datum of gage is 420.62 ft (128.205 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 5, 1945, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Gage-height record for Oct. 1 to Mar. 8 and five discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--39 years, 90.4 ft^3/s (2.56 m^3/s), 12.38 in/yr (314 mm/yr), 65,490 acre-ft/yr (80.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s (496 m^3/s) Jan.24, 1949, gage height, 23.42 ft (7.138 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft^3/s (36.8 m^3/s) Nov. 3, gage height, 7.19 ft (2.192 m), no peak above base of 2,000 ft^3/s (57 m^3/s); minimum, 1.8 ft^3/s (0.051 m^3/s) Aug. 25, gage height, 2.98 ft (0.908 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	13	72	38	70	130	107	84	29	13	6.8	23
2	48	361	63	34	66	207	100	73	34	12	5.9	17
3	39	541	55	33	61	368	94	68	43	12	6.5	13
4	34	140	52	32	57	199	96	83	34	11	7.0	12
5	32	96	215	31	53	161	94	74	57	10	6.9	11
6	29	77	123	30	50	148	87	65	178	10	6.4	9.6
7	26	66	88	33	47	521	79	288	101	10	5.6	9.0
8	27	57	81	47	45	426	75	277	76	10	5.3	8.5
9	25	53	85	32	43	270	72	164	63	14	5.1	8.4
10	22	47	67	30	43	214	236	126	53	9.2	4.7	7.7
11	20	41	61	31	43	181	516	107	47	11	4.6	7.9
12	19	38	58	32	43	154	217	96	43	18	4.6	9.1
13	18	34	62	28	224	188	163	87	38	15	4.5	13
14	16	33	193	27	142	400	135	77	35	12	4.2	19
15	15	31	122	27	104	235	120	71	32	16	4.0	14
16	15	34	101	35	97	286	108	65	30	14	3.7	11
17	14	39	148	58	89	239	99	61	28	11	3.4	10
18	13	32	119	77	85	190	91	58	26	9.8	2.9	9.2
19	12	29	98	52	78	169	82	64	25	8.9	2.8	8.5
20	12	29	84	48	76	150	77	57	24	8.4	2.6	8.7
21	11	36	73	50	79	289	71	52	25	8.2	2.6	7.9
22	12	33	67	43	73	211	67	52	30	7.8	2.5	7.7
23	9.0	30	63	41	80	174	68	53	22	7.6	3.4	7.4
24	9.7	29	59	79	123	415	62	58	20	7.6	2.7	7.4
25	9.7	27	54	200	136	282	58	48	20	7.4	2.1	7.1
26	9.7	25	49	153	109	209	54	41	18	7.0	8.1	7.0
27	9.0	25	46	125	97	178	51	38	17	6.8	5.4	6.8
28	8.9	25	43	102	130	155	49	37	16	6.5	3.7	6.6
29	10	24	41	91	---	140	48	40	14	6.0	60	6.4
30	8.4	26	42	82	---	126	46	35	13	5.2	399	6.3
31	10	---	41	77	---	116	---	31	---	7.1	41	---
TOTAL	608.4	2071	2525	1798	2343	7131	3222	2530	1191	312.5	628.0	300.2
MEAN	19.6	69.0	81.5	58.0	83.7	230	107	81.6	39.7	10.1	20.3	10.0
MAX	65	541	215	200	224	521	516	288	178	18	399	23
MIN	8.4	13	41	27	43	116	46	31	13	5.2	2.1	6.3
CFSM	.20	.70	.82	.59	.84	2.32	1.08	.82	.40	.10	.21	.10
IN.	.23	.78	.95	.67	.88	2.67	1.21	.95	.45	.12	.24	.11
AC-FT	1210	4110	5010	3570	4650	14140	6390	5020	2360	620	1250	595

CAL YR 1977	TOTAL	23427.4	MEAN 64.2	MAX 6820	MIN 2.7	CFSM .65	IN 8.79	AC-FT 46470				
WTR YR 1978	TOTAL	24660.1	MEAN 67.6	MAX 541	MIN 2.1	CFSM .68	IN 9.25	AC-FT 48910				

07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, AR

LOCATION.--Lat 36°06'37", long 91°26'59", in SE¼NW¼ sec.19, T.17 N., R.4 W., Sharp County, Hydrologic Unit 11010012, on right bank on downstream side of bridge on State Highway 58, 0.5 mi (0.8 km) downstream from Hurricane Creek, 2.5 mi (4.0 km) northeast of Poughkeepsie, and at mile 35.9 (57.8 km).

DRAINAGE AREA.--473 mi^2 (1,225 km^2).

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

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

GAGE.--Water-stage recorder. Datum of gage is 298.07 ft (90.852 m) National Geodetic Vertical Datum of 1929. (Corps of Engineers bench mark). Prior to Dec. 10, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Records for 1977 water year furnished by Corps of Engineers and reviewed by Geological Survey. Gage-height record for Oct. 1, 1977, to Feb. 28, 1978, and six discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--42 years, 509 ft^3/s (14.4 m^3/s), 14.61 in/yr (371 mm/yr), 368,800 acre-ft/yr (455 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,000 ft^3/s (1,470 m^3/s) Jan. 24, 1949, gage height, 29.30 ft (8.931 m), from rating curve extended above 27,000 ft^3/s (765 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 31 ft^3/s (0.88 m^3/s) Oct. 4, 1938.

EXTREMES FOR 1977 WATER YEAR.--Maximum discharge, 32,300 ft^3/s (915 m^3/s) Mar. 28 at 0230 hours, gage height, 24.27 ft (7.397 m), no other peak above base of 7,000 ft^3/s (198 m^3/s); minimum, 61 ft^3/s (1.73 m^3/s) Oct. 16-19, gage height, 1.36 ft (0.415 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,640 ft^3/s (131 m^3/s) Apr. 10, gage height, 10.39 ft (3.167 m), no peaks above base of 7,000 ft^3/s (200 m^3/s); minimum, 58 ft^3/s (1.64 m^3/s) Aug. 23, 24, 25, gage height, 1.52 ft (0.463 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	85	72	73	121	279	1360	302	108	92	60	116
2	66	77	72	73	124	251	1200	315	108	87	57	91
3	64	73	72	73	127	1170	1130	305	97	84	57	79
4	64	70	76	72	135	2220	945	285	94	78	65	72
5	67	71	72	75	157	1030	793	257	90	74	81	74
6	74	71	83	77	184	679	663	237	88	73	61	76
7	73	70	90	77	183	527	566	213	82	70	55	125
8	73	69	88	74	162	445	515	202	79	70	55	107
9	66	68	85	83	151	389	469	210	79	67	56	82
10	65	68	92	82	146	348	438	200	77	168	58	77
11	66	74	143	85	147	1890	410	185	77	110	64	71
12	66	78	130	86	176	2480	383	169	76	83	67	78
13	65	76	116	86	189	1230	356	160	89	71	61	106
14	65	79	107	86	203	802	339	150	80	69	76	160
15	64	82	103	86	188	628	318	145	78	68	76	237
16	63	81	98	87	172	513	292	136	79	64	72	157
17	61	80	94	87	162	448	273	129	81	62	89	136
18	61	80	90	89	157	426	266	122	87	63	104	127
19	66	80	89	89	147	404	262	116	83	61	96	118
20	85	79	84	89	139	363	253	112	84	62	92	102
21	80	76	80	89	133	334	310	107	82	67	79	94
22	78	75	80	89	130	318	618	102	79	74	72	91
23	75	74	80	89	145	301	1080	116	76	102	72	92
24	100	72	79	89	255	282	834	206	73	91	70	669
25	101	73	80	87	316	259	554	126	74	76	69	984
26	90	77	80	85	251	246	445	112	74	71	61	531
27	84	76	79	89	287	4940	386	103	74	73	58	364
28	74	74	78	130	356	27000	350	96	76	71	56	266
29	76	74	76	136	---	10900	318	92	92	67	516	2300
30	96	73	76	140	---	2590	297	89	89	66	474	1150
31	91	---	73	131	---	1770	---	104	---	63	161	---
TOTAL	2286	2255	2717	2783	5043	65462	16423	5203	2505	2397	3090	8732
MEAN	73.7	75.2	87.6	89.8	180	2112	547	168	83.5	77.3	99.7	291
MAX	101	85	143	140	356	27000	1360	315	108	168	516	2300
MIN	61	68	72	72	121	246	253	89	73	61	55	71
CFSM	.16	.16	.19	.19	.38	4.47	1.16	.36	.18	.16	.21	.62
IN.	.18	.18	.21	.22	.40	5.15	1.29	.41	.20	.19	.24	.69
AC-FT	4530	4470	5390	5520	10000	129800	32580	10320	4970	4750	6130	17320

CAL YR 1976	TOTAL	101361	MEAN 277	MAX	2520	MIN 61	CFSM .59	IN 7.97	AC-FT	201000		
WTR YR 1977	TOTAL	118896	MEAN 326	MAX	27000	MIN 55	CFSM .69	IN 9.35	AC-FT	235800		

07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551	125	385	256	397	762	623	492	213	107	88	205
2	371	1640	516	239	376	1270	579	438	313	102	81	161
3	288	3080	403	230	348	2500	539	400	447	98	80	136
4	242	1140	359	221	327	1370	555	441	279	97	80	122
5	214	706	1300	216	311	1020	545	432	284	93	80	111
6	195	532	1150	212	296	894	511	378	586	94	78	104
7	184	436	686	211	286	2460	472	1860	565	92	75	97
8	191	372	559	252	275	2810	444	1860	389	92	74	91
9	173	341	548	223	270	1730	427	987	313	94	74	87
10	163	312	533	209	260	1300	1420	696	271	98	73	85
11	153	285	443	206	248	1090	2540	569	241	112	72	86
12	138	259	413	207	248	935	1190	505	223	118	72	93
13	134	242	453	202	922	1140	867	463	204	183	72	103
14	135	231	1220	192	1010	2040	707	424	189	164	71	128
15	125	221	1060	186	709	1440	619	378	177	246	69	122
16	114	244	773	240	620	1590	558	347	167	158	68	111
17	113	274	936	353	566	1610	514	326	160	165	67	103
18	111	273	1020	359	535	1300	482	324	154	140	65	96
19	113	236	732	350	491	1070	444	586	148	118	64	92
20	105	211	614	326	468	935	416	492	144	107	63	88
21	106	228	524	312	482	1740	391	400	144	101	62	85
22	106	217	467	305	463	1780	368	355	144	95	61	82
23	101	206	431	290	471	1190	347	337	143	92	58	80
24	97	200	407	540	661	1890	326	347	148	90	58	79
25	99	189	378	1010	795	2310	308	303	135	88	59	76
26	96	180	348	933	706	1400	291	274	127	86	76	77
27	94	175	326	691	607	1130	274	253	121	84	78	76
28	91	171	308	597	676	968	262	244	118	81	71	76
29	90	167	297	500	---	845	255	244	115	80	453	77
30	90	178	300	454	---	752	255	234	110	78	1760	73
31	90	---	284	422	---	676	---	219	---	89	353	---
TOTAL	4873	13071	18173	10944	13824	43947	17529	15608	6772	3442	4555	3002
MEAN	157	436	586	353	494	1418	584	503	226	111	147	100
MAX	551	3080	1300	1010	1010	2810	2540	1860	586	246	1760	205
MIN	90	125	284	186	248	676	255	219	110	78	58	73
CFSM	.33	.92	1.24	.75	1.04	3.00	1.24	1.06	.48	.24	.31	.21
IN.	.38	1.03	1.43	.86	1.09	3.46	1.38	1.23	.53	.27	.36	.24
AC-FT	9670	25930	36050	21710	27420	87170	34770	30960	13430	6830	9030	5950

CAL YR 1977 TOTAL 147755 MEAN 405 MAX 27000 MIN 55 CFSM .86 IN 11.62 AC-FT 293100
WTR YR 1978 TOTAL 155740 MEAN 427 MAX 3080 MIN 58 CFSM .90 IN 12.25 AC-FT 308900

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, AR

LOCATION.--Lat 36°01'40", long 91°19'31", in NW¼SE¼ sec.17, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, at bridge on State Highway 115, 2.0 mi (3.2 km) upstream from Reeds Creek, and Cooper Creek, and 3.9 mi (6.3 km) southwest of Smithville.

DRAINAGE AREA.--539 mi² (1,396 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	415	8.5	14.0	0	10.3	99	.7	<13	280
NOV											
08...	9827	9827	365	8.1	18.0	5	8.9	94	1.3	8	--
DEC											
12...	9827	9827	374	--	5.0	0	12.6	98	1.9	<4	--
JAN											
30...	9827	9827	368	8.2	1.0	5	13.7	96	2.3	<4	190
FEB											
13...	9827	9827	372	8.2	4.0	30	12.0	92	3.4	160	--
MAR											
13...	9827	9827	336	8.1	9.0	5	10.5	91	1.0	40	--
APR											
10...	9827	9827	382	8.1	21.0	5	8.6	96	1.5	13	200
MAY											
08...	9827	9827	--	8.0	19.0	80	7.9	84	2.6	1000	--
JUN											
28...	9827	9827	409	8.1	30.0	5	8.5	112	1.8	10	--
JUL											
10...	9827	9827	371	8.2	26.0	10	7.5	91	1.9	--	210
AUG											
07...	9827	9827	396	8.3	24.0	0	8.1	95	1.3	20	--
SEP											
05...	9827	9827	--	8.1	26.0	5	7.8	95	--	38	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	65	27	2.0	1.5	230	2.0	5.0	237	16	.08
NOV										
08...	--	--	--	--	--	7.0	5.5	--	29	.41
DEC										
12...	--	--	--	--	--	8.0	5.5	209	15	.45
JAN										
30...	40	22	2.8	1.2	200	6.0	5.0	209	14	.35
FEB										
13...	--	--	--	--	--	3.0	5.5	--	--	.36
MAR										
13...	--	--	--	--	--	5.0	4.5	175	32	.44
APR										
10...	42	23	3.4	1.4	200	4.0	6.0	208	13	.21
MAY										
08...	--	--	--	--	--	5.0	5.0	160	106	.17
JUN										
28...	--	--	--	--	--	<1.0	5.5	229	26	.00
JUL										
10...	35	30	2.0	2.1	210	<1.0	5.0	228	45	.22
AUG										
07...	--	--	--	--	--	<1.0	4.5	229	25	--
SEP										
05...	--	--	--	--	--	--	4.0	205	22	.22

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.08	.09	.07	<10	<5	<10	--	10	120
NOV										
08...	<.05	.43	.10	.06	<10	--	60	720	--	160
DEC										
12...	<.05	.46	.07	.03	--	--	200	540	--	2200
JAN										
30...	.01	.36	.05	.01	<10	<5	70	340	60	540
FEB										
13...	.01	.37	.10	.08	<10	--	20	2000	--	240
MAR										
13...	<.01	.44	.04	.02	<10	--	170	790	--	140
APR										
10...	.01	.22	.04	.04	<10	<5	90	260	20	99
MAY										
08...	.01	.18	.07	.18	10	--	70	3000	--	870
JUN										
28...	.01	.17	.04	.07	<10	--	20	770	--	120
JUL										
10...	<.01	.22	.06	.12	<10	<5	20	1200	<10	300
AUG										
07...	<.01	.16	.06	.03	<10	--	30	530	--	200
SEP										
05...	.01	.23	.07	.04	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	50	--	--	--	--	--	--	--	--
NOV										
08...	--	60	--	--	--	--	--	--	--	--
DEC										
12...	--	270	.00	.00	.00	.00	.00	.00	.00	0
JAN										
30...	--	130	--	--	--	--	--	--	--	--
FEB										
13...	--	100	--	--	--	--	--	--	--	--
MAR										
13...	--	30	--	--	--	--	--	--	--	--
APR										
10...	--	50	--	--	--	--	--	--	--	--
MAY										
08...	--	90	--	--	--	--	--	--	--	--
JUN										
28...	--	210	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	20	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07074490 BLACK RIVER AT JACKSONPORT, AR

LOCATION.--Lat 35°38'30", long 91°19'24", in SW¼SW¼ sec.28, T.12 N., R.3 W., Jackson County, Hydrologic Unit 11010009, at Point Ferry on State Highway 69, 600 ft (183 m) upstream from mouth, and 0.7 mi (1.1 km) west of Jacksonport.

DRAINAGE AREA.--8,557 mi² (22,163 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	283	8.0	15.0	10	9.1	89	.8	210	180
NOV											
08...	9827	9827	272	7.8	18.0	20	7.9	83	1.3	75	--
DEC											
12...	9827	9827	251	--	4.0	50	11.8	90	2.3	260	--
JAN											
30...	9827	9827	299	7.9	1.0	5	13.4	94	2.3	13	150
FEB											
13...	9827	9827	344	8.0	4.0	15	12.6	96	3.4	53	--
MAR											
13...	9827	9827	244	7.9	8.0	50	10.8	91	1.7	10	--
APR											
10...	9827	9827	242	7.8	20.0	15	7.8	85	4.8	32	110
MAY											
08...	9827	9827	--	8.0	21.0	60	8.0	89	5.7	900	--
JUN											
28...	9827	9827	343	8.3	29.0	5	4.7	124	3.1	<13	--
JUL											
10...	9827	9827	337	8.2	26.0	5	6.8	107	2.3	180	150
AUG											
07...	9827	9827	337	8.3	26.0	0	8.4	102	2.3	90	--
SEP											
05...	9827	9827	--	8.1	25.0	10	7.8	93	--	330	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	40	18	2.2	1.8	140	1.0	5.5	167	56	.23
NOV										
08...	--	--	--	--	--	5.0	--	--	70	.24
DEC										
12...	--	--	--	--	--	7.0	4.5	156	54	.43
JAN										
30...	29	19	2.9	1.0	160	4.0	5.0	168	74	.33
FEB										
13...	--	--	--	--	--	3.0	8.0	191	--	.27
MAR										
13...	--	--	--	--	--	6.0	5.0	139	72	.41
APR										
10...	22	13	3.8	1.7	120	3.0	4.5	132	24	.07
MAY										
08...	--	--	--	--	--	3.0	6.0	170	84	.35
JUN										
28...	--	--	--	--	--	.5	6.5	190	70	.10
JUL										
10...	29	19	4.2	1.3	190	2.0	7.0	201	107	.11
AUG										
07...	--	--	--	--	--	<1.0	6.0	200	104	--
SEP										
05...	--	--	--	--	--	--	5.5	165	66	.14

07074490 BLACK RIVER AT JACKSONPORT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.23	<.05	.07	<10	<5	<10	--	<10	130
NOV										
08...	<.05	.25	.12	.11	--	--	--	--	--	--
DEC										
12...	<.05	.44	.10	.10	--	--	--	--	--	--
JAN										
30...	<.01	.33	.05	.04	<10	<5	30	980	<10	100
FEB										
13...	<.01	.27	.09	.08	--	--	--	--	--	--
MAR										
13...	.01	.42	.08	.05	--	--	--	--	--	--
APR										
10...	.01	.08	.06	.06	<10	<5	160	540	<10	110
MAY										
08...	.02	.37	.11	.28	--	--	--	--	--	--
JUN										
28...	.01	.11	.05	.01	--	--	--	--	--	--
JUL										
10...	<.01	.11	.08	.15	<10	<5	20	1800	<10	210
AUG										
07...	<.01	.23	.05	.10	--	--	--	--	--	--
SEP										
05...	.01	.15	.01	.10	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	10	--	--	--	--	--	--	--	--
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
30...	--	10	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	80	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BASIN

07074500 WHITE RIVER AT NEWPORT, AR

LOCATION.--Lat 35°36'18", long 91°17'19", in NE¼NE¼ sec.10, T.11 N., R.3 W., Jackson County, Hydrologic Unit 11010013, on left bank 100 ft (30 m) below bridge on U.S. Highway 67 at Newport, 7.2 mi (11.6 km) downstream from Black River, and at mile 257.6 (414.5 km).

DRAINAGE AREA.--19,860 mi^2 (51,440 km^2).

PERIOD OF RECORD.--September 1927 to September 1931 (published as "near Newport"), October 1937 to current year. Gage-height records collected at present site since 1885 are contained in reports of National Weather Service.

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

GAGE.--Water-stage recorder. Datum of gage is 194.09 ft (59.159 m) National Geodetic Vertical Datum of 1929. September 1927 to September 1931, nonrecording gage at site 2.8 mi (4.5 km) downstream at datum 2.30 ft (0.701 m) lower. Oct. 1, 1937, to Aug. 14, 1953, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by Norfork Lake since 1943 (see station 07059500), by Clearwater Lake (Missouri) since 1948, capacity, 413,700 acre-ft (509 hm^3), by Bull Shoals Lake since July 24, 1951 (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

COOPERATION.--Gage-height record for Oct. 1 to Mar. 27 and three discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--45 years, 22,650 ft^3/s (641 m^3/s), 16,410,000 acre-ft/yr (20,200 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 343,000 ft^3/s (9,610 m^3/s) Apr. 17, 1945; maximum gage height observed, 35.9 ft (10.94 m) Apr. 18, 1945; minimum discharge, 2,870 ft^3/s (81.3 m^3/s) Sept. 27-30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1927, that of Apr. 18, 1945. Flood of Apr. 16, 1927, reached a stage of 35.6 ft (10.85 m), from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57,500 ft^3/s (1,630 m^3/s) Mar. 26, gage height, 23.00 ft (7.010 m); minimum, 5,800 ft^3/s (164 m^3/s) Sept. 26, gage height, 0.64 ft (0.195 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28000	6800	21700	18200	15300	18700	45700	18800	22100	16700	9120	13700
2	27900	8780	21200	17200	15000	20800	45700	19000	20300	16300	8380	12100
3	24800	16800	18900	18300	15500	24400	45600	23700	21000	13100	7790	11100
4	22100	20800	17300	19400	14900	27900	46100	27500	20200	10500	7230	11400
5	20100	21600	17100	17200	15200	29700	46700	29500	18300	11000	6790	12100
6	18700	22200	20300	15500	14700	29600	47400	32000	18300	10900	6500	14400
7	17100	20200	23300	14800	15400	27900	47300	34400	20800	13300	6160	14900
8	15600	18200	25900	14700	15400	29200	46900	43100	20900	14100	6740	16200
9	14500	19100	27500	14500	15800	32800	47700	51100	22100	13200	7720	17200
10	13700	19100	26500	15800	15100	34300	47600	51300	21800	11500	8490	13800
11	12900	19400	27300	21500	14100	34100	47900	44200	20600	10300	9400	9980
12	11900	19000	26700	22300	13200	32800	49200	42100	19600	9710	9150	8010
13	11500	17900	25800	21700	13100	32100	50800	42500	16500	10400	9050	7870
14	13600	16400	25900	22100	14800	33800	52200	42100	17000	13400	9370	8870
15	13600	14900	27800	19700	18700	36900	52600	41300	16800	17400	9420	9000
16	12000	16400	30200	18100	21100	38800	52500	40100	16400	17800	10500	9230
17	10400	19500	30200	17500	20000	38800	52200	38700	15900	15100	11100	9270
18	8840	20200	29400	20300	19600	39400	52000	37900	15500	13800	10800	11200
19	10200	20700	28100	21100	18800	39800	51000	38000	13100	16600	10300	11700
20	13200	22100	27500	18800	17300	39300	48200	38000	11100	17800	12400	12900
21	14500	18400	26800	17000	16200	37900	45800	36200	12800	17100	10600	14100
22	13600	16400	27500	16600	16400	37900	43000	31400	13800	17200	7360	14600
23	12200	19100	28000	14600	17100	38500	39300	27800	15100	15700	6500	11400
24	9980	19300	27000	14100	18500	89100	33200	26300	16400	13200	9770	8720
25	8160	17000	25300	18000	19300	46400	27400	26000	17300	11100	10300	7060
26	8000	14300	24000	21200	18900	55700	25700	26100	14500	9240	12600	6040
27	11000	15900	23200	22500	17900	55800	24600	25100	13400	8800	13800	6470
28	10500	22500	22400	22900	17500	51700	23600	24300	15300	9020	10900	7320
29	10000	19100	20700	20400	---	48300	22500	23900	16200	8730	9390	7490
30	9980	20100	20200	18100	---	45400	20600	23000	16200	8910	10100	7880
31	7600	---	19500	16400	---	45500	---	22800	---	9980	14200	---
TOTAL	436160	542180	763200	570500	464800	1143300	1281000	1028200	519300	401890	291930	326010
MEAN	14070	18070	24620	18400	16600	36880	42700	33170	17310	12960	9417	10870
MAX	28000	22500	30200	22900	21100	55800	52600	51300	22100	17800	14200	17200
MIN	7600	6800	17100	14100	13100	18700	20600	18800	11100	8730	6160	6040
AC-FT	865100	1075000	1514000	1132000	921900	2268000	2541000	2039000	1030000	797100	579000	646600

CAL YR 1977	TOTAL	5918440	MEAN	16210	MAX	119000	MIN	5140	AC-FT	11740000
WTR YR 1978	TOTAL	7768470	MEAN	21280	MAX	55800	MIN	6040	AC-FT	15410000

07074500 WHITE RIVER AT NEWPORT, AR--Continued
(National stream-quality accounting station)

WATER-QUALITY RECORDS

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 695 micromhos Jan. 30, 1954; minimum, 103 micromhos Jan. 28, 1949.
WATER TEMPERATURES: Maximum, 30.5°C Aug. 4, 9, 1947, Aug. 1, 1952; minimum, 1.0°C Feb. 2-4, 1951.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)
JAN 10...	1028	1028	14900	289	8.1	4.5	--	12.0	97	280	--	160
FEB 14...	1028	1028	14900	282	7.6	4.0	--	--	--	150	K3800	150
MAR 30...	1028	1028	45400	232	7.9	13.0	--	8.9	87	100	200	120
MAY 18...	1028	1028	37900	303	8.0	14.0	--	10.0	100	K7	K24	--
JUN 06...	1028	1028	18400	299	7.9	20.0	--	8.6	97	190	K67	130
JUL 12...	1028	1028	10500	305	7.4	26.5	70	7.2	91	K1900	K4800	160
AUG 11...	1028	1028	9500	321	8.1	26.5	9.3	8.6	109	K710	K40	160

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JAN 10...	15	34	17	2.1	3	.1	1.3	170	0	140	2.2	6.9
FEB 14...	11	34	16	4.1	6	.1	2.0	170	0	140	6.8	9.1
MAR 30...	3	29	11	1.3	2	.1	1.4	140	0	110	2.8	5.8
MAY 18...	--	--	15	2.2	--	--	1.6	180	0	150	2.9	7.3
JUN 06...	4	38	9.7	2.9	4	.1	1.4	160	0	130	3.2	9.3
JUL 12...	18	35	17	2.9	4	.1	1.8	--	--	140	--	8.4
AUG 11...	0	36	17	3.4	4	.1	1.5	--	--	160	--	7.7

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
JAN 10...	3.6	.2	5.8	155	155	.21	6240	.24	.03	--	--	--
FEB 14...	4.3	.1	5.3	143	159	.19	5750	.33	.04	.27	.31	.14
MAR 30...	2.9	.0	5.6	116	126	.16	14200	.33	.01	.47	.48	.00
MAY 18...	4.4	.1	5.2	159	--	.22	16300	.24	.01	.50	.51	.29
JUN 06...	5.1	.1	6.0	162	--	.22	8050	.31	.01	.44	.45	.21
JUL 12...	4.7	.1	7.9	173	162	.24	4910	.38	.07	.67	.74	.43
AUG 11...	7.7	.1	6.1	176	176	.24	4510	.12	.00	.54	.54	.26

07074500 WHITE RIVER AT NEWPORT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
JAN												
10...	1.3	--	--	.10	.07	1	0	1	0	0	0	1
FEB												
14...	.17	.64	2.8	.10	.02	--	--	--	--	--	--	--
MAR												
30...	.48	.81	3.6	.14	.07	--	--	--	--	--	--	--
MAY												
18...	.22	.75	3.3	.02	.02	--	--	--	--	--	--	--
JUN												
06...	.24	.76	3.4	.04	.00	--	--	--	--	--	--	--
JUL												
12...	.31	1.1	5.0	.10	.09	2	1	1	300	100	200	1
AUG												
11...	.28	.66	2.9	.04	.00	--	--	--	--	--	--	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)
JAN											
10...	1	0	0	0	0	0	0	0	20	16	4
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	1	0	30	20	10	2	1	1	8	0	8
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
JAN									
10...	730	--	10	9	9	0	80	70	10
FEB									
14...	--	--	--	--	--	--	--	--	--
MAR									
30...	--	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
JUL									
12...	2100	2100	30	20	20	0	280	270	10
AUG									
11...	--	--	--	--	--	--	--	--	--

07074500 WHITE RIVER AT NEWPORT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG) (01076)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
JAN									
10...	.0	.0	.0	0	0	0	0	0	0
FEB									
14...	--	--	--	--	--	--	--	--	--
MAR									
30...	--	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
JUL									
12...	.0	.0	.0	0	0	0	0	0	0
AUG									
11...	--	--	--	--	--	--	--	--	--

DATE	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	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)
JAN									
10...	30	30	0	--	2.2	.7	82	3300	64
FEB									
14...	--	--	--	4.2	--	--	112	4510	80
MAR									
30...	--	--	--	6.8	--	--	59	7230	85
MAY									
18...	--	--	--	3.9	--	--	--	--	--
JUN									
06...	--	--	--	2.9	--	--	82	4070	81
JUL									
12...	50	50	0	--	4.0	.5	157	4450	93
AUG									
11...	--	--	--	3.2	--	--	53	1360	60

07074500 WHITE RIVER AT NEWPORT, AR--CONTINUED

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

PHYTOPLANKTON

DATE TIME	MAR 30,78 1200		MAY 18,78 1245		JUN 6,78 1215		JUL 12,78 1300	
TOTAL CELLS/ML	540		870		1300		2000	
DIVERSITY: DIVISION	1.0		1.5		1.6		1.4	
.CLASS	1.0		1.5		1.6		1.5	
..ORDER	1.9		2.2		2.3		1.5	
...FAMILY	2.9		2.7		2.6		2.0	
....GENUS	3.1		3.0		3.1		2.5	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	110	6
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	29	1
....MICRACTINIUM	82	15	290#	34	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	27	5	16	2	67	5	86	4
....CHODATELLA	--	-	--	-	--	-	14	1
....KIRCHNERIELLA	--	-	16	2	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	14	1
....SELENASTRUM	--	-	--	-	--	-	43	2
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	170	9
....CRUCIGENIA	--	-	--	-	--	-	57	3
....SCENEDESMUS	54	10	--	-	--	-	86	4
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	82	9	89	7	--	-
...VOLVOCACEAE								
....PANDORINA	82	15	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	68	13	180#	21	340#	26	--	-
....MELOSIRA	54	10	65	8	180	14	--	-
..PENNALES								
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	45	3	--	-
....CYMBELLA	54	10	16	2	--	-	110	6
...DIATOMACEAE								
....DIATOMA	--	-	16	2	89	7	--	-
...FRAGILARIACEAE								
....SYNEDRA	82	15	33	4	--	-	--	-
...NAVICULACEAE								
....NAVICULA	41	7	33	4	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	--	-	16	2	110	9	--	-
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	22	2	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CHLOROTHECIACEAE								
....OPHIOCYTIUM	--	-	--	-	--	-	14	1
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	22	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCOCCALES								
...CHROCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	1100#	57
....ANACYSTIS	--	-	49	6	270#	21	29	1
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	16	2	45	3	29	1
....TRACHELOMONAS	--	-	33	4	22	2	57	3

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

07074850 WHITE RIVER AT AUGUSTA, AR

LOCATION.--Lat 35°17'23", long 91°23'18", in sec.27, T.8 N., R.4 W., Woodruff County, Hydrologic Unit 11010013, at bridge on U.S. Highway 64, 2.0 mi (3.2 km) west of Augusta.

DRAINAGE AREA.--20,464 mi² (53,002 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	278	8.2	16.0	5	9.4	94	2.2	46	200
NOV											
09...	9827	9827	261	7.9	16.0	20	8.1	81	1.4	60	--
DEC											
13...	9827	9827	262	--	5.0	20	12.1	95	1.3	130	--
JAN											
31...	9827	9827	262	7.9	1.0	20	13.2	93	2.5	10	130
FEB											
14...	9827	9827	310	8.0	3.0	5	12.8	95	2.0	690	--
MAR											
14...	9827	9827	239	7.9	8.0	40	11.2	94	2.4	20	--
APR											
11...	9827	9827	253	8.1	10.0	10	9.1	91	4.7	45	120
MAY											
08...	9827	9827	--	8.1	16.0	40	9.3	93	3.0	900	--
JUN											
29...	9827	9827	311	8.1	26.0	5	8.5	104	1.0	10	--
JUL											
11...	9827	9827	303	8.1	22.0	0	8.3	94	2.0	20	140
AUG											
08...	9827	9827	336	8.5	24.0	0	9.9	116	2.5	7	--
SEP											
06...	9827	9827	--	8.1	24.0	15	7.6	89	--	60	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	45	16	2.4	1.8	140	2.0	5.0	167	35	.18
NOV										
09...	--	--	--	--	--	6.0	6.0	--	55	.26
DEC										
13...	--	--	--	--	--	7.0	4.5	153	39	.36
JAN										
31...	26	15	2.7	1.5	130	5.0	5.5	151	20	.32
FEB										
14...	--	--	--	--	--	3.0	7.0	174	--	.20
MAR										
14...	--	--	--	--	--	7.0	4.5	140	54	.35
APR										
11...	27	13	2.7	1.8	130	4.0	5.5	140	47	.08
MAY										
08...	--	--	--	--	--	4.0	5.0	152	98	.29
JUN										
29...	--	--	--	--	--	7.0	5.5	178	57	.25
JUL										
11...	33	14	4.0	1.8	160	4.0	7.5	183	46	.26
AUG										
08...	--	--	--	--	--	<1.0	6.5	195	39	--
SEP										
06...	--	--	--	--	--	--	5.5	150	51	.28

07074850 WHITE RIVER AT AUGUSTA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.18	.19	.05	<10	<5	20	--	<10	130
NOV										
09...	<.05	.27	.14	.11	--	--	--	--	--	--
DEC										
13...	<.05	.37	.11	.09	--	--	--	--	--	--
JAN										
31...	<.01	.32	.07	.05	<10	<5	40	680	70	230
FEB										
14...	<.01	.20	.03	.05	--	--	--	--	--	--
MAR										
14...	.01	.36	.08	.07	--	--	--	--	--	--
APR										
11...	.01	.09	.07	.07	<10	8	40	1200	<10	150
MAY										
08...	.01	.30	.08	.21	--	--	--	--	--	--
JUN										
29...	.01	.26	.07	.01	--	--	--	--	--	--
JUL										
11...	<.01	.26	.07	.03	<10	<5	40	930	20	160
AUG										
08...	<.01	.13	.30	.06	--	--	--	--	--	--
SEP										
06...	.02	.30	.09	.10	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	10	--	--	--	--	--	--	--	--
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	--	--	--	--	--	--	--	--	--	--
JAN										
31...	--	70	.00	.00	.00	.00	.00	.00	.00	0
FEB										
14...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
11...	--	20	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	20	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
SEP										
06...	--	--	--	--	--	--	--	--	--	--

07074990 MIDDLE FORK LITTLE RED RIVER NEAR SHIRLEY, AR

LOCATION.--Lat 35°39'06", long 92°19'20", in NE¼ sec.25, T.12 N., R.13 W., Van Buren County, Hydrologic Unit 11010014, at bridge on State Highway 9, 0.2 mi (0.3 km) south of Shirley, and at mile 124.4 (200.2 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	98	7.6	15.0	0	9.6	94	.8	4	50
NOV											
14...	9827	9827	82	--	12.0	5	10.5	97	.8	12	--
DEC											
12...	9827	9827	82	--	6.0	10	13.6	109	3.0	92	--
JAN											
24...	9827	9827	79	7.0	4.0	5	13.0	99	1.1	18	24
FEB											
13...	9827	9827	109	7.2	5.0	30	12.3	96	2.7	110	--
21...	9827	9827	--	--	--	--	--	--	--	--	--
MAR											
13...	9827	9827	77	7.2	9.0	5	11.3	97	.9	17	--
APR											
10...	9827	9827	102	7.3	19.0	5	8.2	87	.5	8	34
MAY											
08...	9827	9827	60	6.9	16.0	60	9.3	93	1.5	550	--
JUN											
05...	9827	9827	119	7.4	23.0	50	7.5	86	.9	240	--
JUL											
10...	9827	9827	139	7.3	30.0	10	9.0	118	3.2	18	59
AUG											
07...	9827	9827	130	7.5	27.0	5	8.1	100	5.8	74	--
SEP											
05...	9827	9827	128	7.4	26.0	5	7.9	96	3.9	23	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	17	1.8	2.4	1.1	36	7.0	4.5	62	5	<.05
NOV										
14...	--	--	--	--	--	--	4.0	59	3	<.05
DEC										
12...	--	--	--	--	--	7.0	4.0	60	4	<.05
JAN										
24...	6.0	2.0	1.8	.6	26	--	4.5	40	7	<.05
FEB										
13...	--	--	--	--	--	7.0	4.0	76	44	.12
21...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	4.0	4.0	46	9	.07
APR										
10...	10	1.6	1.9	.9	39	3.0	4.0	60	2	.02
MAY										
08...	--	--	--	--	--	5.0	4.5	--	58	.10
JUN										
05...	--	--	--	--	--	1.0	4.5	--	25	.09
JUL										
10...	20	2.0	3.0	1.4	53	4.0	4.5	99	7	.01
AUG										
07...	--	--	--	--	--	1.0	4.5	93	17	--
SEP										
05...	--	--	--	--	--	--	4.5	--	12	.01

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
17...	<.05	<.05	.21	.01	<10	<5	<10	270	20	37
NOV										
14...	<.05	<.05	<.05	.01	<10	--	<20	420	--	23
DEC										
12...	<.05	.05	.04	.03	<10	--	--	610	--	46
JAN										
24...	<.05	<.05	<.05	.06	<10	<5	<20	350	20	66
FEB										
13...	.01	.13	.05	.10	<10	--	20	1900	--	140
21...	--	--	--	--	<10	--	<20	2900	--	130
MAR										
13...	.01	.08	--	.03	<10	--	50	500	--	68
APR										
10...	.01	.03	.05	.04	<10	7	<20	760	40	510
MAY										
08...	.01	.11	1.3	.13	<10	--	30	2700	--	150
JUN										
05...	.01	.10	.06	<.01	<10	--	<20	1600	--	67
JUL										
10...	<.01	.01	<.01	.10	<10	<5	<20	340	20	74
AUG										
07...	<.01	.02	.03	.07	<10	--	40	1100	--	180
SEP										
05...	.01	.02	.09	.06	<10	--	160	340	--	150

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	ODE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	10	--	--	--	--	--	--	--	--
NOV										
14...	--	20	.00	.00	.00	.00	.00	.00	.00	0
DEC										
12...	--	30	--	--	--	--	--	--	--	--
JAN										
24...	--	20	--	--	--	--	--	--	--	--
FEB										
13...	--	40	.00	.00	.00	.00	.00	.00	.00	0
21...	--	10	--	--	--	--	--	--	--	--
MAR										
13...	--	10	--	--	--	--	--	--	--	--
APR										
10...	--	40	--	--	--	--	--	--	--	--
MAY										
08...	--	40	--	--	--	--	--	--	--	--
JUN										
05...	--	20	--	--	--	--	--	--	--	--
JUL										
10...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	30	--	--	--	--	--	--	--	--
SEP										
05...	--	230	--	--	--	--	--	--	--	--

07075000 MIDDLE FORK LITTLE RED RIVER AT SHIRLEY, AR

LOCATION.--Lat 35°39'10", long 92°19'10", in SW¼ sec.20, T.12 N., R.12 W., Van Buren County, Hydrologic Unit 11010014, on right bank 0.5 mi (0.8 km) downstream from Sugar Camp (or Weavers) Creek, 1.0 mi (1.6 km) east of Shirley, and at mile 122.0 (196.3 km).

DRAINAGE AREA.--302 mi² (782 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 483.12 ft (147.255 m) National Geodetic Vertical Datum of 1929. Prior to June 6, 1939, nonrecording gage at site 70 ft (21 m) upstream at same datum.

REMARKS.--Records good.

COOPERATION.--Gage-height record for Oct. 1 to Feb. 28, and four discharge measurements were furnished by Corps of Engineers.

AVERAGE DISCHARGE.--39 years, 466 ft³/s (13.2 m³/s), 20.95 in/yr (532 mm/yr), 337,600 acre-ft/yr (416 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 101,000 ft³/s (2,860 m³/s) Jan. 24, 1949, gage height, 28.3 ft (8.63 m) in gage well; about 31 ft (9.4 m) on nonrecording gage, from stage-relation curve, from rating curve extended above 60,000 ft³/s (1,700 m³/s); no flow at times.
NOTE.--Maximum gage heights published prior to 1949 water year were referred to nonrecording gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Nov. 3	0100	11,000	312	16.26	4.956	May 7	2000	*13,200	374	17.27	5.264
Mar. 24	1300	11,300	320	16.38	4.993	Sept. 13	1730	7,940	225	14.58	4.444
May 1	1600	6,260	177	13.60	4.145						

Minimum discharge, 0.20 ft³/s (0.01 m³/s) Aug. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	930	609	940	177	325	980	440	4170	205	11	5.5	24
2	600	7090	830	152	293	980	400	2140	840	9.5	5.2	23
3	400	5770	600	127	263	1750	360	1540	455	8.4	4.7	24
4	325	1680	480	127	233	1080	360	1820	310	6.8	4.7	24
5	263	980	1190	127	233	780	360	1300	274	4.9	4.9	25
6	205	640	1180	127	205	640	360	930	534	4.7	4.4	24
7	205	480	780	127	205	1180	360	4740	372	4.7	4.1	24
8	177	360	640	103	177	2140	325	4800	296	5.7	3.9	23
9	177	440	680	103	177	1540	293	1900	245	6.5	3.3	22
10	152	440	560	82	177	1130	517	1080	202	5.7	2.8	22
11	127	325	440	82	152	880	2350	830	165	6.3	2.0	22
12	103	263	440	82	177	730	1300	680	138	6.5	1.8	26
13	103	205	480	82	1740	780	880	640	109	7.3	1.6	2870
14	82	177	1710	82	1540	2650	680	520	87	7.9	1.4	1450
15	65	152	1300	82	980	1420	560	400	71	10	1.2	560
16	52	263	930	127	780	1540	480	325	61	11	1.0	325
17	52	600	1080	233	600	1300	440	293	49	10	1.0	263
18	42	440	930	233	520	1030	400	233	44	9.7	.80	177
19	42	325	730	205	440	880	360	293	40	9.2	.80	127
20	34	293	600	205	360	680	293	293	37	8.4	.60	103
21	34	905	480	177	325	680	263	325	38	7.1	.60	82
22	34	560	440	152	293	730	233	1030	68	6.8	.60	65
23	28	440	360	152	293	600	233	880	53	6.8	.40	52
24	28	325	325	325	440	5230	233	560	43	6.0	.40	42
25	28	263	293	980	560	2900	205	440	35	5.2	.40	42
26	23	233	263	980	560	1610	177	360	29	5.2	.20	37
27	23	205	205	730	520	1130	177	293	24	4.9	.40	34
28	23	177	177	560	830	880	152	293	21	4.9	.40	31
29	23	152	177	480	---	680	152	325	18	4.4	3.2	30
30	23	152	177	400	---	600	187	263	14	4.7	22	29
31	28	---	177	360	---	520	---	233	---	4.9	24	---
TOTAL	4431	24944	19594	7961	13398	39650	13530	33929	4877	215.1	108.30	6602
MEAN	143	831	632	257	479	1279	451	1094	163	6.94	3.49	220
MAX	930	7090	1710	980	1740	5230	2350	4800	840	11	24	2870
MIN	23	152	177	82	152	520	152	233	14	4.4	.20	22
CFSM	.47	2.75	2.09	.85	1.59	4.24	1.49	3.62	.54	.02	.01	.73
IN.	.55	3.07	2.41	.98	1.65	4.88	1.67	4.18	.60	.03	.01	.81
AC-FT	8790	49480	38860	15790	26570	78650	26840	67300	9670	427	215	13100

CAL YR 1977 TOTAL 160720.20 MEAN 440 MAX 30600 MIN 1.4 CFSM 1.46 IN 19.80 AC-FT 318800
WTR YR 1978 TOTAL 169239.40 MEAN 464 MAX 7090 MIN .20 CFSM 1.54 IN 20.85 AC-FT 335700

07075300 SOUTH FORK LITTLE RED RIVER AT CLINTON, AR

LOCATION.--Lat 35°35'29", long 92°27'20", in SW¼ sec.14, T.11 N., R.14 W., Van Buren County, Hydrologic Unit 11010014, near right bank on upstream side of bridge on U.S. Highway 65 at Clinton, 0.2 mi (0.3 km) upstream from Archey Creek, and at mile 23.7 (38.1 km).

DRAINAGE AREA.--148 mi^2 (383 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD Ark. 1968: 1962, 1964. WRD Ark. 1973: Drainage area. WRD Ark. 1974: 1964 (M).

GAGE.--Water-stage recorder. Datum of gage is 481.11 ft (146.642 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1966, nonrecording gage at present site and datum.

REMARKS.--Gage-height record for Oct. 1 to Feb. 28 and four discharge measurements were furnished by Corps of Engineers.

AVERAGE DISCHARGE.--17 years, 234 ft^3/s (6.63 m^3/s), 21.47 in/yr (545 mm/yr), 169,500 acre-ft/yr (209 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,700 ft^3/s (926 m^3/s) Mar. 28, 1978, gage height, 26.43 ft (8.056 m); no flow at times.

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

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 2	2300	7,200	204	16.00	4.877	May	1700	5,340	151	14.65	4.465
Mar. 24	1200	5,540	157	14.80	4.511	Sept. 13	1600	*8,770	248	16.98	5.176

Minimum discharge, 0.10 ft^3/s (0.003 m^3/s) Aug. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	457	106	620	107	194	418	208	548	85	14	4.2	1.8
2	290	4000	490	97	174	544	180	511	79	12	3.9	1.4
3	204	3600	412	88	154	910	154	632	77	11	3.3	1.2
4	156	995	358	83	140	616	154	815	67	9.5	3.0	1.6
5	125	632	499	79	126	463	156	640	58	7.5	2.6	1.0
6	106	469	448	77	119	385	164	493	58	7.0	2.2	1.0
7	96	373	379	76	110	490	156	2530	58	7.0	1.8	.80
8	112	330	355	74	102	1100	140	2110	56	7.5	1.8	.70
9	110	353	353	70	96	900	132	960	47	8.0	1.4	.60
10	96	280	285	62	93	564	383	604	44	7.0	1.4	.40
11	82	230	258	58	89	450	1590	433	39	7.0	1.2	.50
12	68	180	242	62	89	350	760	388	37	7.5	2.2	1.0
13	59	150	295	61	537	280	514	310	35	8.0	3.0	2880
14	51	130	1150	59	517	750	385	235	29	9.0	3.3	744
15	47	110	748	55	388	1000	325	182	26	10	3.0	252
16	40	260	580	120	332	672	278	150	22	10	2.6	154
17	38	390	560	170	285	390	242	125	21	9.0	2.6	106
18	35	330	445	180	258	320	250	109	21	8.5	2.0	79
19	32	290	368	150	218	300	222	109	20	8.0	1.8	59
20	28	240	305	130	204	300	192	199	19	7.0	1.2	47
21	26	450	268	120	196	420	172	688	157	6.7	1.3	36
22	25	330	230	110	174	370	162	568	99	5.5	1.1	31
23	24	260	206	134	164	322	200	499	59	5.1	.80	24
24	23	220	192	320	178	2910	206	320	45	4.5	.80	21
25	23	180	172	684	196	1390	188	230	36	4.8	.60	18
26	23	150	146	536	196	820	164	182	30	5.1	.60	17
27	23	140	132	406	182	588	144	148	24	6.0	.40	15
28	22	120	120	330	362	451	132	142	21	6.4	.20	14
29	21	110	112	280	---	360	128	140	18	6.0	3.0	12
30	21	210	118	245	---	295	142	116	16	5.4	10	12
31	21	---	118	214	---	242	---	97	---	4.8	3.9	---
TOTAL	2484	15618	10964	5237	5873	19370	8223	15213	1403	234.0	71.00	4533.00
MEAN	80.1	521	354	169	210	625	274	491	46.8	7.55	2.29	151
MAX	457	4000	1150	684	537	2910	1590	2530	157	14	10	2880
MIN	21	106	112	55	89	242	128	97	16	4.5	.20	.40
CFSM	.54	3.52	2.39	1.14	1.42	4.22	1.85	3.32	.32	.05	.02	1.02
IN.	.62	3.93	2.76	1.32	1.48	4.87	2.07	3.82	.35	.06	.02	1.14
AC-FT	4930	30980	21750	10390	11650	38420	16310	30170	2780	464	141	8990

CAL YR 1977	TOTAL	99467.10	MEAN 273	MAX 18700	MIN 2.1	CFSM 1.85	IN 25.00	AC-FT 197300			
WTR YR 1978	TOTAL	89223.00	MEAN 244	MAX 4000	MIN .20	CFSM 1.65	IN 22.43	AC-FT 177000			

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

LOCATION.--Lat 35°33'48", long 92°11'48", in NE¼ sec.30, T.11 N., R.11 W., Cleburne County, Hydrologic Unit 11010014, at the Narrows bridge on State Highway 16 and 92, 0.8 mi (1.3 km) southeast of Higden.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT											
17...	9827	9827	--	--	46	6.9	19.0	0	--	--	8.2
NOV											
14...	9827	9827	--	--	47	--	15.0	5	--	--	8.1
DEC											
12...	9827	9827	--	--	49	--	10.0	10	--	--	8.9
JAN											
24...	9827	9827	--	--	43	6.7	5.0	5	--	--	11.6
FEB											
13...	9827	9827	--	--	46	6.8	4.0	5	--	--	12.4
MAR											
13...	1026	1026	.0	140		--	--	--	--	64	--
13...	1026	1026	25	140		42	6.8	4.0	7	4.0	-- 12.4
13...	1026	1026	110	140		50	7.1	3.5	7	5.1	-- 12.4
13...	9827	9827	--	--		--	--	--	--	--	-- --
13...	9827	9827	--	--		45	7.0	5.0	5	--	-- 12.5
APR											
10...	9827	9827	--	--		44	7.0	17.0	5	--	-- 10.2
MAY											
08...	9827	9827	--	--		44	6.9	19.0	5	--	-- 9.6
JUN											
05...	9827	9827	--	--		43	7.1	20.0	5	--	-- 8.7
27...	1026	1026	.0	138		--	--	--	--	--	-- --
27...	1026	1026	25	138		46	6.3	16.5	4	1.6	-- 5.9
27...	1026	1026	110	138		46	6.7	7.5	6	3.0	-- 7.3
JUL											
10...	9827	9827	--	--		46	6.5	31.0	5	--	-- 7.8
AUG											
07...	9827	9827	--	--		42	7.3	29.0	0	--	-- 8.4
SEP											
05...	9827	9827	--	--		--	--	--	--	--	-- --

DATE	OXYGEN, DISSOLVED, PERCENT SATURATION (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, INMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)
OCT											
17...	87	.8	4	<4	--	20	--	6.0	--	--	1.2
NOV											
14...	79	.8	60	4	--	--	--	--	--	--	--
DEC											
12...	79	.5	700	24	--	--	--	--	--	--	--
JAN											
24...	91	.8	<10	<4	--	15	--	4.0	--	--	1.0
FEB											
13...	85	1.5	37	<4	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	<2	--	--	--	--	--	--
13...	98	.7	--	--	--	17	6	--	5.5	14	--
13...	96	1.0	--	--	--	23	5	--	7.5	19	--
13...	--	--	5	<4	--	--	--	--	--	--	--
13...	98	1.7	--	--	--	--	--	--	--	--	--
APR											
10...	105	.7	46	12	--	13	--	3.0	--	--	.9
MAY											
08...	102	.5	1000	<5	--	--	--	--	--	--	--
JUN											
05...	95	1.2	20	<5	--	--	--	--	--	--	--
27...	--	--	--	--	<2	--	--	--	--	--	--
27...	--	1.8	--	--	--	19	8	--	5.8	15	--
27...	--	1.7	--	--	--	22	11	--	6.7	17	--
JUL											
10...	104	.2	5	18	--	17	--	5.0	--	--	1.0
AUG											
07...	108	2.5	110	20	--	--	--	--	--	--	--
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)
OCT										
17...	--	1.6	1.0	--	--	13	--	9.0	4.0	34
NOV										
14...	--	--	--	--	--	--	--	--	4.0	44
DEC										
12...	--	--	--	--	--	--	--	5.0	3.5	44
JAN										
24...	--	1.4	.9	--	--	14	--	--	4.0	29
FEB										
13...	--	--	--	--	--	--	--	5.0	3.5	36
MAR										
13...	.9	--	.7	14	0	11	3.6	2.7	1.7	--
13...	1.1	--	.8	22	0	18	2.8	3.3	1.9	--
13...	--	--	--	--	--	--	--	12	4.0	43
APR										
10...	--	1.4	.9	--	--	14	--	3.0	3.5	30
MAY										
08...	--	--	--	--	--	--	--	5.0	4.5	--
JUN										
05...	--	--	--	--	--	--	--	4.0	3.5	--
27...	1.1	--	.7	13	0	11	10	3.6	1.7	--
27...	1.2	--	.7	13	0	11	4.2	3.6	1.8	--
JUL										
10...	--	1.7	.9	--	--	14	--	3.0	3.5	38
AUG										
07...	--	--	--	--	--	--	--	3.0	3.0	34
SEP										
05...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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-ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
OCT										
17...	5	.05	<.05	.05	.04	--	--	--	--	.02
NOV										
14...	5	.05	<.05	.05	.08	--	--	--	--	.01
DEC										
12...	5	.05	<.05	.06	.04	--	--	--	--	.02
JAN										
24...	5	.15	<.05	.15	<.05	--	--	--	--	.05
FEB										
13...	5	.15	<.01	.15	.14	--	--	--	--	.02
MAR										
13...	--	--	--	.15	.01	.03	.04	.19	.84	.01
13...	--	--	--	.15	.03	.02	.05	.20	.89	.02
13...	9	.16	.01	.17	--	--	--	--	--	.02
APR										
10...	7	.12	.01	.13	.06	--	--	--	--	.02
MAY										
08...	8	.10	.01	.11	.05	--	--	--	--	.04
JUN										
05...	6	--	<.01	.04	.02	--	--	--	--	.01
27...	--	--	--	.12	.01	.01	.02	.14	.62	.01
27...	--	--	--	.23	.03	.00	.00	.23	1.0	.01
JUL										
10...	3	.02	<.01	.02	.02	--	--	--	--	.08
AUG										
07...	13	--	<.01	.04	.04	--	--	--	--	.01
SEP										
05...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)
OCT										
17...	--	--	<5	<10	<5	<10	120	40	36	--
NOV										
14...	--	--	--	<10	--	<20	220	--	65	--
DEC										
12...	--	--	--	<10	--	<20	520	--	240	--
JAN										
24...	--	--	<5	<10	<5	<20	300	20	66	--
FEB										
13...	--	--	--	<10	--	<20	330	--	65	--
MAR										
13...	.00	120	0	--	10	4	160	7	30	.0
13...	.00	170	0	--	10	7	260	4	40	.0
13...	--	--	--	<10	--	40	420	--	120	--
APR										
10...	--	--	<5	<10	6	50	610	30	91	--
MAY										
08...	--	--	--	<10	--	30	170	--	53	--
JUN										
05...	--	--	--	<10	--	20	270	--	27	--
27...	.00	60	0	--	0	2	150	10	5	.0
27...	.01	90	0	--	0	4	310	7	80	.0
JUL										
10...	--	--	<5	<10	<5	<20	70	20	25	<1.0
AUG										
07...	--	--	--	<10	--	<20	180	--	42	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	40	.00	.00	.00	.00	.00	.00	.00	0
NOV										
14...	--	30	--	--	--	--	--	--	--	--
DEC										
12...	--	30	--	--	--	--	--	--	--	--
JAN										
24...	--	20	--	--	--	--	--	--	--	--
FEB										
13...	--	20	.00	.00	--	.00	.00	.00	.00	0
MAR										
13...	5	10	--	--	--	--	--	--	--	--
13...	5	10	--	--	--	--	--	--	--	--
13...	--	10	--	--	--	--	--	--	--	--
APR										
10...	--	30	--	--	--	--	--	--	--	--
MAY										
08...	--	10	--	--	--	--	--	--	--	--
JUN										
05...	--	20	.00	.00	.00	.00	.00	.00	.00	0
27...	3	10	--	--	--	--	--	--	--	--
27...	3	30	--	--	--	--	--	--	--	--
JUL										
10...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
07...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
05...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR

LOCATION.--Lat 35°31'15", long 91°59'42", in SE¼ sec.6, T.10 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, on State Highway 25 at Greers Ferry Dam on Little Red River, 2.5 mi (4.0 km) northeast of Heber Springs, 5.5 mi (8.8 km) upstream from Canoe Creek, and at mile 79.0 (127.1 km).
DRAINAGE AREA.--1,153 mi² (2,986 km²).
PERIOD OF RECORD.--October 1970 to September 1972, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
11...	1028	1028	.0	25	21.5	180	8.8
11...	1028	1028	10	25	22.0	--	8.8
11...	1028	1028	20	25	22.0	--	8.7
11...	1028	1028	30	26	22.0	--	8.7
11...	1028	1028	35	26	22.0	--	8.7
11...	1028	1028	40	26	17.5	--	7.0
11...	1028	1028	45	26	15.5	--	6.9
11...	1028	1028	50	26	13.5	--	6.5
11...	1028	1028	55	26	12.5	--	6.5
11...	1028	1028	60	26	12.0	--	6.6
11...	1028	1028	70	27	11.5	--	6.8
11...	1028	1028	80	27	10.5	--	7.1
11...	1028	1028	90	27	10.0	--	7.4
11...	1028	1028	100	27	9.5	--	7.5
11...	1028	1028	110	28	9.0	--	7.6
11...	1028	1028	120	28	8.5	--	6.0
11...	1028	1028	130	29	8.0	--	4.8
11...	1028	1028	140	29	8.0	--	4.4
11...	1028	1028	150	29	8.0	--	4.1

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV								
08...	1028	1028	.0	27	7.3	18.5	210	8.6
08...	1028	1028	10	27	--	18.5	--	8.5
08...	1028	1028	20	27	--	18.5	--	8.3
08...	1028	1028	30	27	7.3	18.5	--	8.3
08...	1028	1028	40	27	--	18.5	--	8.3
08...	1028	1028	50	27	7.0	18.5	--	8.1
08...	1028	1028	55	28	--	16.5	--	4.9
08...	1028	1028	60	28	--	15.0	--	4.3
08...	1028	1028	65	28	6.7	13.5	--	4.4
08...	1028	1028	70	28	--	13.0	--	4.5
08...	1028	1028	80	28	--	12.0	--	4.8
08...	1028	1028	90	28	6.7	11.5	--	5.2
08...	1028	1028	100	28	--	11.0	--	5.6
08...	1028	1028	110	29	--	10.7	--	5.7
08...	1028	1028	120	29	6.5	9.5	--	5.7
08...	1028	1028	130	31	--	8.5	--	5.8
08...	1028	1028	140	32	--	8.5	--	2.4
08...	1028	1028	150	32	6.2	8.0	--	1.6

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC							
06...	1028	1028	.0	23	7.1	12.0	8.6
06...	1028	1028	10	23	7.1	13.0	8.6
06...	1028	1028	20	23	7.0	13.0	8.6
06...	1028	1028	30	23	7.0	13.0	8.7
06...	1028	1028	40	23	6.9	13.0	8.8
06...	1028	1028	50	23	6.9	13.0	8.8
06...	1028	1028	60	23	7.0	13.0	8.8
06...	1028	1028	70	23	7.1	13.0	8.8
06...	1028	1028	80	23	7.1	13.0	8.8
06...	1028	1028	90	23	7.2	13.0	8.8
06...	1028	1028	100	23	7.2	13.0	8.8
06...	1028	1028	105	23	7.3	12.5	8.2
06...	1028	1028	110	25	7.2	12.5	4.8
06...	1028	1028	120	26	7.2	11.0	4.4
06...	1028	1028	130	26	7.2	10.5	3.3
06...	1028	1028	140	29	7.3	10.0	.6
06...	1028	1028	150	30	7.3	9.5	.0
06...	1028	1028	152	31	7.3	9.5	.0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JAN								
03...	1028	1028	.0	26	6.8	8.5	114	10.4
03...	1028	1028	10	25	7.0	8.5	--	10.2
03...	1028	1028	20	25	7.0	9.0	--	9.8
03...	1028	1028	30	26	6.8	9.0	--	10.0
03...	1028	1028	40	26	6.8	9.0	--	9.8
03...	1028	1028	50	26	6.8	9.0	--	9.6
03...	1028	1028	60	26	6.8	9.0	--	9.4
03...	1028	1028	70	26	6.8	9.0	--	9.7
03...	1028	1028	80	26	6.8	9.0	--	9.6
03...	1028	1028	90	26	6.8	9.0	--	9.6
03...	1028	1028	100	26	6.8	9.0	--	9.7
03...	1028	1028	110	26	6.8	9.0	--	9.6
03...	1028	1028	120	26	6.7	9.0	--	9.6
03...	1028	1028	130	26	6.8	9.0	--	9.5
03...	1028	1028	140	26	6.8	9.0	--	9.5
03...	1028	1028	148	26	6.8	9.0	--	9.5

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
13...	1028	1028	.0	144	36	7.1	4.5	--	--	134	13.2
13...	1028	1028	10	--	36	7.1	4.5	--	--	--	14.0
13...	1028	1028	20	--	36	7.0	4.5	--	--	--	14.0
13...	1028	1028	25	144	36	7.0	4.5	3	1.5	--	14.0
13...	1028	1028	30	--	36	7.0	4.5	--	--	--	14.0
13...	1028	1028	40	--	36	6.9	4.5	--	--	--	14.0
13...	1028	1028	50	--	36	6.9	4.5	--	--	--	14.0
13...	1028	1028	60	--	36	6.9	4.0	--	--	--	14.0
13...	1028	1028	70	--	36	6.9	4.0	--	--	--	14.0
13...	1028	1028	80	--	36	6.9	4.0	--	--	--	14.0
13...	1028	1028	90	--	36	6.9	4.0	--	--	--	13.8
13...	1028	1028	100	144	36	6.8	4.0	1	1.5	--	13.8
13...	1028	1028	110	--	36	6.6	4.0	--	--	--	13.8
13...	1028	1028	120	--	36	6.6	4.0	--	--	--	13.8
13...	1028	1028	130	--	36	6.6	4.0	--	--	--	13.8
13...	1028	1028	140	--	36	6.5	4.0	--	--	--	13.8
13...	1028	1028	144	--	36	6.3	4.0	--	--	--	13.8

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
MAR											
13...	--	0	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	.7	--	17	4	4.8	12	1.1	.7	15	0	12
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	.5	--	15	5	4.5	11	.9	.7	12	0	10
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	2.4	2.7	1.5	.11	.01	.19	.20	.31	1.4	.00	.00
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	3.0	2.6	2.9	.11	.01	.06	.07	.18	.80	.00	.00
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)
MAR										
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	130	1	20	6	70	4	10	.0	6	10
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	50	0	10	5	50	6	20	.0	5	10
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
APR								
10...	1028	1028	.0	38	8.1	17.5	108	10.6
10...	1028	1028	5.0	38	8.5	16.5	--	10.6
10...	1028	1028	10	38	8.4	15.0	--	11.8
10...	1028	1028	15	38	8.4	12.5	--	12.3
10...	1028	1028	20	38	8.3	11.5	--	12.3
10...	1028	1028	25	38	8.2	10.5	--	12.3
10...	1028	1028	30	38	8.2	9.5	--	12.2
10...	1028	1028	35	38	7.9	7.5	--	12.2
10...	1028	1028	40	38	7.9	7.0	--	12.1
10...	1028	1028	50	38	8.0	6.5	--	12.1
10...	1028	1028	60	38	8.0	6.0	--	12.1
10...	1028	1028	70	38	8.0	5.5	--	12.1
10...	1028	1028	80	38	8.0	5.5	--	12.1
10...	1028	1028	90	38	8.1	5.5	--	12.1
10...	1028	1028	100	38	8.1	5.0	--	12.0
10...	1028	1028	110	38	8.1	5.0	--	11.9
10...	1028	1028	120	38	8.1	4.5	--	11.8
10...	1028	1028	130	38	8.0	4.5	--	11.8
10...	1028	1028	140	40	8.0	4.5	--	11.8
10...	1028	1028	145	38	8.0	4.5	--	11.8

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
MAY								
08...	1028	1028	.0	36	7.4	18.0	96	10.0
08...	1028	1028	10	38	7.5	15.0	--	10.2
08...	1028	1028	15	38	7.5	13.5	--	10.4
08...	1028	1028	20	38	7.5	13.0	--	10.4
08...	1028	1028	30	38	7.4	13.5	--	10.4
08...	1028	1028	40	38	7.3	13.0	--	10.4
08...	1028	1028	45	38	7.2	10.5	--	10.4
08...	1028	1028	50	38	7.1	10.5	--	10.4
08...	1028	1028	60	40	7.1	9.5	--	10.4
08...	1028	1028	70	40	7.0	8.5	--	10.6
08...	1028	1028	80	40	7.0	8.0	--	10.6
08...	1028	1028	90	40	7.0	7.0	--	11.0
08...	1028	1028	100	40	7.0	6.0	--	11.2
08...	1028	1028	110	40	7.0	6.0	--	11.2
08...	1028	1028	120	40	7.0	5.0	--	11.2
08...	1028	1028	130	40	7.0	5.0	--	11.2
08...	1028	1028	140	40	7.0	5.0	--	11.2
08...	1028	1028	149	40	7.0	5.0	--	11.2

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUN											
27...	1028	1028	.0	147	42	7.2	29.5	--	--	156	7.8
27...	1028	1028	10	--	42	7.4	29.0	--	--	--	7.9
27...	1028	1028	15	--	42	7.5	26.0	--	--	--	8.6
27...	1028	1028	20	--	42	7.3	23.5	--	--	--	10.2
27...	1028	1028	25	147	42	7.5	19.0	1	.50	--	10.1
27...	1028	1028	30	--	42	7.6	16.0	--	--	--	8.7
27...	1028	1028	35	--	42	7.5	--	--	--	--	--
27...	1028	1028	40	--	42	7.5	14.5	--	--	--	8.1
27...	1028	1028	45	--	42	7.5	14.0	--	--	--	8.2
27...	1028	1028	50	--	42	7.5	13.0	--	--	--	8.3
27...	1028	1028	55	--	44	7.5	12.0	--	--	--	8.4
27...	1028	1028	60	--	44	7.5	11.0	--	--	--	8.5
27...	1028	1028	65	--	44	7.7	10.5	--	--	--	8.6
27...	1028	1028	70	--	44	7.7	9.0	--	--	--	9.4
27...	1028	1028	80	--	44	7.7	7.5	--	--	--	9.8
27...	1028	1028	90	--	42	7.6	7.0	--	--	--	10.0
27...	1028	1028	100	147	42	7.6	7.0	2	.80	--	10.0
27...	1028	1028	110	--	42	7.6	6.5	--	--	--	9.9
27...	1028	1028	120	--	42	7.6	6.0	--	--	--	9.8
27...	1028	1028	130	--	42	7.6	6.0	--	--	--	9.6
27...	1028	1028	140	--	42	7.6	6.0	--	--	--	9.1
27...	1028	1028	147	--	42	7.6	5.5	--	--	--	9.2

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
JUN											
27...	--	0	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	2.5	--	16	6	4.5	11	1.2	.7	13	11	.7
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	1.8	--	22	12	6.9	17	1.2	.8	13	11	.5
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, TOTAL (MG/L AS NO3) (71887)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P) (70507)
JUN										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	4.8	1.8	.12	.01	.67	.68	.80	3.5	.01	.00
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	3.6	1.9	.17	.01	.02	.03	.20	.89	.00	.00
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--

DATE	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)
JUN										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	20	1	0	3	170	3	5	.0	3	10
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	30	0	10	3	110	4	0	.0	4	10
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
JUL								
17...	1028	1028	.0	40	7.4	29.5	120	7.5
17...	1028	1028	10	40	7.6	29.0	--	7.3
17...	1028	1028	15	40	7.6	27.0	--	7.4
17...	1028	1028	20	40	8.5	26.0	--	9.8
17...	1028	1028	25	40	8.1	21.0	--	10.0
17...	1028	1028	30	40	7.2	18.0	--	8.7
17...	1028	1028	35	40	6.8	16.5	--	7.8
17...	1028	1028	40	42	6.7	15.5	--	7.5
17...	1028	1028	45	40	6.6	14.5	--	7.2
17...	1028	1028	50	42	6.5	13.0	--	7.0
17...	1028	1028	55	42	6.5	12.0	--	7.1
17...	1028	1028	60	42	6.5	11.5	--	7.4
17...	1028	1028	65	42	6.5	10.0	--	8.1
17...	1028	1028	70	42	6.5	9.5	--	8.2
17...	1028	1028	80	42	6.4	8.5	--	8.7
17...	1028	1028	90	42	6.4	7.5	--	9.0
17...	1028	1028	100	42	6.4	7.0	--	9.1
17...	1028	1028	110	42	6.4	6.5	--	9.1
17...	1028	1028	120	42	6.4	6.5	--	9.0
17...	1028	1028	130	42	6.3	6.0	--	8.8
17...	1028	1028	140	42	6.3	6.0	--	8.7
17...	1028	1028	142	42	6.3	6.0	--	8.6
AUG								
14...	1028	1028	.0	36	6.6	28.5	144	7.2
14...	1028	1028	5.0	36	6.8	28.0	--	7.4
14...	1028	1028	10	36	6.8	28.0	--	7.4
14...	1028	1028	20	38	6.7	27.0	--	7.6
14...	1028	1028	22	38	6.6	25.0	--	9.0
14...	1028	1028	24	38	6.4	24.0	--	9.2
14...	1028	1028	25	38	6.5	23.0	--	9.2
14...	1028	1028	27	38	6.4	22.5	--	9.3
14...	1028	1028	28	38	6.4	21.0	--	9.3
14...	1028	1028	29	38	6.3	20.0	--	9.2
14...	1028	1028	30	38	6.2	19.0	--	9.0
14...	1028	1028	31	38	6.0	18.0	--	8.6
14...	1028	1028	33	38	5.9	17.0	--	8.1
14...	1028	1028	35	38	5.8	16.5	--	7.7
14...	1028	1028	40	40	5.7	15.5	--	7.2
14...	1028	1028	45	40	5.6	14.5	--	6.7
14...	1028	1028	50	40	5.6	13.5	--	6.4
14...	1028	1028	55	40	5.5	12.5	--	6.2
14...	1028	1028	60	40	5.6	11.5	--	6.4
14...	1028	1028	70	42	5.6	10.0	--	7.1
14...	1028	1028	80	44	5.6	8.5	--	7.8
14...	1028	1028	90	44	5.6	7.5	--	8.0
14...	1028	1028	100	46	5.6	7.0	--	8.3
14...	1028	1028	110	46	5.6	6.5	--	8.2
14...	1028	1028	120	46	5.6	6.0	--	8.0
14...	1028	1028	130	46	5.5	6.0	--	7.9
14...	1028	1028	140	48	5.5	6.0	--	7.6

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, AR

LOCATION.--Lat 35°31'02", long 91°59'50", in NE¼ sec.7, T.10 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, on right bank 1,600 ft (488 m) downstream from Greers Ferry Dam, 3.0 mi (4.8 km) northeast of Heber Springs, and at mile 78.8 (126.8 km).

DRAINAGE AREA.--1,153 mi^2 (2,986 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1927 to current year. Monthly discharge only for some periods, published in WSP 1311.

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

GAGE.--Water-stage recorder. Datum of gage is 261.78 ft (79.791 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 15, 1938, nonrecording gage at site 2.2 mi (3.5 km) upstream at datum 8.97 ft (2.734 m) higher and Dec. 15, 1938, to Sept. 30, 1960, water-stage recorder at site 1.8 mi (2.9 km) upstream at datum 10.03 ft (3.057 m) higher.

REMARKS.--Records good. Flow completely regulated since Mar. 30, 1962, by Greers Ferry Lake (see station 07075900). Some regulation Oct. 1, 1960, to Feb. 28, 1962, by construction of Greers Ferry Dam. A fish hatchery diverts about 20 ft^3/s (0.57 m^3/s) from Greers Ferry Lake and returns an equal amount below the station.

COOPERATION.--Gage-height record for Oct. 1 to Feb. 28 and four discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--51 years, 1,750 ft^3/s (49.6 m^3/s), 1,268,000 acre-ft/yr (1,560 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft^3/s (3,310 m^3/s) Jan. 25, 1949, gage height, 46.53 ft (14.182 m) in gage well and 46.9 ft (14.30 m) from outside gage, site and datum then in use; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1927, that of Jan. 25, 1949, Flood in April 1927 reached a stage of 44.0 ft (13.41 m), original site and datum, discharge, 78,900 ft^3/s (2,230 m^3/s).

EXTREMES FOR 1977 WATER YEAR.--Maximum discharge, 8,760 ft^3/s (248 m^3/s) Oct. 20, gage height, 16.55 ft (5.044 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Jan. 16.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,450 ft^3/s (239 m^3/s) Jan. 16, gage height, 16.33 ft (4.977 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Apr. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4370	693	2510	53	481	52	55	1420	1160	72	270	2090
2	2640	1380	1760	54	55	51	506	5210	1790	250	376	2030
3	1700	241	1500	221	52	68	60	5530	1480	219	812	312
4	3940	55	60	129	70	726	1290	5310	2110	345	376	293
5	2390	3500	51	225	51	51	1300	4740	242	2610	305	310
6	572	77	1000	1280	51	61	1330	4730	1980	2080	349	960
7	1180	48	743	159	52	53	3140	1130	190	1910	564	1880
8	568	4410	52	55	53	50	3160	1120	263	275	952	1680
9	45	4200	852	54	53	193	3030	3200	490	282	550	306
10	430	2510	687	1590	68	51	93	1260	2550	210	948	258
11	3660	4080	52	2770	52	55	35	48	353	248	430	398
12	3410	4160	51	3050	51	54	2210	157	364	992	330	202
13	4070	75	925	2180	51	53	756	52	1050	2120	278	247
14	3590	51	458	439	51	51	2690	295	731	2260	292	197
15	875	4140	768	26	50	47	3300	188	326	2440	228	205
16	50	4160	389	22	65	190	1130	3010	261	325	240	197
17	288	3990	310	4140	51	50	1960	1030	283	292	258	239
18	3940	546	53	4550	50	46	5110	2290	251	2730	451	450
19	3120	58	50	2600	50	47	4560	3170	230	2920	318	48
20	4540	48	51	38	50	47	4650	93	317	1940	260	450
21	2510	48	671	51	50	47	5240	44	222	641	208	349
22	4070	1590	65	73	189	48	5060	45	192	238	2610	857
23	2090	3120	218	73	50	188	4090	1160	190	282	1640	1150
24	68	1540	54	219	50	52	3520	2520	307	265	1770	254
25	526	65	51	79	50	48	5120	1790	217	288	1400	297
26	58	50	51	75	50	47	5350	1640	35	367	2260	3700
27	384	48	52	62	50	86	1580	171	553	245	322	2470
28	57	50	261	127	193	1360	4960	197	923	248	198	581
29	1240	2330	534	65	---	1280	4600	255	268	315	1970	602
30	58	1970	60	54	---	1260	1580	155	237	232	2840	1370
31	50	---	52	337	---	638	---	301	---	290	2260	---
TOTAL	56489	49233	14391	24850	2189	7050	81465	52261	19565	27931	26065	24382
MEAN	1822	1641	464	802	78.2	227	2716	1686	652	901	841	813
MAX	4540	4410	2510	4550	481	1360	5350	5530	2550	2920	2840	3700
MIN	45	48	50	22	50	46	35	44	35	72	198	48
AC-FT	112000	97650	28540	49290	4340	13980	161600	103700	38810	55400	51700	48360

CAL YR 1976 TOTAL 474033 MEAN 1295 MAX 4750 MIN 27 AC-FT 940200
WTR YR 1977 TOTAL 385871 MEAN 1057 MAX 5530 MIN 22 AC-FT 765400

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	685	422	2260	4060	317	42	5380	3580	742	850	210
2	182	798	1460	4650	4540	57	41	6550	3090	237	237	352
3	245	2070	59	4250	3000	2000	2490	3100	165	350	592	405
4	547	2560	49	4340	1910	3080	180	3300	149	550	207	375
5	375	67	4330	3090	2010	550	392	3110	2100	2560	165	822
6	218	40	5320	1670	3370	2090	1980	3380	1420	2850	205	1200
7	210	4450	6010	58	2420	2750	2400	4410	1820	2860	153	2310
8	40	3660	5640	48	2600	3380	673	5080	577	362	235	260
9	41	4690	6140	1400	3320	2570	774	1920	774	285	649	235
10	170	3820	4200	2080	2190	3420	1400	2840	410	300	160	245
11	170	3010	4430	4420	70	2820	2470	3170	487	310	950	397
12	1210	930	4470	4390	51	265	49	3220	3100	2280	425	175
13	583	58	4870	4780	113	4760	613	3020	1620	2660	727	192
14	44	1340	4290	574	167	4330	1420	3250	210	1540	724	405
15	41	1700	3080	786	420	4570	60	3000	607	894	430	818
16	42	2450	1030	5440	802	4040	40	2820	790	1360	598	544
17	44	4130	463	5440	2520	3170	3710	3180	842	2260	1280	565
18	1110	3540	802	5210	66	1780	3220	3060	365	3050	2330	2810
19	3740	724	4130	4730	51	1550	4120	3000	520	3840	436	2950
20	5040	46	4250	4480	51	4440	3080	3400	200	4000	260	212
21	4900	3810	3590	2010	454	3150	628	3300	1120	3810	457	350
22	2650	846	4110	2260	62	4050	45	3800	330	2070	1130	270
23	709	654	4260	4870	57	5340	42	4570	487	715	2030	210
24	4360	58	2940	4110	51	3190	44	6170	297	277	3710	320
25	4610	922	814	3740	50	2060	53	6230	422	365	3140	400
26	571	1150	3310	2010	50	2940	556	5960	1110	2240	583	292
27	2540	58	4560	2210	57	4560	950	3340	2470	526	302	290
28	1180	2200	3860	4230	53	2780	1890	3090	2590	1290	838	604
29	40	926	2620	3680	---	2630	65	3140	2710	2570	230	433
30	40	2610	502	2410	---	1390	45	3640	2700	1540	180	222
31	1800	---	50	1090	---	56	---	4000	---	2860	417	---
TOTAL	37694	54006	96101	96716	34565	84085	33472	117430	37062	51553	24630	18873
MEAN	1216	1800	3100	3120	1234	2712	1116	3788	1235	1663	795	629
MAX	5040	4690	6140	5440	4540	5340	4120	6550	3580	4000	3710	2950
MIN	40	40	49	48	50	56	40	1920	149	237	153	175
AC-FT	74770	107100	190600	191800	68560	166800	66390	232900	73510	102300	48850	37430

CAL YR 1977 TOTAL 453559 MEAN 1243 MAX 6140 MIN 22 AC-FT 899600
WTR YR 1978 TOTAL 686187 MEAN 1880 MAX 6550 MIN 40 AC-FT 1361000

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

PERIOD OF RECORD.--November 1949 to September 1952, water years 1955-71, December 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1949 to September 1952, water years 1968-71.

REMARKS.--Flow regulated by Greers Ferry Lake.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
OCT										
11...	1028	1028	31	--	10.0	--	--	10.8	--	--
NOV										
08...	1028	1028	31	7.4	11.0	--	--	7.0	--	--
DEC										
06...	1028	1028	26	6.8	11.0	--	--	4.8	--	--
JAN										
03...	1028	1028	26	7.1	8.5	--	--	10.5	--	--
MAR										
13...	1028	1028	36	6.4	4.0	3	1.5	13.8	.5	0
APR										
10...	1028	1028	40	8.2	7.0	--	--	11.8	--	--
MAY										
08...	1028	1028	38	7.6	6.0	--	--	10.4	--	--
JUN										
27...	1028	1028	34	7.5	7.5	1	2.6	8.7	2.0	K25
JUL										
17...	1028	1028	42	6.4	8.0	--	--	8.5	--	--
AUG										
14...	1028	1028	42	6.4	9.0	--	--	8.6	--	--

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	16	4	4.6	12	1.1	.8	15	0	12	9.6
APR										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	20	7	5.9	15	1.2	.8	15	0	12	.8
JUL										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	2.7	1.5	.54	.01	.03	.04	.58	2.6	.00	.00
APR										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	3.4	1.8	.18	.00	.00	.00	.18	.80	.01	.00
JUL										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--

DATE	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)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	70	1	0	7	50	7	20	.0	7	10
APR										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	30	0	0	3	130	4	10	.0	4	40
JUL										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--

07076200 LITTLE RED RIVER NEAR WILBURN, AR

LOCATION.--Lat 35°29'33", long 91°58'21", in SW¼SW¼ sec.16, T.10 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, temperature recorder just upstream from bridge on State Highway 110, 4.0 mi (6.4 km) southwest of Wilburn.

DRAINAGE AREA.--1,196 mi² (3,098 km²).

PERIOD OF RECORD.--April 1968 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1968 to current year.

INSTRUMENTATION.--Temperature recorder since April 1968.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Water-quality records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Temperature records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 21.0°C June 25, 1977; minimum, -0.5°C Dec. 26, 1975, Jan. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 18.5°C Oct. 21, 22; minimum 3.5°C Feb. 11, 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	48	7.1	14.0	0	10.9	105	.4	8	21
NOV											
14...	9827	9827	51	--	10.0	0	6.9	61	2.8	220	--
DEC											
12...	9827	9827	45	--	10.0	0	7.8	69	.5	15	--
JAN											
24...	9827	9827	41	6.7	6.0	5	11.5	92	1.1	49	13
FEB											
13...	9827	9827	46	6.5	5.0	30	12.0	94	3.4	130	--
MAR											
13...	9827	9827	42	6.9	5.0	0	12.1	95	1.9	45	--
APR											
10...	9827	9827	47	6.9	9.0	5	11.8	102	1.1	12	13
MAY											
08...	9827	9827	42	6.7	11.0	5	11.3	102	1.4	100	--
JUN											
05...	9827	9827	47	7.0	11.0	5	12.0	108	1.7	100	--
JUL											
10...	9827	9827	47	7.0	18.0	10	11.3	119	1.3	70	17
AUG											
07...	9827	9827	44	7.2	19.0	0	11.2	119	2.0	<5	--
SEP											
05...	9827	9827	50	6.9	16.0	5	9.6	96	1.2	50	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	6.0	1.4	1.8	1.0	15	6.0	4.0	39	4	.12
NOV										
14...	--	--	--	--	--	--	5.0	47	6	.21
DEC										
12...	--	--	--	--	--	6.0	4.0	35	4	.11
JAN										
24...	3.0	1.0	1.6	.9	12	--	3.0	26	13	.12
FEB										
13...	--	--	--	--	--	7.0	3.5	44	27	.22
MAR										
13...	--	--	--	--	--	3.0	3.5	26	8	.12
APR										
10...	3.0	1.0	1.6	1.0	14	3.0	4.0	33	4	.13
MAY										
08...	--	--	--	--	--	9.0	4.0	--	5	.12
JUN										
05...	--	--	--	--	--	3.0	3.5	--	10	.13
JUL										
10...	5.0	--	1.8	1.0	17	4.0	3.5	47	1	.12
AUG										
07...	--	--	--	--	--	4.0	3.0	42	<1	.10
SEP										
05...	--	--	--	--	--	--	3.5	--	5	.18

07076200 LITTLE RED RIVER NEAR WILBURN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
17...	<.05	.12	<.05	.02	<10	<5	<10	280	20	90
NOV										
14...	<.05	.21	.06	.02	<10	--	<20	310	--	360
DEC										
12...	<.05	.12	<.05	.03	<10	--	<20	310	--	380
JAN										
24...	<.05	.13	.07	.07	<10	<5	<20	410	20	140
FEB										
13...	.01	.23	.82	.09	<10	--	<20	1500	--	180
MAR										
13...	.01	.13	--	.03	<10	--	20	310	--	99
APR										
10...	.01	.14	.06	.02	<10	5	60	500	30	7
MAY										
08...	.05	.17	.19	.04	<10	--	20	50	--	53
JUN										
05...	.00	.13	.03	.01	<10	--	<20	370	--	83
JUL										
10...	.01	.13	.05	.07	10	<5	<20	260	<10	88
AUG										
07...	.01	.11	.05	.01	<10	--	<20	180	--	100
SEP										
05...	.01	.19	.09	.04	<10	--	<20	250	--	100

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	30	.00	.00	.00	.00	.00	.00	.00	0
NOV										
14...	--	20	--	--	--	--	--	--	--	--
DEC										
12...	--	30	--	--	--	--	--	--	--	--
JAN										
24...	--	40	--	--	--	--	--	--	--	--
FEB										
13...	--	30	.00	.00	.00	.00	.00	.00	.00	0
MAR										
13...	--	20	--	--	--	--	--	--	--	--
APR										
10...	--	40	--	--	--	--	--	--	--	--
MAY										
08...	--	<10	--	--	--	--	--	--	--	--
JUN										
05...	--	20	.00	.00	.00	.00	.00	.00	.00	0
JUL										
10...	1.4	<10	--	--	--	--	--	--	--	--
AUG										
07...	--	10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
05...	--	10	.00	.00	.00	.00	.00	.00	.00	0

07076200 LITTLE RED RIVER NEAR WILBURN, AR--CONTINUED

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

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.0	9.5	---	---	9.5	8.5	13.5	9.0	12.0	9.0	---	---
2	13.5	12.0	---	---	---	---	---	---	13.5	11.0	---	---
3	13.0	6.0	---	---	---	---	15.5	13.5	12.0	11.0	---	---
4	10.0	6.5	---	---	14.0	10.5	15.5	11.5	15.0	11.5	---	---
5	13.0	9.5	13.5	8.5	14.0	9.0	12.0	8.0	---	---	14.5	11.5
6	14.5	10.0	10.0	8.0	11.5	8.0	10.5	8.0	---	---	12.0	10.5
7	10.0	7.0	11.0	9.0	---	---	11.5	8.5	17.0	15.0	12.0	10.5
8	9.5	6.0	13.0	6.0	14.0	9.5	13.0	9.5	17.0	16.0	14.5	13.0
9	10.5	7.0	6.0	5.5	13.0	9.5	---	---	16.5	11.5	13.0	12.0
10	10.0	6.5	6.5	6.0	14.5	10.0	15.0	14.0	14.5	14.0	13.0	12.0
11	7.0	5.0	12.0	6.5	11.5	7.0	---	---	---	---	12.0	11.5
12	9.0	6.0	10.0	8.0	10.5	7.0	---	---	---	---	10.5	8.5
13	12.0	9.0	---	---	12.0	8.0	---	---	---	---	---	---
14	12.0	8.0	8.5	7.0	15.0	11.5	---	---	---	---	---	---
15	10.5	6.0	9.0	7.0	---	---	---	---	13.0	10.0	---	---
16	10.5	9.0	10.0	7.0	---	---	---	---	14.5	11.5	---	---
17	11.0	6.0	9.0	7.0	14.5	10.0	12.0	9.5	13.5	10.5	---	---
18	8.5	6.0	8.5	7.0	11.0	9.5	---	---	11.5	9.0	---	---
19	7.0	6.5	8.5	7.0	13.5	9.5	10.0	8.5	11.0	9.0	---	---
20	8.0	6.5	9.5	7.0	11.5	10.0	9.0	8.0	13.5	10.5	---	---
21	13.5	6.5	9.5	8.0	14.0	11.5	10.0	8.5	14.5	11.5	---	---
22	13.5	13.5	9.5	8.0	13.0	8.5	12.0	8.5	13.5	9.0	---	---
23	15.0	13.5	10.0	8.0	15.0	11.0	12.0	10.0	11.0	8.5	---	---
24	15.0	14.0	9.0	8.0	13.5	11.5	15.0	11.0	10.0	8.5	---	---
25	15.5	10.0	9.5	7.0	15.0	10.5	15.0	9.0	11.0	8.5	---	---
26	---	---	9.5	8.5	15.5	9.0	12.0	9.0	11.5	10.0	---	---
27	---	---	9.5	8.5	11.5	8.0	14.0	11.0	13.0	11.0	---	---
28	---	---	9.0	7.0	11.0	8.0	13.0	8.5	11.0	9.5	---	---
29	---	---	9.5	7.0	11.5	8.5	14.0	10.0	15.5	10.5	---	---
30	---	---	9.0	7.0	11.5	8.5	12.0	9.0	---	---	---	---
31	---	---	9.5	7.0	---	---	11.5	8.5	---	---	---	---
MONTH	15.5	5.0	13.5	5.5	15.5	7.0	15.5	8.0	17.0	8.5	14.5	8.5

07076500 LITTLE RED RIVER AT PANGBURN, AR

LOCATION.--Lat 35°26'30", long 91°50'09", in NE¼ sec.3, T.9 N., R.8 W., White County, Hydrologic Unit 11010014, temperature recorder on right bank, 0.6 mi (1.0 km) downstream from bridge on secondary road, 1.0 mi (1.6 km) north of Pangburn, 8.6 mi (13.8 km) upstream from Fourteen Mile Creek, and 22.1 mi (35.6 km) downstream from Greers Ferry Dam.

DRAINAGE AREA.--1,235 mi² (3,199 km²).

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

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

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 23.5°C July 4, 1977; minimum, 1.0°C Jan. 1-4, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 19.5°C Aug. 9, 10; minimum, 2.0°C Mar. 8-10.

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

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

07076500 LITTLE RED RIVER AT PANGBURN, AR--CONTINUED

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

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

07076620 LITTLE RED RIVER NEAR SEARCY, AR

LOCATION.--Lat 35°16'57", long 91°43'05", in SE¼ sec.26, T.8 N., R.7 W., White County, Hydrologic Unit 11010014, temperature recorder on right bank near waterworks tower, 2.5 mi (4.0 km) northeast of Searcy, 12.8 mi (20.6 km) downstream from Ten Mile Creek, and 23.4 mi (37.7 km) upstream from Big Mingo Creek.

DRAINAGE AREA.--1,648 mi² (4,268 km²).

PERIOD OF RECORD. October 1966 to current year.

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

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.0°C July 5, minimum, 0.0°C on many days during January 1967, January and February 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C Aug. 11; minimum, 1.0°C Feb. 20, 22.

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

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

07076620 LITTLE RED RIVER NEAR SEARCY, AR--CONTINUED

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	10.0	15.0	12.0	14.0	10.5	11.5	10.5	14.0	10.5	19.5	16.5
2	12.0	11.0	14.5	8.0	11.0	9.5	13.5	11.0	13.0	10.5	21.0	19.0
3	14.5	12.0	8.0	7.0	14.0	10.5	19.0	13.5	15.5	13.0	22.0	20.0
4	15.5	11.0	9.0	8.0	15.0	13.5	20.0	17.0	17.0	15.0	23.5	21.0
5	11.5	10.5	9.0	8.0	16.0	15.0	23.5	19.0	20.0	16.5	24.0	23.0
6	14.5	11.5	9.0	8.0	16.0	13.5	23.0	12.0	21.5	19.0	24.0	21.5
7	16.0	14.5	14.5	9.0	16.0	13.0	12.0	10.5	22.0	20.0	21.5	17.0
8	15.0	10.5	14.5	13.5	14.0	12.0	11.0	10.0	24.0	21.0	17.0	11.5
9	12.0	10.5	14.0	13.5	14.5	13.0	13.5	10.0	25.5	22.0	14.0	11.5
10	14.0	12.0	13.5	12.0	16.5	14.5	16.0	13.0	24.0	23.0	14.5	13.5
11	14.0	11.0	14.0	11.0	19.0	16.0	19.5	15.5	26.0	23.5	15.5	14.5
12	11.0	9.0	11.5	10.0	20.0	18.0	23.5	18.0	24.0	22.0	18.0	15.5
13	10.0	9.0	10.5	10.0	19.5	11.0	21.0	14.5	22.0	20.0	19.0	18.0
14	12.0	10.0	11.0	10.0	13.5	11.0	14.5	11.0	20.0	19.5	20.0	19.0
15	14.0	12.0	11.0	10.0	16.0	13.5	12.0	11.0	20.0	18.5	22.0	20.0
16	13.5	12.0	10.0	10.0	17.0	15.0	14.5	12.0	21.5	19.5	21.5	20.5
17	13.0	12.0	11.0	9.5	19.5	17.0	16.0	14.0	22.0	20.0	21.0	20.0
18	14.0	11.0	9.5	9.0	21.0	19.0	15.5	12.0	21.5	20.5	20.5	20.0
19	11.0	8.5	9.0	8.5	20.0	18.5	12.0	10.5	20.5	13.0	20.0	12.0
20	8.5	6.5	10.0	9.0	19.5	18.5	10.5	9.5	14.5	12.0	12.0	11.0
21	8.5	8.0	10.5	9.5	20.0	19.0	10.5	9.5	18.0	14.0	14.0	11.0
22	10.0	8.5	---	---	21.0	19.0	10.5	10.0	19.0	16.0	15.0	13.5
23	11.0	10.0	---	---	20.5	19.5	13.0	10.5	20.0	18.0	16.5	15.0
24	13.0	11.0	---	---	21.0	19.5	14.0	12.0	19.5	13.5	17.0	16.0
25	15.0	13.0	---	---	22.0	20.0	17.0	14.0	13.5	10.5	18.0	17.0
26	15.5	15.0	---	---	25.5	21.0	20.5	16.0	10.5	10.5	19.0	18.0
27	16.0	15.0	---	---	21.5	22.0	20.0	14.5	13.5	10.5	19.5	18.0
28	16.5	15.5	---	---	22.0	12.0	15.0	14.0	17.0	13.0	19.0	18.0
29	16.5	11.0	10.5	10.5	12.0	11.0	18.0	14.5	17.0	15.0	19.0	18.0
30	12.0	10.5	10.5	10.5	12.0	11.0	18.0	13.0	18.0	16.5	18.5	17.0
31	---	---	11.5	9.5	---	---	14.0	12.0	18.0	16.5	---	---
MONTH	16.5	6.5	15.0	7.0	25.5	9.5	23.5	9.5	26.0	10.5	24.0	11.0

07076634 LITTLE RED RIVER AT JUDSONIA, AR

LOCATION.--Lat 35°15'48", long 91°38'12", in NW¼NW¼ sec.3, T.7 N., R.6 W., White County, Hydrologic Unit 11010014, on county road, 0.3 mi (0.5 km) south of Judsonia, and 0.5 mi (0.8 km) downstream from Corley Branch.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	58	7.0	15.0	5	10.1	99	1.1	35	24
NOV											
09...	9827	9827	52	6.8	13.0	5	8.7	82	.8	150	--
DEC											
13...	9827	9827	49	--	8.0	5	10.1	85	.8	47	--
JAN											
31...	9827	9827	47	6.9	3.0	10	12.8	95	1.8	29	17
FEB											
14...	9827	9827	67	7.4	3.0	75	12.4	92	3.1	540	--
MAR											
14...	9827	9827	51	7.0	8.0	100	11.0	92	3.0	--	--
APR											
11...	9827	9827	72	6.9	12.0	15	10.7	99	1.0	57	17
MAY											
08...	9827	9827	--	7.4	15.0	70	8.7	85	1.6	2200	--
JUN											
29...	9827	9827	62	7.4	17.0	5	10.5	108	1.5	200	--
JUL											
11...	9827	9827	65	6.5	16.0	10	9.6	96	.8	190	16
AUG											
08...	9827	9827	57	7.4	22.0	0	8.6	98	1.4	75	--
SEP											
06...	9827	9827	--	7.4	23.0	20	8.2	94	--	100	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	6.0	1.9	2.8	1.3	16	4.0	4.5	44	10	2.2
NOV										
09...	--	--	--	--	--	4.0	5.0	--	19	.21
DEC										
13...	--	--	--	--	--	5.0	4.0	36	11	.17
JAN										
31...	3.0	2.0	2.6	.9	15	4.0	5.0	34	7	.24
FEB										
14...	--	--	--	--	--	5.0	4.5	67	--	.60
MAR										
14...	--	--	--	--	--	11	4.5	56	203	.33
APR										
11...	4.0	1.4	2.1	1.1	16	3.0	4.0	34	9	.12
MAY										
08...	--	--	--	--	--	5.0	4.5	60	33	.20
JUN										
29...	--	--	--	--	--	1.0	4.0	37	76	.20
JUL										
11...	4.0	1.0	2.2	1.5	18	5.0	3.5	47	24	.18
AUG										
08...	--	--	--	--	--	1.0	4.0	46	24	--
SEP										
06...	--	--	--	--	--	--	4.5	35	16	.29

WHITE RIVER BASIN

07076634 LITTLE RED RIVER AT JUDSONIA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	2.2	.06	.06	<10	<5	10	--	<10	170
NOV										
09...	<.05	.22	.14	.07	<10	--	30	740	--	190
DEC										
13...	<.05	.18	.07	.02	--	--	20	550	--	500
JAN										
31...	<.01	.24	.07	.02	<10	<5	20	290	100	160
FEB										
14...	.01	.61	.25	.15	<10	--	20	2600	--	310
MAR										
14...	.01	.34	.20	.18	<10	--	60	6000	--	420
APR										
11...	.01	.13	.08	.04	<10	6	50	380	<10	150
MAY										
08...	.01	.21	.11	.18	<10	--	60	1200	--	190
JUN										
29...	.01	.21	.14	.01	<10	--	<20	680	--	190
JUL										
11...	<.01	.18	.07	.02	<10	<5	40	680	10	340
AUG										
08...	<.01	.14	.07	.08	<10	--	20	920	--	300
SEP										
06...	.01	.30	.09	.12	<10	--	<20	710	--	220

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	20	--	--	--	--	--	--	--	--
NOV										
09...	--	80	--	--	--	--	--	--	--	--
DEC										
13...	--	30	--	--	--	--	--	--	--	--
JAN										
31...	--	60	.00	.00	.00	.00	.00	.00	.00	0
FEB										
14...	--	60	--	--	--	--	--	--	--	--
MAR										
14...	--	20	--	--	--	--	--	--	--	--
APR										
11...	--	30	--	--	--	--	--	--	--	--
MAY										
08...	--	40	--	--	--	--	--	--	--	--
JUN										
29...	--	140	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
08...	--	30	--	--	--	--	--	--	--	--
SEP										
06...	--	20	--	--	--	--	--	--	--	--

07077000 WHITE RIVER AT DEVALLS BLUFF, AR

LOCATION.--Lat 34°47'25", long 91°26'45", in SE¼ sec.17, T.2 N., R.4 W., Prairie County, Hydrologic Unit 08020301, near center of span on downstream side of bridge on U.S. Highway 70, 1.0 mi (1.6 km) northeast of DeValls Bluff, 7.5 mi (12.1 km) downstream from Wattensaw Bayou, 24.1 mi (38.8 km) upstream from Cache River, and at mile 125.3 (201.6 km).

DRAINAGE AREA.--23,483 mi² (60,821 km²).

PERIOD OF RECORD.--December 1967 to September 1970, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1963 to September 1970.

REMARKS.--Flow regulated by upstream reservoirs.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT 24...	9827	9827	237	8.0	15.0	5	9.7	95	1.2	42	150
NOV 21...	9827	9827	228	7.7	11.0	20	9.7	87	1.3	200	--
DEC 19...	9827	9827	228	8.2	9.0	30	10.2	88	1.4	110	--
JAN 23...	9827	9827	--	--	--	--	--	--	--	36	--
FEB 21...	9827	9827	231	7.9	3.0	--	12.4	92	2.6	20	--
MAR 20...	9827	9827	185	7.7	13.0	75	10.0	94	3.2	<7	--
APR 17...	9827	9827	249	7.8	15.0	15	8.8	86	1.6	7	120
MAY 15...	9827	9827	202	7.5	19.0	40	7.7	82	2.7	40	--
JUN 12...	9827	9827	241	7.8	25.0	50	8.2	98	2.9	160	--
JUL 11...	9827	9827	281	8.1	28.0	15	8.8	111	3.8	210	140
AUG 14...	9827	9827	314	8.4	28.0	5	9.5	120	3.8	150	--
SEP 11...	9827	9827	285	8.1	24.0	5	7.8	92	2.0	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT 24...	40	12	2.5	1.3	110	.0	5.5	131	29	.07
NOV 21...	--	--	--	--	--	--	6.0	142	71	.20
DEC 19...	--	--	--	--	--	4.0	5.0	140	35	.26
JAN 23...	--	--	--	--	--	--	--	--	--	--
FEB 21...	--	--	--	--	--	--	5.5	148	29	.37
MAR 20...	--	--	--	--	--	4.0	5.0	145	394	.30
APR 17...	27	12	2.0	1.7	120	4.0	5.5	139	--	.11
MAY 15...	--	--	--	--	--	<1.0	4.5	133	37	.26
JUN 12...	--	--	--	--	--	8.0	6.0	152	43	.27
JUL 11...	32	13	3.6	2.0	150	7.0	--	165	--	.03
AUG 14...	--	--	--	--	--	<1.0	7.0	179	40	.00
SEP 11...	--	--	--	--	--	3.0	6.0	164	44	--

07077000 WHITE RIVER AT DEVALLS BLUFF, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
24...	<.05	.07	--	.04	<10	<5	<10	750	<10	67
NOV										
21...	--	.21	.07	.10	--	--	--	--	--	--
DEC										
19...	<.05	.27	.12	.10	--	--	--	--	--	--
JAN										
23...	--	--	--	--	--	--	--	--	--	--
FEB										
21...	.01	.38	.08	.08	--	--	--	--	--	--
MAR										
20...	.02	.32	.13	--	--	--	--	--	--	--
APR										
17...	.01	.12	.07	--	<10	<5	<20	1300	<10	110
MAY										
15...	.04	.30	.40	.14	--	--	--	--	--	--
JUN										
12...	.02	.29	.11	.09	--	--	--	--	--	--
JUL										
11...	.01	.04	.06	.24	<10	<5	20	2200	<10	410
AUG										
14...	.01	.01	.04	--	--	--	--	--	--	--
SEP										
11...	--	--	--	.06	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
24...	--	<10	--	--	--	--	--	--	--	--
NOV										
21...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
19...	--	--	--	--	--	--	--	--	--	--
JAN										
23...	--	--	--	--	--	--	--	--	--	--
FEB										
21...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
17...	--	<10	--	--	--	--	--	--	--	--
MAY										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
12...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
11...	--	--	--	--	--	--	--	--	--	--

07077380 CACHE RIVER AT EGYPT, AR

LOCATION.--Lat 35°51'28", long 90°56'00", in NW¼SE¼ sec.12, T.14 N., R.1 E., Craighead County, Hydrologic Unit 08020302, on right bank on downstream side of bridge on State Highway 91, 1.0 mi (1.6 km) southeast of Egypt, 2.2 mi (3.5 km) northwest of Winesburg, and at mile 143 (230 km).

DRAINAGE AREA.--701 mi^2 (1,816 km^2).

PERIOD OF RECORD.--October 1964 to current year. Daily stages and results of discharge measurements for July 1937 to December 1940, December 1944 to date are published in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1972: 1966. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft (67.967 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 815 ft^3/s (23.1 m^3/s), 15.79 in/yr (401 mm/yr) 590,500 acre-ft/yr (728 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,940 ft^3/s (253 m^3/s) Jan. 6, 1966, gage height, 21.88 ft (6.669 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Nov. 14-17, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,310 ft^3/s (93.7 m^3/s) May 8, gage height, 17.61 ft (5.368 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3130	75	1380	85	480	2360	799	78	69	95	286	1830
2	3090	683	1610	78	350	2410	749	76	140	103	326	1640
3	3010	1390	1430	70	282	2890	700	106	144	270	290	1300
4	2930	1560	1100	65	233	2880	660	127	110	311	324	926
5	2830	1400	1490	63	200	2740	648	115	90	241	417	635
6	2710	1050	2000	62	180	2540	630	101	99	169	369	437
7	2540	640	1840	60	160	2750	556	1770	215	310	320	333
8	2340	388	1580	206	140	2990	477	3170	218	674	258	270
9	2040	256	1400	268	120	2960	393	3260	189	564	207	234
10	1640	192	1200	441	110	2850	341	2950	151	427	183	200
11	1240	143	959	452	100	2720	313	2000	110	1210	186	187
12	990	102	727	410	93	2560	317	837	104	2130	263	199
13	860	75	635	330	1710	2470	315	379	98	1890	514	224
14	783	64	1140	240	2630	2950	278	321	83	1550	939	322
15	730	55	1520	225	2600	2990	228	263	80	1370	728	387
16	696	63	1500	205	2370	2870	155	171	82	1250	477	382
17	656	64	1430	286	2200	2680	128	122	74	961	366	311
18	617	57	1310	355	2040	2470	230	111	64	581	284	243
19	575	54	1070	410	1780	2270	263	261	72	325	231	189
20	543	52	860	450	1400	2040	249	338	116	209	196	148
21	497	909	731	400	1080	1810	156	183	464	162	172	118
22	445	802	639	330	1050	1590	115	224	870	141	161	82
23	396	707	550	270	1050	1380	107	179	694	142	159	63
24	325	547	457	513	1480	1260	101	126	1150	133	175	50
25	249	403	331	1860	2350	1210	99	118	731	135	179	45
26	161	261	232	2100	2550	1140	93	120	456	143	196	37
27	109	164	173	2300	2440	1080	81	86	305	226	214	30
28	90	115	123	2100	2400	1010	72	73	208	207	224	25
29	68	359	98	1450	---	959	70	99	144	217	407	25
30	60	662	90	1100	---	912	69	98	112	197	1280	20
31	57	---	85	700	---	855	---	76	---	200	1790	---
TOTAL	36407	13292	29690	17884	33578	66596	9392	17938	7442	16543	12121	10892
MEAN	1174	443	958	577	1199	2148	313	579	248	534	391	363
MAX	3130	1560	2000	2300	2630	2990	799	3260	1150	2130	1790	1830
MIN	57	52	85	60	93	855	69	73	64	95	159	20
CFSM	1.68	.63	1.37	.82	1.71	3.06	.45	.83	.35	.76	.56	.52
IN.	1.93	.71	1.58	.95	1.78	3.53	.50	.95	.39	.88	.64	.58
AC-FT	72210	26360	58890	35470	66600	132100	18630	35580	14760	32810	24040	21600

CAL YR 1977 TOTAL 225915 MEAN 619 MAX 3130 MIN 18 CFSM .88 IN 11.99 AC-FT 448100
WTR YR 1978 TOTAL 271775 MEAN 745 MAX 3260 MIN 20 CFSM 1.06 IN 14.42 AC-FT 539100

07077400 CACHE RIVER NEAR CASH, AR

LOCATION.--Lat 35°47'48", long 90°58'54", in SE¼SE¼ sec.33, T.14 N., R.1 E., Craighead County, Hydrologic Unit 08020302, at bridge on State Highway 226, 2.5 mi (4.0 km) west of Cash.

DRAINAGE AREA.--735 mi² (1,904 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
03...	9827	9827	96	7.3	20.0	90	2.7	29	>2.7	20	22	2.0
31...	9827	9827	169	7.3	19.0	70	6.4	68	5.1	9	--	--
NOV												
28...	9827	9827	128	--	6.0	300	10.4	83	3.6	130	--	--
JAN												
03...	9827	9827	170	7.6	2.0	100	12.8	93	2.2	84	45	7.0
MAR												
07...	9827	9827	61	6.7	7.0	150	11.6	95	4.0	150	--	--
21...	9827	9827	66	6.7	14.0	280	8.8	85	3.9	<10	--	--
APR												
04...	9827	9827	--	7.2	15.0	200	7.6	75	5.3	63	36	1.0
24...	9827	9827	173	--	20.0	80	7.8	85	3.8	140	51	3.4
MAY												
22...	9827	9827	193	7.6	24.0	60	7.1	84	3.0	220	--	--
JUN												
19...	9827	9827	327	8.1	26.0	30	7.1	87	5.5	130	--	--
JUL												
18...	9827	9827	187	--	28.0	100	7.0	89	5.4	50	87	19
AUG												
29...	9827	9827	321	7.9	26.0	47	6.2	76	5.1	2400	--	--
SEP												
18...	9827	9827	327	7.9	27.0	50	6.4	79	2.1	880	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
03...	3.0	3.3	5.6	36	2.0	6.0	94	33	<.05	<.05	<.05
31...	--	--	--	--	--	9.0	--	--	.11	<.05	.12
NOV											
28...	--	--	--	--	10	11	236	96	.28	.11	.39
JAN											
03...	5.0	8.6	4.1	63	15	11	142	28	.11	<.05	.14
MAR											
07...	--	--	--	--	9.0	6.0	173	319	.40	.07	.47
21...	--	--	--	--	9.0	5.5	281	184	.15	.12	.27
APR											
04...	2.5	4.2	4.9	27	13	6.5	168	150	.09	.07	.16
24...	6.3	9.1	3.3	73	7.0	8.0	149	220	.27	.03	.30
MAY											
22...	--	--	--	--	--	6.5	206	208	.21	.09	.30
JUN											
19...	--	--	--	--	--	14	212	135	.12	.02	.14
JUL											
18...	8.0	12	3.3	76	51	--	154	123	.54	.34	.88
AUG											
29...	--	--	--	--	4.0	11	203	186	--	--	--
SEP											
18...	--	--	--	--	6.0	17	191	--	.17	.01	.18

07077400 CACHE RIVER NEAR CASH, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
03...	.13	1.1	1.2	--	--	.26	<10	<5	<10	--	<10
31...	.23	1.4	1.6	1.7	7.6	.70	<10	--	30	4100	--
NOV											
28...	.51	1.2	1.7	2.1	9.3	.45	<10	--	20	8800	--
JAN											
03...	.28	.92	1.2	1.3	5.9	.25	<10	<5	<20	3400	<10
MAR											
07...	.25	1.2	1.5	2.0	8.7	.34	<10	--	20	7200	--
21...	.61	2.1	2.7	3.0	13	.41	<10	--	20	9000	--
APR											
04...	.32	.78	1.1	1.3	5.8	--	<10	30	<20	12600	<10
24...	.18	1.2	1.4	1.7	7.5	.42	<10	--	<20	8300	30
MAY											
22...	.35	1.5	1.9	2.2	9.7	--	<10	--	20	8900	--
JUN											
19...	.05	1.4	1.5	1.6	7.1	.28	--	--	<20	3500	--
JUL											
18...	.30	.30	.60	1.5	6.6	.26	<10	<5	<20	3900	<10
AUG											
29...	--	--	1.1	--	--	.37	<10	--	<20	5300	--
SEP											
18...	.18	--	--	--	--	.40	<10	--	<20	3300	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	ODE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
03...	340	--	<10	.00	.00	.00	.00	.00	.00	.00	0
31...	1100	--	20	--	--	--	--	--	--	--	--
NOV											
28...	300	--	40	--	--	--	--	--	--	--	--
JAN											
03...	270	--	10	--	--	--	--	--	--	--	--
MAR											
07...	170	--	40	.00	.00	.00	.00	.00	.00	.00	0
21...	160	--	40	--	--	--	--	--	--	--	--
APR											
04...	240	--	30	--	--	--	--	--	--	--	--
24...	770	--	20	--	--	--	--	--	--	--	--
MAY											
22...	84	--	40	--	--	--	--	--	--	--	--
JUN											
19...	670	--	<10	--	--	--	--	--	--	--	--
JUL											
18...	--	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
29...	330	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP											
18...	230	--	10	.00	.00	.00	.00	.00	.00	.00	0

07077500 CACHE RIVER AT PATTERSON, AR

LOCATION.--Lat 35°16'10", long 91°14'15", in SE¼ sec.31, T.8 N., R.2 W., Woodruff County, Hydrologic Unit 08020302, at bridge on U.S. Highway 64 at Patterson, 10.9 mi (17.5 km) upstream from Maple Slough, and at mile 77.2 (124.2 km).

DRAINAGE AREA.--1,037 mi² (2,686 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1931, February 1937, August 1937 to September 1960, October 1965 to September 1977 in reports of the Geological Survey. Monthly discharge only for some periods, published in WSP 1311 and WSP 1731. January 1947 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers, Memphis district. Gage-height records July 11, 1916, to Dec. 31, 1931, are contained in reports of National Weather Service.

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

GAGE.--Water-stage recorder. Datum of gage is 182.96 ft (55.766 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 3, 1966, nonrecording and recording gages at or within 1,000 ft (305 m) of old U.S. Highway 64 crossing, 1.4 mi (2.25 km) downstream as follows: Prior to 1931, nonrecording gage at present datum; January 1937 to Oct. 5, 1949, nonrecording gage; and Oct. 6, 1949, to Dec. 31, 1950, water-stage recorder at mean Gulf level, or 0.24 ft (0.073 m) below National Geodetic Vertical Datum; Jan. 1, 1950, to Oct. 2, 1966, water-stage recorder at present datum.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--44 years (1927-31, 1937-77), 1,251 ft³/s (35.4 m³/s), 906,300 acre-ft/yr (1,120 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s (374 m³/s) Jan. 24, 1937, gage height, 13.21 ft (4.026 m), present datum; no flow Oct. 27-30, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 16.1 ft (4.90 m), present datum, from floodmarks, discharge, 24,500 ft³/s (694 m³/s), due to break in White River levee.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 3,400 ft³/s (96.3 m³/s) Apr. 3, gage height, 9.80 ft (2.987 m); minimum, 1.0 ft³/s (0.03 m³/s) Nov. 25, gage height, 2.72 ft (0.829 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	665	33	39	285	387	2930	1340	707	366	506	461
2	133	591	34	32	246	493	3170	1130	645	477	431	416
3	122	554	35	32	249	809	3280	920	567	682	384	399
4	118	493	36	33	241	1720	3170	809	485	678	327	366
5	123	436	36	30	242	1840	3170	739	424	678	268	350
6	120	371	29	29	244	1810	3170	670	374	633	233	316
7	154	289	29	26	270	1830	2930	559	333	542	204	300
8	153	249	30	24	309	2510	2810	448	278	547	179	266
9	144	210	28	23	339	2840	2580	481	223	465	161	252
10	134	179	29	21	414	2840	2110	678	175	396	152	235
11	110	136	53	19	469	2840	1770	588	137	320	150	231
12	100	118	115	17	493	3050	1570	374	96	251	154	259
13	84	92	145	15	600	3050	1420	249	70	215	158	352
14	82	72	153	13	707	2670	1320	186	74	198	171	448
15	72	57	147	29	644	2320	1210	138	77	372	184	530
16	71	45	140	56	592	2440	1100	99	88	575	199	567
17	69	36	149	94	555	2410	990	76	94	489	294	567
18	60	30	159	122	554	2300	980	58	132	571	435	584
19	58	25	166	117	485	1990	900	53	208	485	990	686
20	56	23	159	111	399	1720	838	46	313	405	813	784
21	62	18	143	109	322	1540	825	44	431	374	760	880
22	60	11	122	62	249	1200	772	48	431	331	707	1030
23	58	6.0	100	61	212	970	702	53	424	327	653	970
24	71	3.0	84	54	180	842	670	65	399	303	698	1060
25	76	2.0	69	63	159	748	657	68	355	300	707	1450
26	198	11	55	97	144	579	645	114	302	396	670	1750
27	448	19	45	147	158	698	1240	377	322	604	616	1840
28	686	24	37	218	218	1220	1780	661	353	620	497	1940
29	690	28	30	261	---	1460	1820	752	383	616	414	2300
30	698	31	25	272	---	1810	1650	723	385	575	489	3120
31	702	---	22	274	---	2580	---	715	---	551	497	---
TOTAL	5841	4824.0	2437	2500	9991	55516	52179	13261	9285	14392	13106	24709
MEAN	188	161	78.6	80.6	357	1791	1739	428	310	464	423	824
MAX	702	665	166	274	707	3050	3280	1340	707	682	990	3120
MIN	56	2.0	22	13	144	387	645	44	70	198	150	231
AC-FT	11590	9570	4830	4960	19820	110100	103500	26300	18420	28550	26000	49010

CAL YR 1976 TOTAL 368630.0 MEAN 1007 MAX 4180 MIN 2.0 AC-FT 731200
WTR YR 1977 TOTAL 208041.0 MEAN 570 MAX 3280 MIN 2.0 AC-FT 412600

07077500 CACHE RIVER AT PATTERSON, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1952 to May 1955, October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
12...	1028	1028	122	7.1	15.0	6.9	71	36	--	3.8	K130	1500
NOV												
11...	1028	1028	--	--	--	--	--	--	--	--	--	--
11...	1028	1028	140	7.4	12.0	6.5	62	50	--	3.3	K140	720
DEC												
06...	1028	1028	105	7.1	6.0	8.6	71	64	--	3.5	K330	5300
JAN												
05...	1028	1028	132	6.9	4.0	10.0	79	--	38	2.7	K100	K67
FEB												
07...	1028	1028	87	7.0	.5	11.1	79	--	24	1.6	K13	K76
28...	1028	1028	73	6.7	3.5	11.6	90	--	--	3.0	K56	260
APR												
06...	1028	1028	84	6.8	23.0	6.7	80	37	--	2.5	K83	580
MAY												
03...	1028	1028	119	7.3	14.5	5.6	57	52	--	3.2	600	880
JUN												
01...	1028	1028	165	7.5	26.0	3.7	46	--	43	2.5	K270	K14000
JUL												
11...	1028	1028	215	7.4	27.5	4.8	61	--	36	1.1	K130	K200
AUG												
08...	1028	1028	345	7.6	24.0	6.4	78	--	40	2.4	K89	320

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
OCT												
12...	42	0	10	4.1	3.8	14	.3	5.9	52	0	43	6.6
NOV												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	47	6	11	4.8	7.4	22	.5	7.6	50	0	41	3.2
DEC												
06...	33	12	7.6	3.5	5.6	24	.4	4.9	26	0	21	3.3
JAN												
05...	49	5	12	4.5	7.8	24	.5	4.7	53	0	43	11
FEB												
07...	31	7	6.8	3.3	4.8	23	.4	3.4	29	0	24	4.6
28...	22	5	5.4	2.0	4.0	26	.4	2.9	20	0	16	6.4
APR												
06...	33	6	8.1	3.1	4.0	19	.3	3.6	33	0	27	8.4
MAY												
03...	45	4	12	3.7	4.8	18	.3	3.1	50	0	41	4.0
JUN												
01...	62	1	16	5.4	7.8	20	.4	3.5	74	0	61	3.7
JUL												
11...	83	0	21	7.5	13	24	.6	3.2	105	0	86	6.7
AUG												
08...	140	0	35	12	18	22	.7	2.7	190	0	160	7.6

07077500 CACHE RIVER AT PATTERSON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
OCT												
12...	2.8	5.2	.1	10	72	68	.10	.05	.42	.47	2.1	.18
NOV												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	12	12	.1	13	106	93	.14	.04	.97	1.0	4.5	.18
DEC												
06...	13	8.3	.1	7.9	95	64	.13	.33	1.5	1.8	8.1	.31
JAN												
05...	14	7.3	.1	8.8	95	85	.13	.20	1.2	1.4	6.2	.22
FEB												
07...	11	5.2	.1	7.1	71	56	.10	.53	.64	1.2	5.2	.17
28...	10	4.0	.0	5.0	48	43	.07	.68	.68	1.4	6.0	.15
APR												
06...	8.1	4.7	.1	4.8	69	53	.09	.28	1.3	1.6	7.0	.29
MAY												
03...	9.2	5.5	.1	8.8	80	72	.11	.71	1.5	2.2	9.8	.47
JUN												
01...	11	5.0	.2	12	99	97	.13	.77	1.2	2.0	8.7	.39
JUL												
11...	9.5	6.6	.2	19	139	132	.19	.67	1.0	1.7	7.4	.20
AUG												
08...	5.6	8.0	.2	19	205	194	.28	.43	.86	1.3	5.7	.13

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD) (01026)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR) (01031)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO) (01036)
OCT											
12...	2	0	2	<10	<10	0	20	0	20	<50	<50
NOV											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU) (01041)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)
OCT											
12...	0	<10	<7	3	900	240	<100	<100	0	120	10
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--

07077500 CACHE RIVER AT PATTERSON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT											
12...	110	.0	.0	.0	0	0	0	10	0	10	8.0
JAN											
05...	--	--	--	--	--	--	--	--	--	--	8.4
APR											
06...	--	--	--	--	--	--	--	--	--	--	11
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	9.3

DATE	PCB, TOTAL (UG/L) (39516)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	NAPHTHALENES, POLYCHLOR, TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)
OCT											
12...	.0	0	.00	.00	.0	.0	.00	2.2	.00	1.7	.00
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	0	--	--	.2	--	--	5.9	--	5.8	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN TOTAL (UG/L) (39380)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)
OCT											
12...	7.6	.00	.0	.00	.4	.00	.3	.00	.0	.00	.0
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	4.1	--	.0	--	1.0	--	.2	--	.0	--	.0
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)
OCT											
12...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	.0	--	.0	--	.0	--	--	.0	--	.0
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L) (39755)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)
OCT										
12...	.00	.00	.0	0	26	.00	.0	.02	.02	.00
MAY										
03...	--	--	.0	--	0	--	.9	--	--	--

07077500 CACHE RIVER AT PATTERSON, AR--CONTINUED

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

PHYTOPLANKTON

DATE	OCT 12,77
TIME	1210
TOTAL CELLS/ML	1200
DIVERSITY: DIVISION	1.9
.CLASS	2.0
..ORDER	2.3
...FAMILY	2.7
....GENUS	3.5

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	130	11
....CHLORELLA	140	12
....KIRCHNERIELLA	95	8
...SCENEDESMACEAE		
....SCENEDESMUS	83	7
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	48	4
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	12	1
...CYMBELLACEAE		
....CYMBELLA	12	1
...FRAGILARIACEAE		
....SYNEDRA	24	2
...NAVICULACEAE		
....NAVICULA	12	1
...NITZSCHIACEAE		
....NITZSCHIA	36	3
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....CHRYSOCOCCUS	36	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCCOCCACEAE		
....ANACYSTIS	48	4
..HORMOGONALES		
...RIVULARIACEAE		
....RAPHIDIOPSIS	190#	16
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	36	3
....LEPOCINCLIS	12	1
....PHACUS	24	2
....TRACHELOMONAS	210#	19

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M2)	CHLOROPHYLL B (MG/M2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 11	30	.551	.394	.157	.000	.000	--	POLYETHYLENE STRIP

07077600 CACHE RIVER AT BRASFIELD, AR

LOCATION.--Lat 34°49'52", long 91°22'42", in NW¼SE¼ sec.36, T.3 N., R.4 W., at Monroe-Prairie County line, Hydrologic Unit 08020302, at bridge on U.S. Highway 70 at Brasfield and 3.1 mi (5.0 km) downstream from Jackson Bayou.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT 24...	9827	9827	116	7.1	16.0	55	5.5	55	2.2	130	40	8.0
NOV 21...	9827	9827	151	7.0	11.0	100	7.1	64	1.6	150	--	--
DEC 19...	9827	9827	104	7.2	9.0	220	8.7	75	1.4	85	--	--
JAN 23...	9827	9827	97	6.8	3.0	200	10.8	80	3.3	65	27	2.0
FEB 21...	9827	9827	75	7.2	1.0	--	12.7	89	3.0	24	--	--
MAR 20...	9827	9827	76	6.9	14.0	250	9.0	87	2.5	<7	--	--
APR 17...	9827	9827	107	7.0	18.0	200	4.9	52	2.5	67	29	2.1
MAY 15...	9827	9827	71	6.7	19.0	180	5.8	62	2.9	220	--	--
JUN 12...	9827	9827	116	7.2	25.0	150	6.0	71	3.8	130	--	--
JUL 11...	9827	9827	188	7.5	28.0	100	4.0	51	2.5	260	53	10
AUG 14...	9827	9827	300	8.0	29.0	10	9.8	126	5.5	250	--	--
SEP 11...	9827	9827	182	7.3	25.0	55	5.4	64	1.3	--	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT 24...	4.2	4.4	4.7	46	1.0	7.5	99	11	.05	<.05	.06
NOV 21...	--	--	--	--	--	13	141	20	.09	--	.11
DEC 19...	--	--	--	--	10	9.5	200	35	.14	.07	.21
JAN 23...	3.0	4.7	4.0	32	6.0	8.0	174	--	.29	.06	.35
FEB 21...	--	--	--	--	--	5.5	117	30	.42	.03	.45
MAR 20...	--	--	--	--	11	5.0	188	94	.29	.06	.35
APR 17...	3.1	4.4	3.4	39	7.0	7.5	153	--	.13	.06	.19
MAY 15...	--	--	--	5	4.0	4.5	191	63	.28	.12	.40
JUN 12...	--	--	--	--	9.0	6.5	161	92	.30	.10	.40
JUL 11...	5.0	11	3.9	80	11	--	154	--	.06	.02	.08
AUG 14...	--	--	--	--	2.0	15	191	35	.20	.01	.21
SEP 11...	--	--	--	--	5.0	9.5	139	24	--	--	--

07077600 CACHE RIVER AT BRASFIELD, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
24...	--	--	.40	.46	2.0	.10	<10	<5	<10	1500	<10
NOV											
21...	.18	1.7	1.9	2.0	8.9	.19	<10	--	<20	2600	--
DEC											
19...	.27	1.1	1.4	1.6	7.1	.31	<10	--	<20	5900	--
JAN											
23...	.26	1.6	1.9	2.2	10	.29	<10	20	<20	5300	<10
FEB											
21...	.14	.86	1.0	1.4	6.4	.22	<10	--	<20	2900	--
MAR											
20...	.28	.92	1.2	1.5	6.9	--	<10	--	30	6900	--
APR											
17...	.29	1.0	1.3	1.5	6.6	--	<10	30	<20	5600	<10
MAY											
15...	.51	--	--	--	--	.45	<10	--	<20	5200	--
JUN											
12...	.32	1.2	1.5	1.9	8.4	.28	<10	--	<10	5000	--
JUL											
11...	.12	.38	.50	.58	2.6	.30	<10	<5	30	3300	<10
AUG											
14...	.05	--	--	--	--	--	<10	--	<20	1500	--
SEP											
11...	--	--	<.10	--	--	.13	<10	--	<20	1500	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
24...	110	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV											
21...	290	--	<10	--	--	--	--	--	--	--	--
DEC											
19...	96	--	20	--	--	--	--	--	--	--	--
JAN											
23...	140	--	20	--	--	--	--	--	--	--	--
FEB											
21...	130	--	10	.00	.00	.00	.00	.00	.00	.00	0
MAR											
20...	670	--	230	--	--	--	--	--	--	--	--
APR											
17...	310	--	20	--	--	--	--	--	--	--	--
MAY											
15...	250	--	20	--	--	--	--	--	--	--	--
JUN											
12...	460	--	<10	.00	.00	.00	.00	.00	.00	.00	0
JUL											
11...	550	1.1	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
14...	460	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP											
11...	120	--	<10	.00	.00	.00	.00	.00	.00	.00	0

07077660 BAYOU DEVIEW NEAR GIBSON, AR

LOCATION.--Lat 35°47'36", long 90°50'18", in SW¼SW¼ sec.36, T.14 N., R.2 E., Craighead County, Hydrologic Unit 08020302, at bridge on State Highway 226, 1.8 mi (2.9 km) northwest of Gibson.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	118	7.0	21.0	200	1.3	14	70	--	21
31...	9827	9827	421	7.6	19.0	50	5.2	55	17	3400	--
NOV											
28...	9827	9827	254	--	6.0	160	9.8	78	9.2	65000	--
JAN											
03...	9827	9827	274	7.6	.0	80	11.5	79	11	5600	45
MAR											
07...	9827	9827	61	6.6	7.0	200	11.2	92	6.4	7000	--
21...	9827	9827	95	7.0	15.0	150	8.9	87	4.7	12600	--
APR											
04...	9827	9827	--	7.7	16.0	55	10.2	102	>10	130	40
24...	9827	9827	198	--	20.0	150	5.5	60	11	10800	42
MAY											
22...	9827	9827	131	7.3	24.0	70	7.1	84	4.8	1900	--
JUN											
12...	9827	9827	--	--	--	--	--	--	--	--	--
19...	9827	9827	156	7.0	26.0	150	4.3	52	>4.3	--	--
JUL											
18...	9827	9827	352	--	29.0	100	9.4	121	11	4500	130
AUG											
29...	9827	9827	134	7.0	26.0	100	4.0	49	>4.0	--	--
SEP											
18...	9827	9827	413	7.8	27.0	45	5.9	73	8.8	<200	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT											
03...	<1.0	2.0	8.9	6.2	34	6.0	12	180	108	<.05	<.05
31...	--	--	--	--	--	--	39	--	--	.06	<.05
NOV											
28...	--	--	--	--	--	230	22	193	33	1.6	.25
JAN											
03...	6.0	6.0	24	4.4	78	8.0	21	195	21	1.0	.20
MAR											
07...	--	--	--	--	--	11	5.0	192	1220	.44	.08
21...	--	--	--	--	--	9.0	8.5	135	135	.33	.04
APR											
04...	5.0	5.0	20	6.1	68	18	20	155	23	.21	.11
24...	2.5	5.4	14	6.6	68	14	14	192	77	.53	.24
MAY											
22...	--	--	--	--	--	--	9.0	150	80	.26	.26
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	12	11	226	325	.30	.38
JUL											
18...	33	11	22	6.7	130	1.0	--	226	75	--	--
AUG											
29...	--	--	--	--	--	7.0	9.5	150	310	--	--
SEP											
18...	--	--	--	--	--	15	33	225	--	.04	.02

07077660 BAYOU DEVIEW NEAR GIBSON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
03...	<.05	2.4	--	--	--	1.6	<10	<5	<10	--	<10
31...	.08	28	.00	.08	.40	4.0	<10	--	10	3100	--
NOV											
28...	1.9	9.0	.00	1.9	8.4	.19	<10	--	20	4000	--
JAN											
03...	1.2	4.5	--	--	--	2.5	<10	10	<20	2500	10
MAR											
07...	.52	.29	--	--	--	.65	<10	--	20	15100	--
21...	.37	.65	--	--	--	.56	<10	--	<20	5600	--
APR											
04...	.32	5.3	--	--	--	--	<10	<5	<20	3600	<10
24...	.77	2.0	--	--	--	1.7	<10	--	<20	7000	10
MAY											
22...	.52	1.5	--	--	--	--	<10	--	20	5400	--
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
19...	.68	.93	--	--	--	.83	--	--	20	11500	--
JUL											
18...	.97	.54	--	--	--	.73	<10	<5	<20	2400	10
AUG											
29...	--	--	--	--	--	.87	<10	--	<20	9400	--
SEP											
18...	.06	5.0	--	--	--	4.3	<10	--	<20	2400	--

DATE	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)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT											
03...	790	--	20	.00	.00	.00	.00	.00	.00	.00	0
31...	920	--	10	--	--	--	--	--	--	--	--
NOV											
28...	360	--	30	--	--	--	--	--	--	--	--
JAN											
03...	400	--	20	--	--	--	--	--	--	--	--
MAR											
07...	670	--	90	.00	.00	.00	.00	.00	.00	.00	0
21...	280	--	20	--	--	--	--	--	--	--	--
APR											
04...	350	--	20	--	--	--	--	--	--	--	--
24...	680	--	30	--	--	--	--	--	--	--	--
MAY											
22...	<8	--	20	--	--	--	--	--	--	--	--
JUN											
12...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
19...	560	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
29...	860	--	150	.00	.00	.00	.00	.00	.00	.00	0
SEP											
18...	1500	--	10	.00	.00	.00	.00	.00	.00	.00	0

07077700 BAYOU DEVIEW AT MORTON, AR

LOCATION.--Lat 35°15'07", long 91°06'37", near center of secs.4, 5, 8, and 9, T.7 N., R.1 W., Woodruff County, Hydrologic Unit 08020302, at bridge on U.S. Highway 64, 1.0 mi (1.6 km) west of Morton, and at mile 39.6 (63.7 km).

DRAINAGE AREA.--421 mi^2 (1,090 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to May 1973, August 1973 to September 1977 in reports of Geological Survey. February 1939 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers, Memphis district.

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

GAGE.--Water-stage recorder. Datum of gage is 187.71 ft (57.214 m) National Geodetic Vertical Datum of 1929. Nonrecording gage prior to Nov. 8, 1949. At datum 0.26 ft (0.079 m) below National Geodetic Vertical Datum prior to Jan. 1, 1952.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--37 years (1940-72, 1974-77), 515 ft^3/s (14.6 m^3/s), 373,100 acre-ft/yr (460 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft^3/s (190 m^3/s) Nov. 23, 1957, gage height, 18.23 ft (5.557 m); maximum gage height, 18.75 ft (5.715 m) May 2, 1973; no flow at times in most years. Maximum stage since at least 1932, that of May 2, 1973.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 1,700 ft^3/s (48.1 m^3/s) Mar. 6, gage height, 17.38 ft (5.297 m); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	429	15	.00	577	62	1140	.00	.00	136	99	218
2	.00	265	9.0	.00	347	230	784	.00	.00	101	61	189
3	.00	191	6.0	.00	185	1140	646	.00	.00	76	39	160
4	.00	121	.00	.00	207	1380	711	.00	.00	51	29	113
5	.00	57	.00	.00	388	1560	704	.00	.00	29	23	63
6	.00	23	.00	.00	560	1640	666	.00	.00	8.0	24	41
7	.00	.00	.00	.00	589	1610	515	.00	.00	.00	26	36
8	.00	.00	.00	.00	507	1460	355	.00	.00	.00	25	36
9	.00	.00	.00	.00	368	1150	230	.00	.00	.00	18	27
10	.00	.00	.00	.00	249	849	148	66	.00	41	5.0	17
11	.00	.00	18	.00	195	842	66	78	.00	57	2.0	.00
12	.00	.00	121	.00	175	1070	35	40	.00	56	.00	.00
13	.00	.00	168	.00	527	1070	18	8.0	.00	49	7.0	.00
14	.00	.00	144	.00	914	1070	11	.00	2.0	36	15	129
15	.00	.00	76	4.0	965	885	3.0	.00	34	21	42	314
16	.00	.00	37	61	740	593	.00	.00	43	8.0	240	409
17	.00	.00	6.0	168	552	462	.00	.00	62	3.0	433	347
18	.00	.00	.00	171	396	343	.00	.00	65	3.0	719	238
19	.00	.00	.00	169	230	253	.00	.00	142	4.0	856	158
20	.00	.00	.00	168	142	193	.00	.00	177	9.0	820	74
21	.00	.00	.00	152	86	129	1.0	.00	158	18	719	30
22	.00	.00	.00	90	57	67	.00	.00	129	26	601	4.0
23	.00	.00	.00	60	60	40	.00	.00	72	37	507	34
24	10	.00	.00	58	91	22	61	.00	42	67	421	1070
25	675	.00	.00	59	125	6.0	376	.00	18	109	339	1290
26	1020	.00	.00	90	212	7.0	269	.00	1.0	134	255	1400
27	1180	12	.00	171	208	259	164	48	57	146	214	1570
28	1040	34	.00	404	91	965	67	63	230	150	177	1580
29	663	34	.00	630	---	1180	28	41	224	148	148	1510
30	548	24	.00	642	---	1270	.00	17	185	138	179	1610
31	523	---	.00	618	---	1280	---	2.0	---	132	238	---
TOTAL	5659.00	1190.00	600.00	3715.00	9743	23087.0	6998.00	363.00	1641.00	1793.00	7281.00	12667.00
MEAN	183	39.7	19.4	120	348	745	233	11.7	54.7	57.8	235	422
MAX	1180	429	168	642	965	1640	1140	78	230	150	856	1610
MIN	.00	.00	.00	.00	57	6.0	.00	.00	.00	.00	.00	.00
AC-FT	11220	2360	1190	7370	19330	45790	13880	720	3250	3560	14440	25120

CAL YR 1976	TOTAL	154013.00	MEAN 421	MAX 2460	MIN .00	AC-FT	305500		
WTR YR 1977	TOTAL	74737.00	MEAN 205	MAX 1640	MIN .00	AC-FT	148200		

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L) (00335)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
12...	1028	1028	167	7.1	15.0	3.1	32	38	--	3.2	K100	K360
NOV												
11...	1028	1028	--	--	--	--	--	--	--	--	--	--
11...	1028	1028	208	7.2	13.5	3.9	39	48	--	4.2	K140	K170
DEC												
06...	1028	1028	115	7.1	7.0	9.6	82	80	--	5.3	3900	K16000
JAN												
05...	1028	1028	179	7.2	5.0	9.6	77	--	39	3.0	<33	K110
FEB												
07...	1028	1028	111	7.2	.5	10.8	77	--	27	3.4	K130	740
28...	1028	1028	80	6.7	3.5	11.6	90	--	41	4.3	K190	3000
APR												
06...	1028	1028	129	7.3	18.0	5.6	61	39	--	4.6	K33	K100
MAY												
03...	1028	1028	96	7.2	14.5	4.7	47	81	--	4.1	570	1500
JUN												
01...	1028	1028	141	7.4	25.5	2.8	35	--	55	7.3	K33	6700
JUL												
11...	1028	1028	220	7.3	27.0	2.9	37	--	35	3.0	K370	K320
AUG												
08...	1028	1028	433	7.7	24.0	7.0	85	--	58	5.1	K89	510

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
OCT												
12...	60	1	15	5.4	7.6	19	.4	7.3	72	0	59	9.2
NOV												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	76	5	19	6.9	9.3	19	.5	8.4	86	0	71	8.7
DEC												
06...	36	9	8.8	3.4	7.6	28	.6	5.0	33	0	27	4.2
JAN												
05...	58	11	15	4.9	--	--	--	5.0	57	0	47	5.8
FEB												
07...	41	1	10	3.8	7.2	26	.5	3.5	48	0	39	4.3
28...	25	4	6.7	2.0	5.2	28	.5	2.7	25	0	21	8.0
APR												
06...	44	2	11	3.9	7.8	26	.5	3.9	51	0	42	4.1
MAY												
03...	34	7	8.5	3.0	5.9	25	.4	3.2	33	0	27	3.3
JUN												
01...	49	0	13	4.1	6.7	21	.4	3.2	61	0	50	3.9
JUL												
11...	90	13	24	7.3	10	19	.5	3.0	94	0	77	7.5
AUG												
08...	180	0	46	15	21	20	.7	2.3	230	0	190	7.3

07077700 BAYOU DEVIEW AT MORTON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)
OCT												
12...	7.6	9.4	.1	14	105	103	.14	.25	.69	.94	4.2	.28
NOV												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	9.3	15	.1	14	134	124	.18	.04	1.3	1.3	5.9	.24
DEC												
06...	14	9.1	.1	7.5	108	72	.15	.35	2.5	2.9	13	.42
JAN												
05...	17	12	.2	10	122	--	.17	.47	1.4	1.9	8.3	.34
FEB												
07...	8.6	6.4	.1	5.2	86	68	.12	.17	1.1	1.3	5.6	.21
28...	10	4.6	.1	4.6	62	48	.08	.43	1.2	1.6	7.2	.25
APR												
06...	9.7	8.7	.1	6.4	83	77	.11	.33	1.8	2.1	9.4	.32
MAY												
03...	9.8	4.9	.1	6.3	84	58	.11	.74	2.3	3.0	13	.56
JUN												
01...	7.9	4.8	.2	8.4	90	78	.12	1.0	2.0	3.0	13	.53
JUL												
11...	17	6.8	.2	15	151	130	.21	.55	1.3	1.9	8.2	.19
AUG												
08...	15	11	.2	21	258	245	.35	.34	1.3	1.6	7.3	.16

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD) (01026)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR) (01031)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO) (01036)
OCT											
12...	3	2	1	<10	<9	1	20	10	10	<50	<50
NOV											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU) (01041)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT										
12...	0	<10	<6	4	1900	240	<100	<100	0	750
JAN										
05...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--

07077700 BAYOU DEVIEW AT MORTON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)
OCT 12...	200	550	.0	.0	.0	0	0	0	10	0
JAN 05...	--	--	--	--	--	--	--	--	--	--
APR 06...	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--	--

DATE	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, TOTAL (UG/L) (39516)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIAZINON, TOTAL (UG/L) (39570)
OCT 12...	10	8.2	.0	.00	.00	.0	.00	.00	.00	.00
JAN 05...	--	10	--	--	--	--	--	--	--	--
APR 06...	--	12	--	--	--	--	--	--	--	--
JUL 11...	--	8.2	--	--	--	--	--	--	--	--

DATE	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	MALATHION, TOTAL (UG/L) (39530)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL TRITHION, TOTAL (UG/L) (39790)
OCT 12...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN 05...	--	--	--	--	--	--	--	--	--	--
APR 06...	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L) (39755)	PARATHION, TOTAL (UG/L) (39540)	TOXAPHENE, TOTAL (UG/L) (39400)	TOTAL TRITHION (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)
OCT 12...	.00	.00	0	.00	.05	.04	.00

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	BIOMASS (MG/M^2) ASH WEIGHT	BIOMASS (MG/M^2) ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 11	30	--	--	--	.720	.620	--	POLYETHYLENE STRIP

07077750 BAYOU DEVIEW NEAR BRASFIELD, AR

LOCATION.--Lat 34°50'21", long 91°17'04", in NW¼NE¼ sec.35, T.3 N., R.3 W., Monroe County, Hydrologic Unit 08020302, at bridge on U.S. Highway 70, 1.4 mi (2.3 km) upstream from Big Rhobe Bayou, and 5.6 mi (9.0 km) northeast of Brasfield.

DRAINAGE AREA.--632 mi² (1,637 km²).

PERIOD OF RECORD.--January 1955 to September 1957, April 1974 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	188	7.4	18.0	50	4.7	49	1.5	13	69
NOV											
21...	9827	9827	148	7.2	11.0	80	6.6	59	1.5	1800	--
DEC											
19...	9827	9827	119	7.3	9.0	150	7.6	66	.8	60	--
JAN											
23...	9827	9827	82	6.7	2.0	200	10.1	73	2.2	9	21
FEB											
21...	9827	9827	66	7.1	1.0	--	12.6	89	2.6	17	--
MAR											
20...	9827	9827	87	6.9	9.0	300	8.1	70	1.8	20	--
APR											
17...	9827	9827	161	7.2	18.0	80	3.5	37	>3.5	15	56
MAY											
15...	9827	9827	65	6.6	19.0	180	6.0	64	2.5	50	--
JUN											
12...	9827	9827	103	7.2	25.0	150	5.8	69	1.5	45	--
JUL											
11...	9827	9827	161	7.5	27.0	100	6.0	74	2.2	95	50
AUG											
14...	9827	9827	240	7.6	27.0	35	7.7	95	2.6	160	--
SEP											
11...	9827	9827	194	7.3	25.0	45	5.0	60	1.1	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
24...	16	6.4	8.0	5.6	70	1.0	13	131	16	.12
NOV										
21...	--	--	--	--	--	--	12	131	47	.06
DEC										
19...	--	--	--	--	--	10	11	168	13	<.05
JAN										
23...	2.0	2.0	4.9	4.1	24	7.0	7.5	155	--	.21
FEB										
21...	--	--	--	--	--	--	5.5	145	60	.48
MAR										
20...	--	--	--	--	--	9.0	6.5	209	52	.19
APR										
17...	9.8	5.1	8.5	4.1	68	3.0	9.5	110	--	.00
MAY										
15...	--	--	--	--	--	5.0	4.5	216	42	.21
JUN										
12...	--	--	--	--	--	10	6.5	159	46	.22
JUL										
11...	10	5.0	10	3.8	69	29	--	118	--	.36
AUG										
14...	--	--	--	--	--	7.0	16	153	28	.02
SEP										
11...	--	--	--	--	--	6.0	11	131	14	--

WHITE RIVER BASIN

07077750 BAYOU DEVIEW NEAR BRASFIELD, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT 24...	<.05	.13	--	.10	<10	<5	<10	1500	10	180
NOV 21...	--	.07	.14	.23	<10	--	<20	2900	--	200
DEC 19...	<.05	.05	.19	.21	<10	--	<20	4100	--	110
JAN 23...	.04	.25	.17	.22	<10	20	<20	4300	60	91
FEB 21...	.04	.52	.18	.24	<10	--	<20	3500	--	69
MAR 20...	.06	.25	.28	--	<10	--	20	6500	--	140
APR 17...	.01	.01	.06	--	<10	<5	20	4600	<10	1100
MAY 15...	.12	.33	.47	.41	<10	--	<20	5100	--	200
JUN 12...	.08	.30	.27	.28	--	--	--	--	--	--
JUL 11...	.03	.39	.08	.29	<10	<5	40	2100	20	200
AUG 14...	.01	.03	.07	--	<10	--	<20	2500	--	340
SEP 11...	--	--	--	.13	<10	--	<20	810	--	110

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT 24...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV 21...	--	10	--	--	--	--	--	--	--	--
DEC 19...	--	20	--	--	--	--	--	--	--	--
JAN 23...	--	30	--	--	--	--	--	--	--	--
FEB 21...	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR 20...	--	30	--	--	--	--	--	--	--	--
APR 17...	--	10	--	--	--	--	--	--	--	--
MAY 15...	--	20	--	--	--	--	--	--	--	--
JUN 12...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL 11...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG 14...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP 11...	--	30	.00	.00	.00	.00	.00	.00	.00	0

07077790 CACHE RIVER AT 100 YDS BELOW DREDGING, AR

LOCATION.--Lat 34°44'32", long 91°18'24", NW¼SE¼ sec.34, T.2 N., R.3 W., Monroe County, Hydrologic Unit 08020303, 1.1 mi (1.8 km) downstream from Dobbs Landing, and 5.0 mi (8.0 km) upstream from mouth. Precise location of data collection will progress upstream with dredging operation.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT											
27...	1028	1028	1610	127	7.0	17.0	--	.40	4.2	45	1.6
NOV											
22...	1028	1028	1290	150	7.3	11.0	--	.27	7.5	70	2.2
DEC											
21...	1028	1028	--	130	7.0	6.5	--	.13	9.4	79	2.6
JAN											
30...	1028	1028	4210	75	7.3	.5	--	.20	10.5	75	2.0
MAR											
06...	1028	1028	3830	75	7.1	4.0	--	--	10.6	83	1.8
MAY											
12...	1028	1028	--	139	7.3	--	--	--	--	--	4.4
30...	1028	1028	2910	143	7.8	25.0	--	.18	3.8	47	3.2
JUL											
07...	1028	1028	--	152	7.4	30.0	--	.06	4.7	63	1.9
AUG											
03...	1028	1028	545	234	7.8	30.0	--	.18	4.9	65	3.0
18...	1028	1028	591	311	7.8	29.5	--	.18	5.6	74	3.6
31...	1028	1028	850	317	7.4	26.0	--	.18	6.8	85	.7
SEP											
28...	1028	1028	4540	116	7.4	21.5	28	--	4.7	55	2.3

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)
OCT											
27...	K50	300	48	0	12	4.4	4.6	15	.3	5.3	60
NOV											
22...	K120	E8000	49	5	12	4.7	8.1	24	.5	5.6	54
DEC											
21...	K22	1400	37	10	8.9	3.7	6.1	24	.4	4.4	33
JAN											
30...	K7	1600	30	6	7.7	2.6	2.9	16	.2	2.3	29
MAR											
06...	K13	140	24	8	5.6	2.4	4.1	25	.4	2.6	19
MAY											
12...	K110	190	60	2	15	5.5	2.4	8	.1	1.9	71
30...	44	2500	61	6	15	5.8	3.9	12	.2	2.8	68
JUL											
07...	K67	180	55	5	14	4.9	9.5	26	.6	3.3	61
AUG											
03...	K11	K100	80	0	20	7.4	16	29	.8	3.3	110
18...	K56	K40	110	0	28	10	21	28	.9	3.3	150
31...	330	310	110	0	29	10	24	31	1.0	3.7	140
SEP											
28...	K120	2200	42	--	11	3.6	4.7	18	.3	3.5	--

07077790 CACHE RIVER AT 100 YDS BELOW DREDGING, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)
OCT											
27...	0	49	9.6	7.5	6.2	.1	10	93	80	.13	404
NOV											
22...	0	44	4.3	8.0	12	.1	11	93	89	.13	324
DEC											
21...	0	27	5.3	12	7.8	.1	7.9	77	67	.10	--
JAN											
30...	0	24	2.3	6.1	3.3	.0	4.4	54	44	.07	614
MAR											
06...	0	16	2.4	11	4.3	.1	3.5	48	43	.07	496
MAY											
12...	0	58	5.7	8.0	3.6	.1	5.3	87	77	.12	--
30...	0	56	1.7	6.5	3.8	.1	6.4	84	78	.11	660
JUL											
07...	0	50	3.9	12	7.6	.1	10	98	92	.13	--
AUG											
03...	0	90	2.8	8.9	15	.1	14	133	139	.18	196
18...	0	120	3.8	8.3	15	.2	14	181	174	.25	289
31...	0	110	8.9	9.4	22	2.8	2.9	200	173	.27	459
SEP											
28...	--	44	--	5.4	5.2	.1	10	80	--	.11	981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	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)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)
OCT											
27...	43	.03	--	.04	.65	.69	--	.72	3.2	.16	.10
NOV											
22...	41	.14	--	.03	.69	.72	.41	.86	3.8	.21	.08
DEC											
21...	53	.11	--	.08	.66	.74	--	.85	3.8	.21	.06
JAN											
30...	25	.31	--	.06	.52	.58	.54	.89	3.9	.16	.06
MAR											
06...	18	.51	--	.06	.75	.81	--	1.3	5.8	.18	.04
MAY											
12...	65	.40	--	.19	.59	.78	.33	1.2	5.2	.22	.02
30...	48	.15	--	.09	.91	1.0	--	1.2	5.1	.16	.07
JUL											
07...	234	.38	--	.10	1.0	1.1	.55	1.5	6.6	.45	.06
AUG											
03...	--	.33	--	.04	.88	.92	.75	1.3	5.5	.35	.06
18...	63	.22	--	.09	.55	.64	.52	.86	3.8	.13	.04
31...	60	.24	--	.08	.66	.74	.54	.98	4.3	.15	.02
SEP											
28...	--	--	.08	.07	--	--	--	--	--	.21	--

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT											
27...	2	0	2	100	0	<10	<9	1	5	5	0
NOV											
22...	2	1	1	300	0	1	0	1	20	10	10
DEC											
21...	2	1	1	0	0	1	0	1	0	0	0
JAN											
30...	1	1	0	0	0	0	0	0	20	20	0
MAR											
06...	2	0	2	100	100	2	0	2	10	10	0
MAY											
12...	1	0	1	200	200	1	1	0	10	10	0
30...	3	1	2	0	0	2	0	2	15	15	0
JUL											
07...	2	1	1	400	200	0	0	0	2	2	0
AUG											
03...	14	12	2	300	80	2	0	2	10	0	10
18...	3	2	1	200	200	1	0	<1	0	0	0
31...	2	0	2	200	200	0	0	0	10	0	10
SEP											
28...	2	--	1	--	--	2	2	0	10	0	10

07077790 CACHE RIVER AT 100 YDS BELOW DREDGING, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO) (01036)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU) (01041)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)
OCT											
27...	<50	<50	0	<10	<6	4	1700	--	180	<100	<99
NOV											
22...	0	0	0	11	5	6	2400	--	290	6	4
DEC											
21...	0	0	0	14	5	9	3900	--	250	8	5
JAN											
30...	0	0	0	14	8	6	1600	--	100	19	14
MAR											
06...	1	1	0	15	6	9	3700	--	50	9	9
MAY											
12...	2	1	1	14	8	6	3100	--	100	25	22
30...	0	0	0	14	2	12	3600	--	20	8	5
JUL											
07...	2	0	2	18	12	6	8500	8400	90	14	14
AUG											
03...	0	0	0	12	7	5	7000	6900	70	21	21
18...	3	0	3	9	5	4	1800	1800	50	11	11
31...	0	0	0	12	10	2	1600	1500	80	9	8
SEP											
28...	4	--	2	8	5	3	3600	3400	220	9	7

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT											
27...	1	180	80	100	.0	.0	.0	0	0	0	<10
NOV											
22...	2	190	90	100	.0	.0	.0	0	0	0	0
DEC											
21...	3	80	80	0	.0	.0	.0	0	0	0	0
JAN											
30...	5	50	20	30	.0	.0	.0	0	0	0	1
MAR											
06...	0	70	50	20	.0	.0	.0	0	0	0	0
MAY											
12...	3	190	150	40	.4	.4	.0	0	0	0	0
30...	3	370	110	260	.1	.1	.0	0	0	0	0
JUL											
07...	0	740	610	130	.0	.0	.0	0	0	0	0
AUG											
03...	0	640	390	250	.0	.0	.0	0	0	0	0
18...	0	300	90	210	.0	.0	.0	0	0	0	0
31...	1	240	140	100	.0	.0	.0	0	0	0	0
SEP											
28...	2	230	150	80	.0	.0	.0	0	0	0	--

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, TOTAL (UG/L) (39516)	NAPH-THA-LENES, POLY-CHLOR, TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)
OCT											
27...	0	20	0	20	10	.0	.00	.00	.0	.00	.00
NOV											
22...	0	30	0	30	10	.0	.00	.00	.0	.00	.00
DEC											
21...	0	50	20	30	10	--	--	--	--	--	--
JAN											
30...	0	30	10	20	4.9	.0	.00	.00	.0	.00	.00
MAR											
06...	0	30	10	20	16	.0	.00	.00	.0	.00	.00
MAY											
12...	0	30	10	20	6.8	.0	.00	.00	.0	.00	.00
30...	0	30	0	30	11	.0	.00	.00	.0	.00	.00
JUL											
07...	0	30	20	10	9.6	.0	.00	.00	.0	.01	.01
AUG											
03...	0	40	30	6	8.1	.0	.00	.00	.0	.00	.00
18...	0	60	0	60	7.3	.0	.00	.00	.0	.00	.00
31...	0	120	0	120	11	.0	.00	.00	.0	.00	.00
SEP											
28...	--	20	10	10	--	.0	.00	.00	.0	.00	.00

WHITE RIVER BASIN

07077790 CACHE RIVER AT 100 YDS BELOW DREDGING, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDT, TOTAL (UG/L) (39370)	DI-AZINON, TOTAL (UG/L) (39570)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDO-SULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)
OCT											
27...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
NOV											
22...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
30...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
MAR											
06...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
MAY											
12...	.01	.01	.00	--	.00	.00	.00	.00	.00	.00	.00
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUL											
07...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG											
03...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
SEP											
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL TRI-THION, TOTAL (UG/L) (39790)	MIREX, TOTAL (UG/L) (39755)	PARA-THION, TOTAL (UG/L) (39540)	PER-THANE TOTAL (UG/L) (39034)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)
OCT										
27...	.00	.00	.00	.00	--	0	.00	.01	.02	.00
NOV										
22...	.00	.00	.00	.00	--	0	.00	.00	.00	.00
DEC										
21...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	.00	.00	.00	.00	--	0	.00	.00	.02	.00
MAR										
06...	.00	.00	.00	.00	--	0	.00	.01	.01	.00
MAY										
12...	.00	.00	.00	.00	--	0	.00	.02	.02	.00
30...	.00	.00	.00	.00	--	0	.00	.02	.02	.00
JUL										
07...	.00	.00	.00	.00	--	0	.00	.10	.54	.02
AUG										
03...	.00	.00	.00	.00	--	0	.00	.05	.48	.02
18...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
31...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
SEP										
28...	.00	.00	.00	.00	.00	0	.00	.03	.08	.00

07077794 CACHE RIVER AT MOUTH, NEAR CLARENDON, AR

LOCATION.--Lat 34°42'08", long 91°19'31", in SW¼NE¼ sec.16, T.1 N., R.3 W., Monroe County, Hydrologic Unit 08020303, at mouth of Cache River. Precise location of data collection will progress upstream with dredging operation.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
OCT											
27...	1028	1028	181	7.7	17.5	--	.34	6.7	72	2.8	44
NOV											
22...	1028	1028	173	7.7	11.5	--	.24	8.4	79	1.9	50
DEC											
21...	1028	1028	160	7.7	6.5	--	.37	9.8	82	3.4	K56
JAN											
30...	1028	1028	107	7.3	.5	--	.20	11.8	84	2.6	<7
MAR											
06...	1028	1028	95	7.1	4.0	--	--	10.6	83	1.6	K47
MAY											
12...	1028	1028	170	7.6	19.5	--	.21	6.7	75	4.8	K44
30...	1028	1028	203	7.8	24.0	--	.18	4.4	54	2.6	K67
JUL											
07...	1028	1028	206	7.6	29.0	--	--	4.7	62	1.9	<11
AUG											
03...	1028	1028	269	7.8	29.0	--	--	5.2	68	2.8	K11
18...	1028	1028	323	7.8	29.5	--	.12	6.2	82	4.0	K22
31...	1028	1028	304	7.9	--	--	.18	--	--	.8	K89
SEP											
28...	1028	1028	126	7.5	21.0	52	--	5.5	63	2.1	K100

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)
OCT											
27...	270	86	4	21	8.2	3.7	8	.2	3.8	100	0
NOV											
22...	K3800	90	10	22	8.5	4.2	9	.2	3.9	98	0
DEC											
21...	1000	70	15	17	6.6	5.4	14	.3	3.7	66	0
JAN											
30...	1500	47	5	11	4.7	3.5	13	.2	3.0	51	0
MAR											
06...	K100	39	4	9.5	3.8	3.7	16	.3	2.4	43	0
MAY											
12...	320	74	6	19	6.5	2.1	6	.1	1.9	83	0
30...	600	94	4	23	8.9	4.0	8	.2	2.5	110	0
JUL											
07...	--	98	7	25	8.5	7.0	13	.3	2.7	110	0
AUG											
03...	300	120	5	28	12	8.8	14	.4	2.3	140	0
18...	K20	130	0	31	13	16	21	.6	2.6	170	0
31...	390	120	26	30	12	12	17	.5	2.6	120	0
SEP											
28...	410	50	0	13	4.3	4.6	16	.3	3.4	--	--

07077794 CACHE RIVER AT MOUTH, NEAR CLARENDON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
27...	82	3.2	6.6	4.7	.1	8.1	--	106	.14	132	.07
NOV											
22...	80	3.1	6.0	6.8	.1	7.9	116	108	.16	92	.19
DEC											
21...	54	2.1	13	7.7	.1	7.2	99	93	.13	226	.17
JAN											
30...	42	4.1	6.6	3.7	.0	4.5	--	62	.13	112	.31
MAR											
06...	35	5.5	9.5	4.2	.1	3.4	64	58	.09	47	.44
MAY											
12...	68	3.3	6.9	3.7	.1	5.2	93	87	.13	154	.33
30...	90	2.8	6.3	4.6	.1	5.4	112	109	.15	43	.11
JUL											
07...	90	4.4	9.3	6.8	.1	8.0	116	122	.16	122	.27
AUG											
03...	110	3.6	5.8	9.2	.1	9.6	155	145	.21	--	.16
18...	140	4.3	6.9	14	.1	12	177	180	.24	188	.15
31...	98	2.4	11	23	.1	11	187	161	.25	71	--
SEP											
28...	50	--	7.4	5.3	.1	9.8	83	--	.11	--	--

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	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)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)
OCT										
27...	--	.00	.73	.73	.68	.80	3.5	.21	.07	2
NOV										
22...	--	.00	.54	.54	.54	.73	3.2	.15	.06	2
DEC										
21...	--	.02	2.1	2.1	2.1	2.3	10	.29	.06	2
JAN										
30...	--	.04	.61	.65	.22	.96	4.3	.20	.05	2
MAR										
06...	--	.08	.38	.91	--	1.4	6.0	.15	.05	2
MAY										
12...	--	.14	.82	.96	.91	1.3	5.7	.24	.05	1
30...	--	.04	.72	.76	--	.87	3.9	.11	.05	2
JUL										
07...	--	.05	.68	.73	.60	1.0	4.4	.21	.03	1
AUG										
03...	--	.03	1.1	1.1	.91	1.3	5.6	.20	.03	2
18...	--	.05	.70	.75	.40	.90	4.0	.18	.03	3
31...	--	.06	1.5	1.6	1.1	--	--	.10	.05	2
SEP										
28...	.14	.01	--	--	--	--	--	.23	--	2

DATE	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV, (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
OCT										
27...	1	1	100	100	<10	<10	0	10	10	0
NOV										
22...	1	1	200	0	1	0	1	10	0	10
DEC										
21...	1	1	0	0	2	0	2	0	0	0
JAN										
30...	1	1	100	100	1	0	1	10	10	0
MAR										
06...	1	1	0	0	2	0	2	10	10	0
MAY										
12...	0	1	300	200	17	16	1	10	10	0
30...	1	1	0	0	2	0	2	0	0	0
JUL										
07...	1	0	300	200	0	0	0	0	0	0
AUG										
03...	0	2	300	60	3	0	3	0	0	0
18...	2	1	200	200	30	29	<1	0	0	0
31...	0	2	200	200	0	0	0	0	0	0
SEP										
28...	--	1	--	--	1	1	0	10	10	0

07077794 CACHE RIVER AT MOUTH, NEAR CLARENDON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)
OCT											
27...	<50	<50	0	<10	<6	4	3500	--	450	<100	<100
NOV											
22...	0	0	0	18	16	2	2100	--	100	5	4
DEC											
21...	1	1	0	21	12	9	4900	--	130	13	12
JAN											
30...	0	0	0	15	10	5	3200	--	130	4	1
MAR											
06...	2	2	0	15	5	10	3500	--	100	9	8
MAY											
12...	4	2	2	27	21	6	4500	--	60	60	57
30...	0	0	0	22	0	22	2600	--	20	14	11
JUL											
07...	0	0	0	20	16	4	3700	3700	50	8	8
AUG											
03...	0	0	0	9	5	4	3500	3400	60	23	23
18...	5	3	2	8	5	3	4500	4500	10	13	13
31...	0	0	0	11	9	2	1400	1400	40	7	7
SEP											
28...	4	--	3	13	9	4	3900	3700	190	9	7

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)
OCT											
27...	0	320	250	70	.0	.0	.0	0	0	0	<10
NOV											
22...	1	170	130	40	.0	.0	.0	0	0	0	0
DEC											
21...	1	760	750	10	.1	.1	.0	0	0	0	0
JAN											
30...	3	240	220	20	.1	.1	.0	1	1	0	0
MAR											
06...	1	100	70	30	.0	.0	.0	0	0	0	0
MAY											
12...	3	330	250	80	.1	.1	.0	0	0	0	0
30...	3	300	140	160	.1	.1	.0	0	0	0	0
JUL											
07...	0	420	260	160	.0	.0	.0	0	0	0	0
AUG											
03...	0	380	200	180	.1	.1	.0	0	0	0	0
18...	0	510	280	230	.1	.1	.0	1	1	0	0
31...	0	180	150	30	.0	.0	.0	1	1	0	0
SEP											
28...	2	300	220	80	.0	.0	.0	0	0	0	--

DATE	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PCB, TOTAL (UG/L) (39516)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	CHLORDANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)
OCT											
27...	0	30	10	20	5.8	.0	.00	.00	.0	.00	.00
NOV											
22...	0	30	10	20	5.2	.0	.00	.00	.0	.00	.00
DEC											
21...	0	50	30	20	6.9	.0	.00	.00	.0	.00	.00
JAN											
30...	0	40	20	20	4.6	.1	.00	.00	.0	.00	.00
MAR											
06...	0	20	0	20	9.5	.0	.00	.00	.0	.00	.00
MAY											
12...	0	30	30	0	12	.0	.00	.00	.0	.00	.00
30...	0	30	0	30	5.5	.0	.00	.00	.0	.00	.00
JUL											
07...	0	30	20	10	6.2	.0	.00	.00	.0	.00	.00
AUG											
03...	0	30	10	20	5.5	.0	.00	.00	.0	.00	.00
18...	0	80	0	80	7.1	.0	.00	.00	.0	.00	.00
31...	0	100	0	100	8.5	.0	.00	.09	.0	.00	.00
SEP											
28...	--	20	20	0	--	.0	.00	.00	.0	.00	.00

07077794 CACHE RIVER AT MOUTH, NEAR CLARENDON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDT, TOTAL (UG/L) (39370)	DI-AZINON, TOTAL (UG/L) (39570)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDO-SULFAN, TOTAL (UG/L) (39388)	ENDRIN, TOTAL (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)
OCT											
27...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
NOV											
22...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
DEC											
21...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
JAN											
30...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
MAR											
06...	.01	.00	.01	--	.00	.00	.00	.00	.00	.00	.00
MAY											
12...	.00	.00	.00	--	.00	.00	.00	.00	.00	.00	.00
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUL											
07...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG											
03...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP											
28...	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL PARA-THION, TOTAL (UG/L) (39600)	METHYL TRI-THION, TOTAL (UG/L) (39790)	MIREX, TOTAL (UG/L) (39755)	PARA-THION, TOTAL (UG/L) (39540)	PER-THANE TOTAL (UG/L) (39034)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)
OCT										
27...	.00	.00	.00	.00	--	0	.00	.00	.02	.00
NOV										
22...	.00	.00	.00	.00	--	0	.00	.00	.00	.00
DEC										
21...	.00	.00	.00	.00	--	0	.00	.00	.00	.00
JAN										
30...	.00	.00	.00	.00	--	0	.00	.00	.02	.00
MAR										
06...	.00	.00	.00	.00	--	0	.00	.01	.01	.00
MAY										
12...	.00	.00	.00	.00	--	0	.00	.03	.03	.00
30...	.00	.00	.00	.00	--	0	.00	--	--	--
JUL										
07...	.00	.00	.00	.00	--	0	.00	.05	.33	.01
AUG										
03...	.01	.00	.00	.00	--	0	.00	.06	.22	.00
18...	.01	.00	.00	.00	--	0	.00	.00	.00	.00
31...	.00	.00	.00	.00	--	0	.00	.10	.29	.01
SEP										
28...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

07077800 WHITE RIVER AT CLARENDON, AR

LOCATION.--Lat 34°41'08", long 91°18'55", in W½ sec.22, T.1 N., R.3 W., Monroe County, Hydrologic Unit 08020303, at St. Louis Southwestern Railroad bridge at Clarendon, 1.1 mi (1.8 km) downstream from Cache River, and at mile 100.1 (161.1 km).

DRAINAGE AREA.--25,555 mi^2 (66,187 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. Gage-height record since 1884 are contained in reports of Mississippi River Commission and National Weather Service. Intermittent records of discharge since 1879 and daily discharges since Jan 1, 1928 in reports of Mississippi River Commission.

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

GAGE.--Water-stage recorder. Datum of gage is 139.91 ft (42.645 m) National Geodetic Vertical Datum of 1929, or 140.02 ft (42.678 m) above mean Gulf level. Prior to Sept. 16, 1970, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Norfork Lake since 1943 (see station 07059500), by Clearwater Lake (Missouri) since 1948, by Bull Shoals Lake since July 24, 1951, 318 mi (512 km) upstream (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), by Greers Ferry Lake since Mar. 30, 1962 (see station 07075900), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years, 29,720 ft^3/s (842 m^3/s), 21,530,000 acre-ft/yr (26,500 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 299,000 ft^3/s (8,468 m^3/s) Apr. 23, 1945; maximum gage height, 39.10 ft (11.921 m) Apr. 24, 1945; minimum discharge, 2,900 ft^3/s (82 m^3/s) Sept. 4, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1874, 43.3 ft (13.20 m) Apr. 23, 1927.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 93,400 ft^3/s (2.640 m^3/s) Apr. 9, gage height, 29.44 ft (8.973 m); minimum, 6,540 ft^3/s (185 m^3/s) Jan. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15000	13700	6700	6600	14000	13200	40400	30500	13700	17600	10200	12900
2	15500	13800	6800	6500	14800	13100	42800	29400	12400	17000	10000	13000
3	15700	13400	7800	6800	14500	13300	46400	27600	11400	16400	9700	13100
4	15800	13000	9500	7500	13900	15800	50200	26200	10700	15300	9300	13100
5	16300	13200	10500	8200	13300	20200	58400	25500	10800	14300	9000	13100
6	16700	13900	10800	8400	12500	24800	71500	25300	11000	13500	8600	13000
7	16700	14800	10600	8500	11800	28700	81800	24900	11000	12900	8400	12800
8	16100	15200	9900	9000	11000	31900	88700	24200	10800	12200	8200	12300
9	14800	14600	9500	9700	10300	34000	91500	23900	10700	11800	8000	11900
10	13000	14000	8600	10400	9700	32700	92400	23600	9900	11600	8000	11700
11	11500	13800	8800	11200	9600	30400	89900	22900	9400	11900	8100	11500
12	11100	13700	9600	12400	10400	29400	86400	21600	9000	11500	8000	11200
13	10900	13600	10300	14300	11500	29500	82100	20200	9300	10800	8000	11000
14	11000	13300	10500	16900	12000	30100	77500	19200	9400	10100	8000	11700
15	11100	12900	10400	18600	11900	30800	73000	18300	9500	9900	7900	12300
16	11600	12400	10200	18900	11600	31200	67100	17700	9500	10100	7900	12300
17	12400	12100	10000	18400	11200	31400	62800	17600	9100	10300	8300	12200
18	12500	12000	9600	17000	11000	32400	59400	18400	8800	10300	8800	12400
19	12100	11900	9100	16100	11800	33100	55100	19000	8500	10100	9400	12800
20	11600	11600	8700	16600	12900	33100	51700	19600	8300	9900	9900	12800
21	11600	10900	8300	17500	13500	32400	48400	19900	8300	10200	10300	12600
22	12200	10000	8100	17500	13200	31000	44400	19600	8100	10400	10700	12300
23	13700	9200	7700	16800	12600	29100	40800	19000	8100	10300	11400	12100
24	15400	8400	7700	15800	12000	26900	38500	17900	8600	10100	12200	12400
25	16400	8100	8300	14600	12100	24800	36300	16600	9000	9700	13000	14600
26	16700	8400	8800	13600	12600	23200	35400	15400	9600	10300	13200	17900
27	16200	8700	8900	12700	12800	21900	34700	15300	10700	11500	13200	19700
28	15600	8700	8500	12100	12900	21600	33900	16100	15400	12100	13000	20600
29	14800	8400	7800	12100	---	25500	32800	16400	18900	12000	12800	22400
30	14300	7600	7400	12300	---	32200	31500	15700	18700	11500	12400	25000
31	13800	---	7000	12800	---	37200	---	14800	---	10800	12500	---
TOTAL	432100	355300	276400	399800	341400	844900	1745800	642300	318600	366400	308400	416700
MEAN	13940	11840	8916	12900	12190	27250	58190	20720	10620	11820	9948	13890
MAX	16700	15200	10800	18900	14800	37200	92400	30500	18900	17600	13200	25000
MIN	10900	7600	6700	6500	9600	13100	31500	14800	8100	9700	7900	11000
AC-FT	857100	704700	548200	793000	677200	1676000	3463000	1274000	631900	726800	611700	826500

CAL YR 1976	TOTAL	7522000	MEAN	20550	MAX	45100	MIN	6700	AC-FT	14920000
WTR YR 1977	TOTAL	6448100	MEAN	17670	MAX	92400	MIN	6500	AC-FT	12790000

07077800 WHITE RIVER AT CLARENDON, AR--Continued
(National stream-quality accounting station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948 to 1967, October 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1947 to September 1965, October 1974 to current year.
WATER TEMPERATURES: October 1948 to September 1965, October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 544 micromhos Nov. 12, 1955; minimum 61 micromhos Feb. 3, 1950.
WATER TEMPERATURES: Maximum, 32.0°C on several days during June and July 1954; minimum, 0.0°C Jan. 15, 1962, Jan. 26-28, 1963, Jan 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 340 micromhos Aug. 13; minimum, 96 micromhos Jan. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
OCT												
28...	1028	1028	203	7.7	15.5	--	9.0	93	K7	230	110	11
NOV												
22...	1028	1028	217	7.9	11.5	--	9.3	88	310	K3100	100	5
DEC												
21...	1028	1028	--	--	--	--	--	--	--	--	--	--
21...	1028	1028	211	7.6	8.0	--	10.2	89	K11	350	100	5
JAN												
30...	1028	1028	155	7.2	1.5	--	12.3	90	K87	--	74	8
MAR												
06...	1028	1028	199	7.9	.5	--	11.4	81	K20	88	92	10
APR												
18...	1028	1028	240	7.9	17.0	--	7.3	78	K27	--	130	12
MAY												
30...	1028	1028	233	7.1	22.5	33	6.7	79	K7	K520	120	14
JUL												
07...	1028	1028	280	8.2	27.5	34	7.9	99	K27	K20	140	19
AUG												
03...	1028	1028	292	8.0	30.0	27	8.2	109	K7	K33	150	7
31...	1028	1028	297	7.9	23.5	32	7.2	87	K93	190	140	24
SEP												
28...	1028	1028	218	8.1	20.0	24	7.9	90	K56	120	100	3

DATE	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT											
28...	28	9.6	3.0	6	.1	1.9	120	0	98	3.8	9.8
NOV											
22...	25	10	3.1	6	.1	2.2	120	0	98	2.4	6.5
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	25	10	2.5	5	.1	1.9	120	0	98	4.8	6.9
JAN											
30...	17	7.7	2.9	8	.1	1.9	81	0	66	8.2	5.5
MAR											
06...	21	9.5	2.4	5	.1	1.4	100	0	82	2.0	8.7
APR											
18...	31	12	1.6	3	.1	1.7	140	0	110	2.8	7.2
MAY											
30...	30	12	2.5	4	.1	1.6	--	--	110	--	5.6
JUL											
07...	34	13	3.9	6	.1	1.7	--	--	125	--	7.3
AUG											
03...	34	15	3.6	5	.1	1.6	--	--	140	--	6.1
31...	33	15	7.6	10	.3	1.8	--	--	120	--	24
SEP											
28...	26	9.2	3.8	7	.2	2.3	--	--	100	--	7.2

07077800 WHITE RIVER AT CLARENDON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT												
28...	4.4	.1	5.6	116	122	.16	.09	.00	--	--	--	.19
NOV												
22...	5.2	.1	6.1	127	117	.17	.21	.00	--	--	--	.49
DEC												
21...	4.3	.1	6.4	124	116	.17	.22	.00	--	--	--	.93
JAN												
30...	3.3	.0	4.6	85	83	.12	.30	.03	.84	.87	.35	.52
MAR												
06...	4.0	.1	4.0	114	100	.16	.32	.07	1.6	1.7	.00	1.7
APR												
18...	3.2	.1	2.2	124	128	.17	.14	.03	.30	.33	.17	.16
MAY												
30...	3.9	.1	4.4	125	--	.17	.14	.04	--	--	--	.61
JUL												
07...	5.6	.0	4.8	148	143	.20	.14	.00	.46	.46	.27	.19
AUG												
03...	5.0	.1	5.8	154	155	.21	.03	.00	.43	.43	.18	.25
31...	7.5	.1	6.7	163	168	.22	.26	.01	.50	.51	.32	.19
SEP												
28...	5.2	.1	7.0	124	121	.17	.08	.01	.55	.56	.20	.36

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)
OCT												
28...	--	--	.07	.03	1	1	0	100	0	100	<10	<8
NOV												
22...	--	--	.12	.04	--	--	--	--	--	--	--	--
DEC												
21...	--	--	.09	.02	--	--	--	--	--	--	--	--
JAN												
30...	1.2	5.2	.11	.06	1	0	1	0	0	0	1	1
MAR												
06...	2.0	8.9	.11	.04	--	--	--	--	--	--	--	--
APR												
18...	.47	2.1	.07	--	3	2	1	100	100	0	1	1
MAY												
30...	--	--	.05	.02	--	--	--	--	--	--	--	--
JUL												
07...	.60	2.7	.07	.03	0	0	0	300	100	200	2	0
AUG												
03...	.46	2.0	.06	.01	--	--	--	--	--	--	--	--
31...	.77	3.4	.10	.03	--	--	--	--	--	--	--	--
SEP												
28...	.64	2.8	.11	.03	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)
OCT												
28...	2	10	0	10	<50	<50	0	<10	<7	3	1000	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	0	20	20	0	0	0	0	20	15	5	1200	--
MAR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	0	10	10	0	2	2	0	5	4	1	760	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	2	10	0	10	1	0	1	22	13	9	1400	1400
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

07077800 WHITE RIVER AT CLARENDON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)
OCT												
28...	50	<100	<100	0	110	80	30	.0	.0	.0	0	0
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	120	7	6	1	60	40	20	.1	.1	.0	1	1
MAR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	50	18	17	1	110	90	20	.0	.0	.0	0	0
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	10	52	51	1	160	110	50	.0	.0	.0	0	0
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG) (01076)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	PCB, TOTAL (UG/L) (39516)
OCT											
28...	0	<10	<10	0	30	20	8	--	4.0	.6	--
NOV											
22...	--	--	--	--	--	--	--	--	--	--	--
DEC											
21...	--	--	--	--	--	--	--	4.7	--	--	--
JAN											
30...	0	1	1	0	40	10	30	--	4.0	.7	ND
MAR											
06...	--	--	--	--	--	--	--	4.3	--	--	--
APR											
18...	0	0	0	0	--	--	--	--	6.1	.9	--
MAY											
30...	--	--	--	--	--	--	--	4.5	--	--	ND
JUL											
07...	0	0	0	0	20	0	20	--	3.4	1.0	--
AUG											
03...	--	--	--	--	--	--	--	3.5	--	--	ND
31...	--	--	--	--	--	--	--	3.0	--	--	--
SEP											
28...	--	--	--	--	--	--	--	5.9	--	--	--

DATE	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39333)	ATRA-ZINE, TOTAL (UG/L) (39630)	CHLOR-DANE, TOTAL (UG/L) (39350)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39351)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39363)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39373)
OCT												
28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG												
03...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

07077800 WHITE RIVER AT CLARENDON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)
OCT												
28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
30...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND
AUG												
03...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL (UG/L) (39540)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
22...	--	--	--	--	--	--	--	--	--	--	--
DEC											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
30...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	ND	ND	--	ND	ND	ND	--	ND	--	ND	--
AUG											
03...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL COULSON COND. (UG/L) (39025)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
28...	--	--	--	--	--	--	--	--	--	101	33
NOV											
22...	--	--	--	--	--	--	--	--	--	128	90
DEC											
21...	--	--	--	--	--	--	--	--	--	78	89
JAN											
30...	--	ND	ND	--	ND	--	ND	ND	ND	85	59
APR											
18...	--	--	--	--	--	--	--	--	--	56	73
MAY											
30...	ND	ND	ND	ND	--	ND	--	--	--	58	87
AUG											
03...	--	ND	ND	--	ND	--	--	--	--	79	84
31...	--	--	--	--	--	--	--	--	--	121	88
SEP											
28...	--	--	--	--	--	--	--	--	--	100	72

07077800 WHITE RIVER AT CLARENDON, AR--CONTINUED

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

PHYTOPLANKTON

DATE	MAY 30,78		JUL 7,78		SEP 28,78	
TIME	1550		1115		1500	
TOTAL CELLS/ML	1700		32000		33000	
DIVERSITY: DIVISION	1.2		1.1		1.4	
.CLASS	1.2		1.1		1.4	
..ORDER	1.9		1.6		1.6	
...FAMILY	2.6		1.7		1.9	
....GENUS	3.1		2.2		2.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....DICHOTOMOCOCCUS	--	-	2100	6	--	-
...CHARACIACEAE						
....SCHROEDERIA	14	1	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	610	2
...MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	310	1
....MICRACTINIUM	290#	17	--	-	920	3
...OOCYSTACEAE						
....ANKISTRODESMUS	43	2	200	1	--	-
....CHLORELLA	100	6	--	-	--	-
....CHODATELLA	--	-	--	-	460	1
....KIRCHNERIELLA	29	2	200	1	610	2
....OOCYSTIS	--	-	--	-	610	2
....QUADRIGULA	--	-	--	-	920	3
....WESTELLA	57	3	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	1200	4	1800	6
....SCENEDESMUS	160	9	590	2	460	1
..TETRASPORALES						
...PALMELLACEAE						
....SPHAEROCYSTIS	57	3	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	*	0	310	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	130	7	2700	8	4300	13
....MELOSIRA	310#	18	200	1	610	2
....SKELETONEMA	--	-	--	-	15000#	46
..PENNALES						
...GOMPHONEMATACEAE						
....GOMPHONEMA	460#	27	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	--	-	340	1	610	2
.XANTHOPHYCEAE						
..HETEROCOCCALES						
...CENTRITRACTACEAE						
....CENTRITRACTUS	14	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONIDALES						
...CRYPTOMONODACEAE						
....CRYPTOMONAS	--	-	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROCCOCCALES						
...CHROCCOCCACEAE						
....AGMENELLUM	--	-	19000#	58	4900#	15
....ANACYSTIS	--	-	2700	8	--	-
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	2800	9	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	14	1	--	-	--	-
....PHACUS	29	2	--	-	--	-
....TRACHELOMONAS	14	1	250	1	310	1

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

07077800 WHITE RIVER AT CLARENDON, AR--CONTINUED

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
DEC. 21	29	4.57	4.09	.480	.600	.000	.800	POLYETHYLENE STRIP

07077800 WHITE RIVER AT CLARENDON, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	253	194	---	111	200	166	235	246	261	294	268
2	159	291	194	---	115	203	174	239	212	267	261	265
3	172	281	180	---	---	194	169	232	214	256	291	288
4	---	241	177	---	125	191	186	222	209	245	280	286
5	186	206	183	174	136	187	188	209	222	259	291	245
6	172	242	175	---	186	187	---	225	235	261	304	221
7	178	225	179	176	---	146	202	215	239	265	314	---
8	176	221	180	182	147	152	197	193	219	278	309	248
9	169	211	181	---	188	149	213	179	229	269	319	214
10	178	205	170	158	196	148	215	177	253	280	333	268
11	203	201	158	---	215	130	205	161	208	283	337	249
12	173	202	170	177	217	126	---	154	220	288	338	258
13	209	210	163	---	232	129	218	148	219	290	340	255
14	209	226	163	---	207	143	222	147	214	280	325	244
15	194	239	---	175	212	127	225	134	204	296	329	242
16	190	241	163	158	203	152	234	150	203	277	322	237
17	214	219	161	---	219	---	236	167	218	288	320	236
18	234	221	167	152	226	130	233	181	260	277	316	247
19	235	221	192	125	214	136	244	185	246	286	321	240
20	238	217	195	---	207	132	230	191	---	275	331	238
21	244	215	192	130	197	149	232	203	262	252	---	231
22	238	215	172	---	202	154	232	208	273	237	305	---
23	240	210	176	---	190	154	230	215	272	251	315	---
24	220	183	186	---	201	146	232	219	286	240	315	241
25	225	---	198	---	183	146	237	216	288	254	313	232
26	234	199	187	108	192	146	238	---	292	257	295	191
27	230	200	185	---	207	147	238	224	285	260	297	191
28	203	204	184	102	201	152	241	218	272	263	277	---
29	197	206	180	---	---	136	240	209	266	279	273	---
30	252	224	183	96	---	141	242	222	254	253	313	217
31	260	---	186	---	---	149	---	229	---	279	302	---
MEAN	207	222	179	147	190	153	219	197	242	268	309	242

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	17.0	---	---								
2	24.0	16.0	---	---								
3	25.0	16.0	---	---								
4	---	17.0	---	---								
5	22.0	17.0	---	5.0								
6	22.0	17.0	---	---								
7	21.0	17.0	---	5.5								
8	20.0	17.0	---	5.0								
9	20.0	17.0	6.0	---								
10	20.0	17.0	6.0	5.0								
11	16.0	16.0	6.0	---								
12	24.0	16.0	6.5	5.0								
13	20.0	14.0	7.0	---								
14	16.0	14.0	7.0	---								
15	16.0	12.0	---	---								
16	20.0	13.0	7.0	2.0								
17	16.0	12.0	7.0	---								
18	16.0	12.0	8.0	1.0								
19	16.0	12.0	8.5	1.0								
20	16.0	12.0	8.0	---								
21	16.0	12.0	7.5	1.0								
22	16.0	12.0	7.0	---								
23	16.0	12.0	7.0	---								
24	---	12.0	7.0	---								
25	16.0	---	7.0	---								
26	16.0	9.0	7.0	---								
27	16.0	9.0	7.0	---								
28	17.0	9.0	6.0	---								
29	17.0	9.0	6.0	---								
30	17.0	---	6.0	---								
31	17.0	---	6.0	---								
MEAN	18.5	14.0	7.0	3.5								

07077820 WHITE RIVER AT ST. CHARLES, AR

LOCATION.--Lat 34°22'35", long 91°07'30", in SW¼NE¼ sec.4, T.4 S., R.1 W., Arkansas County, Hydrologic Unit 08020303, at St. Charles Ferry on west bank at State Highway 1, and 0.4 mi (0.6 km) east of St. Charles.

DRAINAGE AREA.--25,809 mi² (66,845 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
10...	9827	9827	176	7.8	19.0	50	8.6	70	1.6	40	--
NOV											
07...	9827	9827	240	--	14.0	10	8.3	87	2.0	130	--
DEC											
06...	9827	9827	190	7.4	8.0	40	9.9	83	.9	110	--
JAN											
09...	9827	9827	235	8.1	4.0	25	11.5	88	1.9	67	100
FEB											
07...	9827	9827	192	7.7	1.0	30	11.0	77	1.5	4	--
MAR											
06...	9827	9827	193	7.8	5.0	40	11.9	93	2.7	13	--
APR											
03...	9827	9827	196	7.8	15.0	30	9.0	88	3.6	24	69
MAY											
01...	9827	9827	252	7.6	17.0	15	8.0	82	1.6	90	--
30...	9827	9827	232	7.8	25.0	20	6.8	81	1.9	40	--
JUN											
26...	9827	9827	296	7.8	26.0	20	8.0	98	3.7	65	--
JUL											
17...	9827	9827	279	8.3	28.0	10	8.9	113	5.5	24	150
AUG											
28...	9827	9827	287	8.4	28.0	5	--	105	--	33	--
SEP											
25...	9827	9827	253	8.0	22.0	15	7.9	90	3.1	44	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
10...	--	13	2.7	--	81	1.0	5.5	--	79	.19
NOV										
07...	--	--	--	--	--	4.0	6.0	131	--	.26
DEC										
06...	--	--	--	--	--	7.0	6.5	124	59	.20
JAN										
09...	21	12	2.5	1.5	110	5.0	5.5	138	48	.19
FEB										
07...	--	--	--	--	--	2.0	5.0	118	17	.28
MAR										
06...	--	--	--	--	--	2.0	5.5	128	59	.29
APR										
03...	13	7.9	1.6	1.8	88	6.0	4.0	132	35	.15
MAY										
01...	--	--	--	--	--	1.0	5.0	148	27	--
30...	--	--	--	--	--	5.0	5.5	142	33	.20
JUN										
26...	--	--	--	--	--	2.0	7.5	176	112	.29
JUL										
17...	36	14	4.7	1.9	150	<1.0	12	164	110	.14
AUG										
28...	--	--	--	--	--	1.0	7.5	164	--	.01
SEP										
25...	--	--	--	--	--	4.0	6.0	142	69	.13

07077820 WHITE RIVER AT ST. CHARLES, AR—CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
10...	<.05	.20	.08	.12	<10	6	<10	2400	<10	160
NOV										
07...	<.05	.27	.10	.13	--	--	--	--	--	--
DEC										
06...	<.05	.21	.09	.12	--	--	--	--	--	--
JAN										
09...	<.05	.20	<.05	.08	<10	<5	<20	1400	<10	68
FEB										
07...	.01	.29	.04	.07	--	--	--	--	--	--
MAR										
06...	.01	.30	.08	.11	--	--	--	--	--	--
APR										
03...	.01	.16	.07	.10	<10	8	<20	2000	<10	68
MAY										
01...	<.01	.16	.05	.08	--	--	--	--	--	--
30...	.01	.21	.06	.21	--	--	--	--	--	--
JUN										
26...	.01	.30	.09	.13	--	--	--	--	--	--
JUL										
17...	.01	.15	.06	.14	<10	<5	<20	1500	<10	140
AUG										
28...	<.01	.01	.02	.11	--	--	--	--	--	--
SEP										
25...	<.01	.13	.04	.13	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
10...	--	<10	--	--	--	--	--	--	--	--
NOV										
07...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	<10	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	10	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
26...	--	--	--	--	--	--	--	--	--	--
JUL										
17...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
28...	--	--	--	--	--	--	--	--	--	--
SEP										
25...	--	--	--	--	--	--	--	--	--	--

07077950 BIG CREEK AT POPLAR GROVE, AR

LOCATION.--Lat 34°33'20", long 90°50'44", in sec.1, T.2 S., R.2 E., Phillips County, Hydrologic Unit 08020304, near right bank on downstream side of bridge on U.S. Highway 49, at Poplar Grove, 900 ft (274 m) upstream from Crooked Creek, and 3.9 mi (6.3 km) east of Marvel.

DRAINAGE AREA.--448 mi^2 (1,160 km^2), includes that of Crooked Creek. Area at site used prior to September 30, 1972, 459 mi^2 (1,189 km^2).

PERIOD OF RECORD.--October 1970 to current year. Prior to September 30, 1972, published as 07077952 Big Creek near Poplar Grove. Gage-height record and results of discharge measurements at same site since August 1954 are contained in reports of Corps of Engineers.

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

GAGE.--Water-stage recorder. Datum of gage is 143.00 ft (43.586 m) National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 6.1 mi (9.8 km) downstream at same datum. Prior to February 6, 1978, auxiliary water-stage recorder at site 8.7 (19.0 km) downstream at same datum. October 1970 to September 1972, the downstream site was used as the base gage.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 550 ft^3/s (15.6 m^3/s), 398,500 acre-ft/yr (491 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft^3/s (167 m^3/s) Apr. 23, 1973, gage height, 31.74 ft (9.674 m); no flow June 18-27, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1954, 31.74 ft (9.674 m) Apr. 23, 1973, discharge, 5,910 ft^3/s (167 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) May 13, maximum gage height, 29.69 ft (9.050 m) Jan 26; minimum discharge, 18 ft^3/s (0.51 m^3/s) Aug. 4, 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	958	24	930	118	1980	535	222	149	467	377	32	239
2	1040	30	950	100	1860	521	175	207	382	360	24	258
3	1040	70	930	82	1740	629	137	278	290	329	20	274
4	1030	80	850	69	1610	636	111	411	216	282	18	293
5	1050	67	760	59	1510	577	98	450	176	225	18	317
6	1060	47	700	54	1440	543	84	469	158	174	19	341
7	1070	37	670	50	1400	532	70	847	158	132	21	360
8	1130	34	620	419	1370	564	60	1620	197	100	22	377
9	1230	35	620	620	1330	600	52	2290	263	78	23	383
10	1190	40	710	465	1280	628	46	2530	249	72	26	384
11	1120	46	700	374	1220	664	57	2620	242	72	30	384
12	1060	49	680	392	1100	710	60	2660	256	63	52	388
13	990	47	800	473	1060	788	62	2790	272	52	58	390
14	927	42	898	552	1050	1270	52	2730	279	41	77	470
15	863	37	925	590	975	1430	45	2570	270	31	130	648
16	798	349	850	706	902	1330	54	2410	248	25	163	697
17	731	663	774	1100	842	1220	87	2270	216	21	189	660
18	663	594	717	1210	797	1130	103	2120	178	20	214	590
19	597	454	658	1190	762	1050	99	1970	180	23	239	518
20	533	368	599	1180	735	976	86	1790	175	42	266	464
21	470	538	546	1170	714	916	73	1610	125	78	279	420
22	406	809	499	1140	694	860	61	1590	100	104	283	385
23	335	780	459	1000	676	795	60	1470	146	116	282	358
24	254	750	419	1200	659	729	85	1330	265	118	274	331
25	185	700	380	2020	641	662	107	1210	322	111	254	305
26	131	640	337	2300	619	598	101	1110	314	98	228	279
27	90	610	287	2290	591	539	85	985	327	85	199	251
28	61	580	240	2270	566	475	71	869	350	70	172	221
29	43	680	202	2220	---	413	61	762	369	62	155	191
30	34	800	168	2160	---	350	55	662	379	55	176	161
31	28	---	142	2080	---	283	---	564	---	44	218	---
TOTAL	21117	10000	19020	29653	30123	22953	2519	45343	7569	3460	4161	11337
MEAN	681	333	614	957	1076	740	84.0	1463	252	112	134	378
MAX	1230	809	950	2300	1980	1430	222	2790	467	377	283	697
MIN	28	24	142	50	566	283	45	149	100	20	18	161
AC-FT	41890	19830	37730	58820	59750	45530	5000	89940	15010	6860	8250	22490

CAL YR 1977 TOTAL 142795.9 MEAN 391 MAX 1960 MIN 2.6 AC-FT 283200
WTR YR 1978 TOTAL 207255.0 MEAN 568 MAX 2790 MIN 18 AC-FT 411100

07077960 BIG CREEK NEAR WATKINS CORNER, AR

LOCATION.--Lat 34°24'48", long 90°56'42", in NE¼SE¼ sec.24, T.3 S., R.1 E., Phillips County, Hydrologic Unit 08020304, at bridge on State Highway 318, 3.5 mi (5.6 km) upstream from Little Cypress Creek, and 3.8 mi (6.1 km) south of Watkins Corner.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	231	7.6	16.0	45	6.8	68	1.4	33	94
24...	9827	9827	--	--	--	--	--	--	--	--	--
NOV											
21...	9827	9827	130	7.0	11.0	200	6.1	55	4.6	1500	--
DEC											
19...	9827	9827	136	7.4	11.0	150	8.0	72	1.3	180	--
JAN											
23...	9827	9827	79	6.7	1.0	200	9.8	69	4.1	20	26
FEB											
21...	9827	9827	115	7.3	2.0	--	11.9	86	3.3	27	--
MAR											
20...	9827	9827	101	7.1	13.0	300	8.3	78	2.2	27	--
APR											
17...	9827	9827	318	7.7	21.0	30	9.5	106	4.8	10	120
MAY											
15...	9827	9827	79	6.8	20.0	240	5.3	58	1.2	350	--
JUN											
12...	9827	9827	201	7.4	25.0	150	4.1	49	2.4	40	--
20...	9827	9827	42	6.9	29.0	50	8.3	106	2.2	--	--
JUL											
11...	9827	9827	134	7.1	28.0	300	2.7	34	1.9	--	--
AUG											
14...	9827	9827	454	8.0	26.0	15	6.0	73	3.0	220	--
SEP											
07...	9827	9827	--	--	--	--	--	--	--	--	--
11...	9827	9827	340	7.8	24.0	30	6.4	75	1.9	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
24...	21	9.1	11	6.1	90	.0	13	151	45	.12
24...	--	--	--	--	--	--	--	--	--	--
NOV										
21...	--	--	--	--	--	--	8.0	207	199	.28
DEC										
19...	--	--	--	--	--	7.0	9.5	158	56	.15
JAN										
23...	2.0	3.0	4.0	4.1	26	6.0	7.5	158	--	.34
FEB										
21...	--	--	--	--	--	--	7.0	128	33	.32
MAR										
20...	--	--	--	--	--	9.0	6.0	202	96	.27
APR										
17...	24	13	16	4.8	140	12	12	190	--	.00
MAY										
15...	--	--	--	--	--	4.0	5.5	249	168	.31
JUN										
12...	--	--	--	--	--	8.0	7.0	170	104	.50
20...	--	--	--	--	--	5.0	4.0	48	8	.03
JUL										
11...	1.0	4.0	8.8	1.9	53	1.0	--	232	--	.23
AUG										
14...	--	--	--	--	--	8.0	16	265	58	.32
SEP										
07...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	5.0	19	211	55	--

07077960 BIG CREEK NEAR WATKINS CORNER, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
24...	<.05	.13	--	.16	<10	<5	<10	2100	20	360
24...	--	--	--	--	--	--	--	--	--	--
NOV										
21...	--	.37	.44	.78	<10	--	30	11500	--	570
DEC										
19...	<.05	.19	.24	.38	<10	--	20	5000	--	250
JAN										
23...	<.05	.38	.28	.28	<10	<5	<20	4600	10	80
FEB										
21...	.02	.34	.17	.26	<10	--	<20	3000	--	150
MAR										
20...	.06	.33	.35	--	<10	--	20	9000	--	250
APR										
17...	.02	.02	.08	--	<10	7	<20	1600	80	550
MAY										
15...	.22	.53	.81	.74	<10	--	20	10800	--	780
JUN										
12...	.18	.68	.37	.37	<10	--	<20	6400	--	1100
20...	.01	.04	.05	.06	--	--	--	--	--	--
JUL										
11...	.01	.24	.06	--	<10	--	50	21000	50	1400
AUG										
14...	.04	.35	.13	--	<10	--	<20	2200	--	600
SEP										
07...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	.16	<10	--	<20	2000	--	420

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
24...	--	<10	--	--	--	--	--	--	--	--
24...	--	--	.00	.00	.00	.00	.00	.00	.00	0
NOV										
21...	--	60	--	--	--	--	--	--	--	--
DEC										
19...	--	20	--	--	--	--	--	--	--	--
JAN										
23...	--	20	--	--	--	--	--	--	--	--
FEB										
21...	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR										
20...	--	30	--	--	--	--	--	--	--	--
APR										
17...	--	20	--	--	--	--	--	--	--	--
MAY										
15...	--	50	--	--	--	--	--	--	--	--
JUN										
12...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
20...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	190	.00	.00	.00	.00	.00	.00	.00	2
AUG										
14...	--	10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
07...	--	--	.00	.00	.00	.00	.00	.00	.00	0
11...	--	30	--	--	--	--	--	--	--	--

07078285 WHITE RIVER AT LOCK AND DAM 1, NEAR NADY, AR

LOCATION.--Lat 34°01'35", long 91°11'08", in sec.1, T.8 S., R.2 W., Arkansas County, Hydrologic Unit 08020303, at Lock and Dam 1, 3.4 mi (5.5 km) northeast of Nady.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
10...	9827	9827	185	7.9	19.0	50	7.1	76	1.8	30	--	--
NOV												
07...	9827	9827	225	--	18.0	5	9.1	96	3.6	32	--	--
DEC												
06...	9827	9827	187	7.5	8.0	50	10.0	84	1.4	270	--	--
JAN												
09...	9827	9827	220	8.0	4.0	25	11.9	91	2.0	30	98	19
23...	9827	9827	191	7.5	3.0	20	12.6	93	3.1	--	80	15
FEB												
07...	9827	9827	153	7.5	1.0	50	10.9	77	1.4	8	--	--
MAR												
06...	9827	9827	201	7.8	5.0	50	11.9	93	2.7	7	--	--
APR												
03...	9827	9827	178	7.6	15.0	30	8.3	81	5.7	9	66	13
24...	9827	9827	--	--	--	--	--	--	--	40	--	--
MAY												
01...	9827	9827	236	7.5	17.0	20	8.2	85	5.7	140	--	--
30...	9827	9827	210	7.6	25.0	35	5.4	64	2.8	13	--	--
JUN												
26...	9827	9827	270	7.7	26.0	15	8.0	98	3.8	--	--	--
JUL												
17...	9827	9827	321	7.9	28.0	10	9.5	120	4.4	--	140	39
AUG												
28...	9827	9827	306	8.5	28.0	5	--	116	--	20	--	--
SEP												
25...	9827	9827	221	7.9	22.0	15	8.1	92	2.2	30	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
10...	13	3.5	--	81	1.0	6.0	--	63	.20	<.05	.21
NOV											
07...	--	--	--	--	4.0	6.5	123	--	.18	<.05	.19
DEC											
06...	--	--	--	--	8.0	7.0	127	60	.21	<.05	.22
JAN											
09...	11	3.0	1.6	100	6.0	4.0	143	88	.22	<.05	.23
23...	10	2.6	1.7	85	4.0	6.5	119	--	.25	<.05	.26
FEB											
07...	--	--	--	--	3.0	6.0	103	14	.29	.01	.30
MAR											
06...	--	--	--	--	3.0	6.5	141	80	.30	.01	.31
APR											
03...	7.6	2.9	2.0	75	8.0	5.5	121	15	.01	.01	.02
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	3.0	5.5	132	62	--	<.01	.12
30...	--	--	--	--	5.0	5.5	134	9	.16	.01	.17
JUN											
26...	--	--	--	--	3.0	6.0	161	130	.57	.02	.59
JUL											
17...	9.0	76	4.2	110	<1.0	9.0	166	60	.12	.02	.14
AUG											
28...	--	--	--	--	4.0	7.5	185	--	<.01	.01	.01
SEP											
25...	--	--	--	--	5.0	7.5	130	54	.16	.01	.17

07078285 WHITE RIVER AT LOCK AND DAM 1, NEAR NADY, AR—CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
10...	.05	.75	.80	1.0	4.5	.12	<10	<5	<10	2400	10
NOV											
07...	.11	--	--	--	--	.08	--	--	--	--	--
DEC											
06...	.08	.92	1.0	1.2	5.4	.16	--	--	--	--	--
JAN											
09...	<.05	--	1.1	1.3	5.9	.10	<10	10	<20	2600	<10
23...	.06	--	--	--	--	.05	<10	<5	<20	910	<10
FEB											
07...	.05	2.1	2.2	2.5	11	.10	--	--	--	--	--
MAR											
06...	.08	.72	.80	1.1	4.9	.14	--	--	--	--	--
APR											
03...	.08	.22	.30	.32	1.4	.10	<10	<5	<20	1100	<10
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	.06	1.4	1.5	1.6	7.2	.14	--	--	--	--	--
30...	.05	--	--	--	--	.23	--	--	--	--	--
JUN											
26...	.09	.51	.60	1.2	5.3	.15	--	--	--	--	--
JUL											
17...	.05	--	<.01	--	--	.13	<10	<5	<20	740	100
AUG											
28...	.09	.81	.90	.91	4.0	.21	--	--	--	--	--
SEP											
25...	.04	.86	.90	1.1	4.7	.13	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
10...	110	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
09...	130	--	<10	--	--	--	--	--	--	--	--
23...	55	--	<10	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	22	--	10	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	--	--	--	.00	--	.00	.00	.00	.00	.00	0
JUL											
17...	480	<1.0	20	.00	.00	.00	.00	.00	.00	.00	0
AUG											
28...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP											
25...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO

LOCATION.--Lat 36°30'10", long 94°16'30", in SW¼NE¼ sec.34, T.21 N., R.31 W., McDonald County, Hydrologic Unit 11070208, at bridge on U.S. Highway 71, 0.5 mi (0.8 km) north of Caverna, Mo., and 0.1 mi (0.2 km) downstream from Bear Creek.

DRAINAGE AREA.--118 mi² (306 km²), at State line.

PERIOD OF RECORD.--August 1967 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	321	7.9	17.0	0	10.5	108	--	17	170
NOV											
15...	9827	9827	321	7.8	17.0	0	11.0	113	2.3	15	--
DEC											
14...	9827	9827	314	8.2	12.0	0	12.1	112	1.0	<4	--
JAN											
30...	9827	9827	303	7.7	5.0	0	12.4	97	2.2	<3	130
FEB											
20...	9827	9827	296	7.8	6.0	0	12.2	98	2.6	3	--
MAR											
20...	9827	9827	271	8.0	15.0	0	11.5	113	2.1	4	--
APR											
11...	9827	9827	269	7.7	16.0	15	9.8	98	2.9	<4	86
MAY											
09...	9827	9827	233	8.1	18.5	5	10.6	112	--	110	--
JUN											
06...	9827	9827	235	7.6	19.0	20	7.8	83	3.6	96	--
JUL											
11...	9827	9827	268	8.1	28.0	5	11.7	148	--	120	130
AUG											
08...	9827	9827	287	8.5	27.0	0	13.0	160	5.7	390	--
SEP											
05...	9827	9827	306	8.0	28.0	0	9.6	122	3.1	35	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT											
18...	66	1.9	5.6	2.0	130	4.0	8.5	--	8	1.0	<.05
NOV											
15...	--	--	--	--	--	17	9.0	177	4	1.2	<.05
DEC											
14...	--	--	--	--	--	7.0	8.5	188	5	.99	<.05
JAN											
30...	50	2.0	6.0	1.7	130	7.0	9.0	178	6	1.9	<.05
FEB											
20...	--	--	--	--	--	7.0	7.5	180	8	2.0	.01
MAR											
20...	--	--	--	--	--	3.0	6.5	166	9	2.3	.01
APR											
11...	31	1.5	3.2	1.7	88	4.0	6.0	138	32	1.4	.02
MAY											
09...	--	--	--	--	--	4.0	6.5	134	10	1.3	.01
JUN											
06...	--	--	--	--	--	2.0	5.5	151	148	1.4	.03
JUL											
11...	48	2.0	4.5	1.8	130	2.0	7.5	172	25	1.2	.01
AUG											
08...	--	--	--	--	--	5.0	8.5	178	41	.29	.01
SEP											
05...	--	--	--	--	--	--	12	177	25	.69	.01

ARKANSAS RIVER BASIN

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
OCT											
18...	1.0	.10	.14	<10	<5	<10	90	<10	18	--	<10
NOV											
15...	1.2	.08	.15	--	--	--	--	--	--	--	--
DEC											
14...	1.0	<.05	.22	--	--	--	--	--	--	--	--
JAN											
30...	1.9	.14	.22	<10	<5	<20	120	<10	17	--	<10
FEB											
20...	2.0	.31	.19	--	--	--	--	--	--	--	--
MAR											
20...	2.3	.05	--	--	--	--	--	--	--	--	--
APR											
11...	1.4	.09	.09	<10	10	<20	1000	<10	97	--	<10
MAY											
09...	1.3	.04	.13	--	--	--	--	--	--	--	--
JUN											
06...	1.4	.09	.40	--	--	--	--	--	--	--	--
JUL											
11...	1.2	.07	6.8	<10	<5	<20	210	<10	28	1.2	60
AUG											
08...	.30	.01	.38	--	--	--	--	--	--	--	--
SEP											
05...	.70	.13	.20	--	--	--	--	--	--	--	--

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, AR

LOCATION.--Lat 36°30'44", long 94°28'54", in NW¼NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., Hydrologic Unit 11070208, at bridge on county road about 500 ft (152 m) west of State Highway 59, 0.9 mi (1.4 km) north of State line along Highway 59, 2.0 mi (3.2 km) northwest of Sulphur Springs.

DRAINAGE AREA.--34.9 mi² (90.4 km²), at State line.

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	345	8.1	18.5	0	9.1	96	1.7	200	200
31...	9827	9827	346	7.9	21.0	0	9.8	109	2.3	3	--
NOV											
28...	9827	9827	342	--	10.5	0	12.9	115	2.5	11	--
JAN											
03...	9827	9827	335	8.2	4.0	0	13.9	106	2.8	6	180
FEB											
14...	9827	9827	327	7.9	6.0	--	12.4	99	1.2	120	150
27...	9827	9827	308	7.8	7.0	0	11.6	95	2.4	430	--
MAR											
27...	9827	9827	239	7.7	13.0	0	10.7	101	.5	100	--
APR											
24...	9827	9827	243	7.6	15.0	0	11.0	108	2.4	140	110
MAY											
22...	9827	9827	256	8.0	17.5	0	9.9	103	1.1	580	--
JUN											
21...	9827	9827	267	7.7	18.1	5	9.5	100	2.0	960	--
JUL											
24...	9827	9827	300	8.0	27.5	5	8.1	101	3.7	1400	150
AUG											
21...	9827	9827	332	7.9	28.0	0	8.5	108	--	--	--
SEP											
18...	9827	9827	343	7.7	26.0	0	--	94	2.2	1500	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
03...	68	7.0	3.6	1.8	110	5.0	5.5	211	2	1.5
31...	--	--	--	--	--	6.0	9.0	226	1	.67
NOV										
28...	--	--	--	--	--	--	7.5	209	2	.85
JAN										
03...	61	7.0	3.9	1.1	150	8.0	8.0	197	6	.99
FEB										
14...	51	6.0	3.6	1.1	140	10	8.0	198	5	1.3
27...	--	--	--	--	--	6.0	9.5	186	2	.98
MAR										
27...	--	--	--	--	--	11	5.0	144	1	2.0
APR										
24...	39	2.5	2.5	1.1	110	8.0	5.0	144	1	.89
MAY										
22...	--	--	--	--	--	6.0	5.0	156	3	1.1
JUN										
21...	--	--	--	--	--	2.0	4.5	159	9	.74
JUL										
24...	53	4.0	3.2	1.5	150	<1.0	6.5	189	3	.45
AUG										
21...	--	--	--	--	--	7.0	12	211	4	.57
SEP										
18...	--	--	--	--	--	10	8.5	194	--	.54

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
03...	<.05	1.5	.10	.02	<10	<5	<10	60	<10	20
31...	<.05	.67	.05	--	--	--	--	--	--	--
NOV										
28...	<.05	.86	<.05	.01	--	--	--	--	--	--
JAN										
03...	<.05	.99	<.05	.65	<10	<5	<20	100	<10	<8
FEB										
14...	.01	1.3	.05	--	<10	<5	<20	<30	<10	<8
27...	.01	.99	.17	.02	--	--	--	--	--	--
MAR										
27...	.01	2.0	.04	.06	--	--	--	--	--	--
APR										
24...	.01	.90	.05	.01	<10	<5	<20	<30	<10	24
MAY										
22...	.01	1.1	.05	.08	--	--	--	--	--	--
JUN										
21...	.01	.75	.22	.04	--	--	--	--	--	--
JUL										
24...	.01	.46	.01	.02	<10	<5	<20	220	<10	45
AUG										
21...	.01	.58	.05	.05	--	--	--	--	--	--
SEP										
18...	.01	.55	.06	.03	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
03...	--	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
03...	--	<10	--	--	--	--	--	--	--	--
FEB										
14...	--	<10	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAR										
27...	--	--	--	--	--	--	--	--	--	--
APR										
24...	--	<10	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
21...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07194800 ILLINOIS RIVER AT SAVOY, AR

LOCATION.--Lat 36°06'11", long 94°20'39", in SE¼ sec.36, T.17 N., R.32 W., Washington County, Hydrologic Unit 11110103, at bridge on State Highway 16, 0.4 mi (0.6 km) downstream from Clear Creek, and 0.7 mi (1.1 km) southwest of Savoy.

DRAINAGE AREA.--167 mi² (433 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	244	7.9	18.5	35	8.0	85	3.0	--	120
31...	9827	9827	295	7.7	21.0	5	8.6	96	3.7	45	--
NOV											
28...	9827	9827	256	--	9.0	5	11.3	97	2.0	73	--
JAN											
03...	9827	9827	272	8.3	6.0	5	13.3	122	3.3	5	140
FEB											
14...	9827	9827	160	7.3	4.0	--	12.4	95	3.8	--	49
27...	9827	9827	200	7.8	6.0	20	12.2	98	3.0	83	--
MAR											
27...	9827	9827	176	7.3	12.0	30	10.6	98	2.1	530	--
APR											
24...	9827	9827	230	7.8	18.5	5	11.3	120	2.9	290	96
MAY											
22...	9827	9827	225	7.8	20.5	5	9.1	99	2.3	1800	--
JUN											
20...	9827	9827	--	--	--	--	--	--	--	--	--
21...	9827	9827	130	7.2	22.0	100	7.4	84	>7.4	--	--
JUL											
24...	9827	9827	277	8.0	29.0	10	9.4	121	3.6	260	130
AUG											
21...	9827	9827	275	8.1	29.0	5	10.2	131	--	800	--
SEP											
18...	9827	9827	285	8.1	28.0	5	--	133	8.4	350	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
03...	44	3.0	4.5	3.6	82	7.0	8.0	160	16	2.0
31...	--	--	--	--	--	5.0	11	200	6	.59
NOV										
28...	--	--	--	--	--	--	9.5	157	4	1.8
JAN										
03...	49	3.0	5.2	1.8	100	10	12	158	1	1.7
FEB										
14...	16	2.0	3.4	3.3	51	8.0	8.0	113	--	1.9
27...	--	--	--	--	--	10	9.5	123	11	1.6
MAR										
27...	--	--	--	--	--	11	7.5	124	21	2.6
APR										
24...	34	2.4	4.5	2.0	94	8.0	9.0	134	4	1.7
MAY										
22...	--	--	--	--	--	5.0	8.5	137	15	1.5
JUN										
20...	--	--	--	--	--	4.0	--	--	--	--
21...	--	--	--	--	--	--	5.5	117	342	--
JUL										
24...	47	2.0	6.0	2.9	120	<1.0	12	168	34	1.3
AUG										
21...	--	--	--	--	--	2.0	10	174	37	.93
SEP										
18...	--	--	--	--	--	5.0	11	150	--	.66

ARKANSAS RIVER BASIN

07194800 ILLINOIS RIVER AT SAVOY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
03...	<.05	2.0	.08	.11	<10	<5	<10	1000	<10	130
31...	<.05	.60	<.05	--	--	--	--	--	--	--
NOV										
28...	<.05	1.8	<.05	.07	--	--	--	--	--	--
JAN										
03...	<.05	1.7	<.05	.17	<10	<5	<20	230	<10	29
FEB										
14...	.01	1.4	.12	--	<10	20	<20	240	<10	65
27...	.01	1.7	.02	.07	--	--	--	--	--	--
MAR										
27...	.01	2.6	.09	.15	--	--	--	--	--	--
APR										
24...	.01	1.7	.04	.05	<10	<5	<20	390	<10	60
MAY										
22...	.03	1.5	.03	.12	--	--	--	--	--	--
JUN										
20...	.07	.05	.17	.51	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	.01	1.3	.03	.06	<10	<5	<20	500	<10	91
AUG										
21...	.01	.94	.04	.05	--	--	--	--	--	--
SEP										
18...	.01	.67	.03	.17	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
03...	--	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
03...	--	<10	--	--	--	--	--	--	--	--
FEB										
14...	--	30	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAR										
27...	--	--	--	--	--	--	--	--	--	--
APR										
24...	--	<10	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
21...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07195000 OSAGE CREEK NEAR ELM SPRINGS, AR

LOCATION.--Lat 36°13'19", long 94°17'18", in SW¼NE¼ sec.21, T.18 N., R.31 W., Benton County, Hydrologic Unit 11110103, on left bank 0.7 mi (1.1 km) downstream from Little Osage Creek, and 3.2 mi (5.1 km) northwest of Elm Springs.

DRAINAGE AREA.--130 mi² (337 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEM, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	336	7.9	17.0	0	10.1	104	--	240	140
NOV											
15...	9827	9827	338	7.8	--	0	10.7	--	7.8	160	--
DEC											
14...	9827	9827	294	8.0	12.0	5	11.3	105	3.2	33	--
JAN											
30...	9827	9827	313	7.8	5.5	5	13.2	104	3.0	24	110
FEB											
20...	9827	9827	296	7.7	6.0	0	12.1	97	2.7	7	--
MAR											
20...	9827	9827	269	8.1	16.0	0	12.5	125	6.8	24	--
APR											
11...	9827	9827	204	7.6	18.0	40	10.3	108	4.0	--	69
MAY											
09...	9827	9827	251	8.0	18.0	10	10.2	107	--	440	--
JUN											
06...	9827	9827	263	7.7	19.0	20	7.8	83	6.7	1500	--
JUL											
11...	9827	9827	282	7.9	26.0	5	9.5	116	--	660	110
AUG											
08...	9827	9827	320	8.1	25.0	0	9.6	114	5.1	300	--
SEP											
05...	9827	9827	318	8.0	27.0	10	9.9	122	6.6	84	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
18...	53	1.8	15	3.9	110	12	18	--	5	5.0
NOV										
15...	--	--	--	--	--	14	17	203	4	4.5
DEC										
14...	--	--	--	--	--	12	16	185	8	3.9
JAN										
30...	42	2.0	12	2.8	110	9.0	16	178	4	3.5
FEB										
20...	--	--	--	--	--	7.0	11	178	<1	2.0
MAR										
20...	--	--	--	--	--	4.0	10	165	11	3.4
APR										
11...	24	1.7	4.6	2.8	71	5.0	8.0	149	45	3.0
MAY										
09...	--	--	--	--	--	7.0	11	150	13	3.7
JUN										
06...	--	--	--	--	--	15	11	171	90	3.1
JUL										
11...	41	2.0	9.0	3.0	110	5.0	12	179	17	1.1
AUG										
08...	--	--	--	--	--	9.0	17	209	16	4.7
SEP										
05...	--	--	--	--	--	--	15	188	11	3.5

07195000 OSAGE CREEK NEAR ELM SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
18...	<.05	5.0	.06	.85	<10	<5	10	70	<10	<8
NOV										
15...	<.05	4.5	.13	.96	--	--	--	--	--	--
DEC										
14...	.11	4.0	.20	1.4	--	--	--	--	--	--
JAN										
30...	.10	3.6	.35	3.0	<10	8	<20	120	<10	33
FEB										
20...	.09	2.1	.15	.63	--	--	--	--	--	--
MAR										
20...	.14	3.6	3.0	--	--	--	--	--	--	--
APR										
11...	.05	3.0	.09	.30	<10	20	20	960	<10	55
MAY										
09...	.03	3.7	.07	.14	--	--	--	--	--	--
JUN										
06...	.05	3.2	.10	1.5	--	--	--	--	--	--
JUL										
11...	.01	1.1	.10	.46	<10	<5	<20	150	<10	28
AUG										
08...	.01	4.7	.01	1.3	--	--	--	--	--	--
SEP										
05...	.02	3.5	.15	4.9	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
18...	--	<10	--	--	--	--	--	--	--	--
NOV										
15...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN										
30...	--	<10	--	--	--	--	--	--	--	--
FEB										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
11...	--	<10	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, AR

LOCATION.--Lat 36°06'31", long 94°32'00", in SE¼NE¼ sec.31, T.17 N., R.33 W., Benton County, Hydrologic Unit 11110103, at bridge on State Highway 59, 5.0 mi (8.0 km) south of Siloam Springs.

DRAINAGE AREA.--575 mi² (1,489 km²), at State line.

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	245	7.7	14.0	10	7.3	77	3.8	380	130
31...	9827	9827	306	7.8	19.0	0	6.6	70	1.9	50	--
NOV											
28...	9827	9827	273	--	9.0	0	9.9	85	1.6	<5	--
JAN											
03...	9827	9827	293	8.1	3.0	5	14.0	104	3.4	8	140
FEB											
14...	9827	9827	175	7.3	3.0	--	11.1	82	4.9	--	61
27...	9827	9827	234	7.8	7.0	10	10.5	87	2.3	22	--
MAR											
27...	9827	9827	143	7.3	10.5	20	9.9	88	1.6	530	--
APR											
24...	9827	9827	235	7.6	16.1	5	8.0	80	1.4	44	95
MAY											
22...	9827	9827	235	7.7	20.0	5	7.1	77	1.7	60	--
JUN											
21...	9827	9827	164	7.3	22.0	100	7.7	88	4.5	--	--
JUL											
24...	9827	9827	257	7.7	25.5	10	7.3	88	2.5	580	120
AUG											
21...	9827	9827	280	7.8	26.0	0	7.8	95	--	120	--
SEP											
18...	9827	9827	279	7.8	26.0	0	--	82	3.0	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
03...	46	2.0	5.8	3.3	78	5.0	4.5	154	17	2.6
31...	--	--	--	--	--	6.0	14	192	10	1.7
NOV										
28...	--	--	--	--	--	--	11	161	6	2.0
JAN										
03...	53	2.0	8.4	2.3	110	6.0	14	168	2	--
FEB										
14...	21	2.0	4.2	3.4	56	8.0	8.5	139	60	2.1
27...	--	--	--	--	--	7.0	11	139	20	2.2
MAR										
27...	--	--	--	--	--	8.0	7.5	124	29	3.3
APR										
24...	35	1.8	5.2	2.1	94	5.0	8.5	135	5	2.3
MAY										
22...	--	--	--	--	--	3.0	9.0	144	18	1.7
JUN										
21...	--	--	--	--	--	4.0	6.5	145	219	1.3
JUL										
24...	43	2.0	7.0	2.9	100	<1.0	13	162	20	4.6
AUG										
21...	--	--	--	--	--	4.0	13	180	29	1.4
SEP										
18...	--	--	--	--	--	7.0	13	152	--	1.3

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
03...	<.05	2.6	.20	.19	<10	<5	20	640	<10	69
31...	<.05	1.7	<.05	--	--	--	--	--	--	--
NOV										
28...	<.05	2.0	<.05	.18	--	--	--	--	--	--
JAN										
03...	<.05	--	<.05	.31	<10	<5	<20	60	<10	58
FEB										
14...	.03	2.1	.22	--	<10	7	<20	120	<10	11
27...	.02	2.2	.02	.18	--	--	--	--	--	--
MAR										
27...	.01	3.3	.06	.18	--	--	--	--	--	--
APR										
24...	.01	2.3	.02	.15	<10	<5	<20	350	<10	32
MAY										
22...	.01	1.7	.01	.28	--	--	--	--	--	--
JUN										
21...	.09	1.4	.34	.35	--	--	--	--	--	--
JUL										
24...	.01	4.6	.03	.20	<10	10	<20	930	<10	51
AUG										
21...	.01	1.4	.04	.39	--	--	--	--	--	--
SEP										
18...	.01	1.3	.06	.49	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
03...	--	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
03...	--	<10	--	--	--	--	--	--	--	--
FEB										
14...	--	<10	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAR										
27...	--	--	--	--	--	--	--	--	--	--
APR										
24...	--	<10	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
21...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07195800 FLINT CREEK AT SPRINGTOWN, AR

LOCATION.--Lat 36°15'20", long 94°25'50", in NW¼ sec.7, T.18 N., R.32 W., Benton County, Hydrologic Unit 11110103, on right bank 20 ft (6 m) downstream from State Highway 12, 0.8 mi (1.3 km) southwest of Springtown.

DRAINAGE AREA.--14.2 mi^2 (36.8 km^2).

PERIOD OF RECORD.--June 1961 to current year.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,173.47 ft (357.674 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some diversion for irrigation above gage.

AVERAGE DISCHARGE.--17 years, 14.7 ft^3/s (0.42 m^3/s), 14.06 in/yr (357 mm/yr), 10,650 acre-ft/yr (13.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft^3/s (413 m^3/s) June 8, 1974, gage height, 17.51 ft, (5.337 m), from floodmarks, from rating curve extended above 260 ft^3/s (7.36 m^3/s) on basis of contracted-opening, and flow-over-road measurement of peak flow; no flow for part of July 9, 29, 30, Aug. 7, 1964, result of pumpage for irrigation above gage.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 260 ft^3/s (7.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	0815	527	14.9	6.94	2.115
June 21	0400	*774	21.9	7.91	2.411

Minimum discharge, 4.1 ft^3/s (0.12 m^3/s) Aug. 23-25, Sept. 13, 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	8.5	17	7.3	8.1	20	20	18	8.4	14	6.4	4.7
2	36	15	16	7.0	7.9	26	18	17	8.7	13	6.2	4.6
3	28	14	15	7.0	7.7	29	17	25	8.4	12	6.2	4.5
4	23	12	14	6.9	7.5	26	20	28	8.7	11	9.5	4.4
5	20	10	14	7.0	7.4	23	18	26	10	10	8.7	4.3
6	17	9.6	12	7.0	7.1	20	18	23	35	9.2	8.1	4.3
7	14	8.9	11	7.0	7.1	24	17	32	30	9.0	7.8	4.3
8	14	8.9	11	6.7	7.0	31	16	49	24	8.1	7.2	4.3
9	12	14	9.9	6.3	7.0	30	18	39	19	7.5	6.9	4.3
10	10	13	9.3	6.4	7.0	29	151	32	16	6.9	6.4	4.5
11	8.9	12	9.0	6.5	7.1	26	80	28	14	7.8	6.2	4.4
12	8.1	10	8.8	6.3	13	22	57	26	13	9.0	10	4.3
13	8.0	9.6	8.6	6.3	30	21	48	22	12	8.7	7.5	4.1
14	7.2	8.9	8.5	6.3	27	19	39	19	11	8.4	6.4	5.8
15	6.7	8.5	8.1	6.2	24	17	33	17	10	9.8	5.9	5.6
16	6.2	49	8.3	7.8	20	17	29	15	10	9.0	5.7	5.1
17	6.2	32	10	7.5	18	15	26	13	9.0	8.4	5.1	4.5
18	5.9	26	9.2	7.2	16	15	24	14	52	8.1	4.8	4.4
19	5.6	22	9.1	7.1	15	14	21	13	34	7.8	4.5	4.3
20	5.4	22	8.3	7.0	14	15	19	12	50	7.5	4.4	4.1
21	5.2	22	8.0	6.9	12	35	17	11	264	6.9	4.3	7.2
22	4.9	19	7.9	6.9	12	31	16	11	83	6.7	4.2	6.5
23	5.2	18	7.9	6.9	12	38	15	10	57	8.7	4.1	5.1
24	5.2	15	7.8	8.1	15	269	14	9.8	44	9.8	4.1	4.8
25	5.0	14	7.5	11	16	90	13	9.2	34	8.4	4.1	4.6
26	5.0	12	7.3	10	15	59	12	9.0	28	8.4	4.3	4.5
27	5.0	11	7.1	9.7	15	45	12	8.7	22	9.0	7.8	4.4
28	5.0	9.9	7.0	9.2	20	37	12	9.2	20	8.1	6.8	4.3
29	5.1	9.3	7.2	9.0	---	30	12	9.0	17	7.8	6.4	4.3
30	5.2	12	7.6	8.8	---	27	13	8.7	15	7.5	5.7	4.2
31	6.2	---	7.3	8.5	---	23	---	8.4	---	6.9	5.2	---
TOTAL	346.2	456.1	299.7	231.8	374.9	1123	825	572.0	967.2	273.4	190.9	140.7
MEAN	11.2	15.2	9.67	7.48	13.4	36.2	27.5	18.5	32.2	8.82	6.16	4.69
MAX	47	49	17	11	30	269	151	49	264	14	10	7.2
MIN	4.9	8.5	7.0	6.2	7.0	14	12	8.4	8.4	6.7	4.1	4.1
CFSM	.79	1.07	.68	.53	.94	2.55	1.94	1.30	2.27	.62	.43	.33
IN.	.91	1.19	.79	.61	.98	2.94	2.16	1.50	2.53	.72	.50	.37
AC-FT	687	905	594	460	744	2230	1640	1130	1920	542	379	279

CAL YR 1977	TOTAL	3397.61	MEAN	9.31	MAX 363	MIN .56	CFSM .66	IN 8.90	AC-FT 6740			
WTR YR 1978	TOTAL	5800.90	MEAN	15.9	MAX 269	MIN 4.1	CFSM 1.12	IN 15.20	AC-FT 11510			

07195850 FLINT CREEK NORTH OF SILOAM SPRINGS, AR

LOCATION.--Lat 36°13'53", long 94°33'20", in NE¼SE¼ sec.23, T.18 N., R.34 W., Benton County, Hydrologic Unit 11110103, at bridge on State Highway 43, upstream from confluence with Little Flint Creek, 3.0 mi (4.8 km) northwest of Siloam Springs.

DRAINAGE AREA.--34.0 mi² (88.1 km²), above Little Flint Creek.

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
03...	9827	9827	209	7.8	19.0	25	8.6	91	1.6	520	110
31...	9827	9827	255	7.7	19.0	0	9.2	98	1.9	150	--
NOV											
28...	9827	9827	230	7.6	9.0	0	11.1	96	.6	5	--
JAN											
03...	9827	9827	236	7.8	4.0	0	13.3	102	2.1	13	120
FEB											
14...	9827	9827	223	7.6	4.0	--	12.4	95	2.3	70	100
27...	9827	9827	215	8.0	6.5	0	12.3	102	2.7	6	--
MAR											
27...	9827	9827	172	7.4	13.0	5	10.6	100	1.8	220	--
APR											
24...	9827	9827	199	7.7	17.0	0	10.9	112	1.6	20	78
MAY											
22...	9827	9827	209	7.8	20.5	0	9.0	99	1.7	70	--
JUN											
21...	9827	9827	112	7.1	22.0	100	8.8	100	7.3	750	--
JUL											
24...	9827	9827	220	8.0	26.5	10	8.6	106	2.7	40	99
AUG											
21...	9827	9827	226	8.0	25.0	0	8.1	96	--	250	--
SEP											
18...	9827	9827	262	7.7	27.0	0	--	106	2.8	76	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
03...	39	2.0	4.5	3.2	60	4.0	8.5	148	14	3.1
31...	--	--	--	--	--	3.0	10	163	1	1.8
NOV										
28...	--	--	--	--	--	--	9.0	138	3	1.2
JAN										
03...	45	2.0	4.8	1.6	92	2.0	10	140	<1	1.9
FEB										
14...	39	1.0	4.9	1.8	88	3.0	9.5	139	1	2.4
27...	--	--	--	--	--	2.0	9.5	130	3	2.6
MAR										
27...	--	--	--	--	--	6.0	7.5	118	3	3.3
APR										
24...	29	1.5	4.3	1.9	76	3.0	8.0	119	1	2.0
MAY										
22...	--	--	--	--	--	2.0	9.0	127	3	1.7
JUN										
21...	--	--	--	--	--	<1.0	3.5	92	11	.44
JUL										
24...	36	2.0	4.7	2.3	96	<1.0	8.0	138	5	.51
AUG										
21...	--	--	--	--	--	3.0	8.5	142	3	.35
SEP										
18...	--	--	--	--	--	10	9.5	136	--	.46

ARKANSAS RIVER BASIN

07195850 FLINT CREEK NORTH OF SILOAM SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
03...	<.05	3.1	.15	.09	<10	<5	20	550	<10	59
31...	.05	1.8	.06	--	--	--	--	--	--	--
NOV										
28...	<.05	1.2	<.05	.02	--	--	--	--	--	--
JAN										
03...	<.05	1.9	<.05	.32	<10	<5	<20	40	<10	<8
FEB										
14...	.01	2.4	.05	--	<10	10	<20	<30	<10	<8
27...	.01	2.6	.01	.02	--	--	--	--	--	--
MAR										
27...	.01	3.3	.09	.11	--	--	--	--	--	--
APR										
24...	.01	2.1	.04	.05	<10	<5	<20	<30	<10	10
MAY										
22...	.01	1.7	<.01	.13	--	--	--	--	--	--
JUN										
21...	.01	.45	.03	.10	--	--	--	--	--	--
JUL										
24...	.01	.52	.01	.01	<10	<5	<20	290	<10	14
AUG										
21...	.01	.36	.02	.08	--	--	--	--	--	--
SEP										
18...	.01	.47	.01	.10	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
03...	--	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
03...	--	<10	--	--	--	--	--	--	--	--
FEB										
14...	--	<10	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAR										
27...	--	--	--	--	--	--	--	--	--	--
APR										
24...	--	<10	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
24...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
21...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07196900 BARON FORK AT DUTCH MILLS, AR

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, Hydrologic Unit 11110103, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 mi (3.5 km) downstream from Fly Creek, and 2.9 mi (4.7 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--46.0 mi^2 (119 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year. Prior to October 1969, published as Barren Fork at Dutch Mills.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 986.47 ft (300.676 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 40.5 ft^3/s (1.15 m^3/s), 11.96 in/yr (304 mm/yr), 29,340 acre-ft/yr (36.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,100 ft^3/s (484 m^3/s) July 13, 1972, gage height, 13.74 ft (4.188 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of contracted-opening measurement at 12,900 ft^3/s (365 m^3/s); no flow at times in 1963, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft^3/s (56 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	0630	5,620	159	9.57	2.917	June 18	1145	*6,550	185	10.04	3.060
May 7	0745	6,080	172	9.81	2.990	June 21	0545	2,390	67.7	7.32	2.231

Minimum discharge, 0.62 ft^3/s (0.018 m^3/s) Aug. 18-19, gage height 1.32 ft (0.402 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.8	71	9.4	18	82	46	115	8.3	15	2.0	2.0
2	8.2	20	36	8.5	17	94	42	43	9.1	14	1.8	1.7
3	6.6	22	27	9.2	16	86	38	256	8.3	12	1.7	1.6
4	5.6	12	23	8.6	16	64	47	126	9.5	11	1.9	1.5
5	5.0	8.5	32	8.0	15	53	42	67	39	9.7	2.9	1.1
6	5.0	6.2	25	7.5	15	49	45	45	172	9.0	2.9	1.1
7	4.7	4.7	21	6.8	14	165	38	1380	74	9.9	2.2	1.1
8	6.2	14	20	6.4	14	188	33	264	45	8.5	1.7	.95
9	5.9	68	16	6.1	14	114	30	115	25	7.8	1.4	.90
10	4.1	27	14	5.9	13	87	137	70	18	6.7	1.3	.92
11	3.3	18	14	5.8	13	72	112	51	15	6.1	1.2	.94
12	2.6	13	13	6.2	154	59	64	297	12	5.6	1.9	1.0
13	2.0	9.4	30	7.0	465	55	44	106	10	5.2	2.1	1.0
14	1.8	7.0	61	7.4	131	53	34	60	9.5	4.8	1.6	3.0
15	1.5	5.9	36	7.4	87	50	29	44	8.6	4.5	1.1	2.9
16	1.5	132	28	10	68	56	26	34	7.8	4.6	1.0	1.9
17	1.2	38	24	16	54	51	24	29	7.1	4.3	.91	1.2
18	1.2	25	20	23	52	46	24	27	1090	3.8	.78	1.0
19	1.1	20	18	19	48	41	20	25	154	3.4	.74	.85
20	.87	26	16	15	41	38	19	21	101	3.2	.77	.98
21	.97	42	14	13	29	61	17	19	598	2.9	.74	9.5
22	1.2	25	13	11	37	51	16	33	168	2.6	.79	7.7
23	1.5	21	13	9.5	53	172	15	25	86	2.9	1.1	4.1
24	2.2	18	12	25	63	2180	13	19	56	3.3	.97	2.9
25	2.4	15	11	55	66	284	12	15	42	3.2	.96	2.6
26	2.6	14	10	29	52	160	11	13	31	2.9	4.4	2.2
27	2.8	13	9.4	27	63	113	11	12	26	2.9	2.8	2.1
28	3.1	12	9.4	24	143	89	10	12	22	3.2	2.4	1.7
29	3.1	11	9.8	20	---	73	13	11	19	2.6	2.2	1.4
30	3.6	20	11	19	---	61	12	9.3	17	2.2	2.1	1.2
31	4.7	---	10	17	---	52	---	8.3	---	2.4	2.1	---
TOTAL	108.54	675.5	667.6	442.7	1775	4799	1024	3351.6	2888.2	180.2	52.46	63.04
MEAN	3.50	22.5	21.5	14.3	63.4	155	34.1	108	96.3	5.81	1.69	2.10
MAX	12	132	71	55	465	2180	137	1380	1090	15	4.4	9.5
MIN	.87	4.7	9.4	5.8	13	38	10	8.3	7.1	2.2	.74	.85
CFSM	.08	.49	.47	.31	1.38	3.37	.74	2.35	2.09	.13	.04	.05
IN.	.09	.55	.54	.36	1.44	3.88	.83	2.71	2.34	.15	.04	.05
AC-FT	215	1340	1320	878	3520	9520	2030	6650	5730	357	104	125

CAL YR 1977 TOTAL 6919.29 MEAN 19.0 MAX 1640 MIN .12 CFSM .41 IN 5.60 AC-FT 13720
WTR YR 1978 TOTAL 16027.84 MEAN 43.9 MAX 2180 MIN .74 CFSM .95 IN 12.96 AC-FT 31790

07196900 BARON FORK AT DUTCH MILLS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1961, October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT											
03...	9827	9827	--	365	8.1	16.0	0	7.7	77	1.2	240
04...	1028	--	5.6	--	--	16.0	--	--	--	--	--
25...	1028	--	2.4	--	--	17.0	--	--	--	--	--
31...	9827	9827	--	349	7.5	19.0	0	5.8	62	3.6	55
NOV											
28...	9827	9827	--	336	--	9.0	0	10.0	86	2.0	400
DEC											
07...	1028	--	21	--	--	2.5	--	--	--	--	--
JAN											
03...	9827	9827	--	337	8.0	2.0	0	13.0	94	2.2	50
23...	1028	--	9.6	--	--	2.5	--	--	--	--	--
FEB											
14...	9827	9827	--	204	7.5	3.0	--	12.4	92	3.7	200
27...	9827	9827	--	250	8.0	5.5	5	11.7	92	2.5	110
MAR											
01...	1028	--	62	--	--	4.5	--	--	--	--	--
27...	9827	9827	--	230	7.6	9.0	10	11.2	97	2.0	150
APR											
12...	1028	--	66	--	--	11.0	--	--	--	--	--
24...	9827	9827	--	293	7.8	15.0	0	8.9	87	2.3	--
MAY											
22...	9827	9827	--	282	7.8	20.0	0	7.2	78	2.1	2000
24...	1028	--	22	--	--	20.0	--	--	--	--	--
JUN											
21...	9827	9827	--	117	7.3	20.0	150	8.5	92	5.0	--
JUL											
06...	1028	--	8.9	--	--	26.0	--	--	--	--	--
24...	9827	9827	--	282	7.7	26.0	10	6.0	73	4.1	390
AUG											
16...	1028	--	1.0	--	--	30.0	--	--	--	--	--
21...	9827	9827	--	257	7.9	25.5	5	7.2	87	--	440
SEP											
18...	9827	9827	--	257	7.9	25.0	5	--	93	3.4	390

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT											
03...	180	180	67	4.0	6.6	3.3	110	15	10	219	6
04...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
31...	240	--	--	--	--	--	--	16	12	216	8
NOV											
28...	130	--	--	--	--	--	--	--	9.5	193	4
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	40	170	62	4.0	6.1	1.9	130	14	10	192	<1
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	--	90	31	3.0	3.7	2.1	66	10	8.0	138	9
27...	110	--	--	--	--	--	--	11	9.0	152	5
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
27...	420	--	--	--	--	--	--	11	7.0	147	2
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
24...	1400	130	45	3.3	4.4	2.0	130	12	7.5	170	4
MAY											
22...	2000	--	--	--	--	--	--	7.0	7.5	168	7
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	5.0	5.0	128	149
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
24...	840	140	49	3.0	4.3	2.6	130	1.0	10	165	8
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
21...	240	--	--	--	--	--	--	4.0	7.5	157	20
SEP											
18...	370	--	--	--	--	--	--	6.0	7.5	133	--

07196900 BARON FORK AT DUTCH MILLS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
03...	1.5	<.05	1.5	.06	.12	<5	<10	<5	10	180	<10
04...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
31...	.12	<.05	.12	<.05	--	--	<10	--	10	280	--
NOV											
28...	2.5	<.05	2.5	<.05	.08	--	<10	--	<20	210	--
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	2.2	<.05	2.2	<.05	.19	<5	<10	<5	<20	60	<10
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	3.2	.01	3.2	.09	--	<5	<10	<5	<20	30	<10
27...	2.5	.01	2.5	.05	.06	--	<10	--	<20	300	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
27...	3.6	.01	3.6	.03	.11	--	--	--	--	--	--
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
24...	1.6	.03	1.6	.05	.05	<5	<10	<5	<20	170	<10
MAY											
22...	1.7	.01	1.7	.01	.12	--	<10	--	<10	340	<10
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	.62	.08	.70	.18	.50	--	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
24...	.44	.02	.46	.08	.11	<5	<10	<5	<20	190	30
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
21...	.05	.01	.06	.04	.07	--	<10	--	<20	770	--
SEP											
18...	.03	<.01	.03	.01	.07	--	<10	--	<20	420	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
03...	39	--	<10	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
31...	150	--	<10	--	--	--	--	--	--	--	--
NOV											
28...	20	--	10	.00	.00	.00	.00	.00	.00	.00	0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	19	--	<10	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	<8	--	<10	--	--	--	--	--	--	--	--
27...	29	--	<10	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
24...	34	--	<10	--	--	--	--	--	--	--	--
MAY											
22...	59	--	450	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
24...	100	<1.0	<10	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
21...	110	--	10	--	--	--	--	--	--	--	--
SEP											
18...	54	--	110	--	--	--	--	--	--	--	--

07247000 POTEAU RIVER AT CAUTHRON, AR

LOCATION.--Lat 34°55'08", long 94°17'55", in NW¼SW¼ sec.16, T.3 N., R.31 W., Scott County, Hydrologic Unit 11110105, on right bank at downstream side of highway bridge at Cauthron, 2.9 mi (4.7 km) downstream from Cross Creek, 7.8 mi (12.6 km) downstream from Jones Creek, and at mile 109.0 (175.4 km).

DRAINAGE AREA.--203 mi^2 (526 km^2).

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

REVISED RECORDS.--WSP 1037: 1939(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.53 ft (173.593 m) National Geodetic Vertical Datum of 1929. Prior to May 2, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. As of September 1974, flow from 84.8 mi^2 (220 km^2) above this station is controlled by 14 floodwater-detention reservoirs with a total combined capacity of 36,720 acre-ft (45.3 hm^3) below the flood-spillway crests, of which 30,275 acre-ft (37.3 hm^3) is flood-detention capacity, 2,100 acre-ft (2.58 hm^3) is water-supply storage, and 3,111 acre-ft (3.84 hm^3) is sediment-storage capacity.

AVERAGE DISCHARGE.--39 years, 211 ft^3/s (5.98 m^3/s), 14.12 in/yr (359 mm/yr), 152,900 acre-ft/yr (189 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,200 ft^3/s (912 m^3/s) May 20, 1960, gage height, 23.76 ft (7.242 m); no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1935 reached a stage of 27.4 ft (8.35 m), from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,740 ft^3/s (163 m^3/s) Mar. 24, gage height, 15.63 ft (4.764 m); no flow Sept. 2-3, 9-10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	7.5	32	5.4	61	420	144	21	27	2.0	74	.01
2	2.6	50	55	5.3	56	481	123	28	34	1.7	22	.00
3	2.3	41	30	5.3	50	515	105	179	28	1.6	10	.00
4	1.9	23	21	5.3	48	308	88	537	23	1.5	5.7	.11
5	1.8	15	333	4.9	47	235	78	264	244	1.3	3.2	.35
6	1.7	11	105	5.0	49	202	178	256	134	1.2	1.9	.19
7	1.6	8.1	47	5.1	43	676	162	1090	163	1.0	1.2	.09
8	3.7	7.3	31	5.0	36	908	113	1120	221	.92	.82	.04
9	5.5	7.0	24	4.7	32	581	90	517	85	.85	.59	.00
10	10	8.4	19	4.7	31	412	117	303	47	.99	.56	.00
11	9.7	10	16	5.1	33	313	483	231	33	1.3	.52	.23
12	6.7	9.4	14	6.0	62	249	288	195	25	1.3	.50	.52
13	5.1	8.1	13	5.4	927	212	168	182	21	1.3	.51	2.4
14	4.5	7.5	15	4.5	350	302	125	137	18	1.1	.54	2.8
15	3.5	7.5	20	8.0	215	208	92	109	17	1.1	.51	1.9
16	2.7	7.8	18	17	186	168	73	88	15	1.1	.47	1.2
17	2.4	7.8	16	127	180	138	61	73	12	1.1	.44	.78
18	2.3	8.7	13	80	184	118	52	63	9.4	.94	.41	.59
19	2.0	9.1	12	49	166	100	46	55	7.5	.84	.36	.55
20	1.7	8.4	11	38	163	87	42	50	7.1	.78	.24	.51
21	1.7	9.1	9.7	31	153	93	39	75	5.6	1.3	.18	.49
22	2.0	9.7	9.0	27	126	94	38	74	5.0	1.6	.16	.47
23	2.2	11	8.4	26	214	80	40	86	4.3	1.6	.16	.44
24	3.9	12	7.6	106	195	3550	41	71	4.1	1.6	.13	.43
25	4.3	8.4	6.2	232	175	1010	34	58	3.8	1.6	.12	.41
26	4.3	2.7	6.0	173	140	641	28	51	3.1	1.7	.08	.36
27	5.3	3.0	5.8	120	124	431	24	44	2.6	1.7	.04	.29
28	5.5	3.2	5.3	86	618	329	21	40	2.2	1.7	.04	.28
29	5.5	3.2	5.1	75	---	265	19	41	1.8	1.7	.04	.20
30	4.9	5.3	5.1	71	---	217	19	36	1.6	1.5	.04	.14
31	4.7	---	5.5	70	---	179	---	30	---	27	.04	---
TOTAL	118.9	330.2	918.7	1407.7	4664	13522	2931	6104	1205.1	66.92	125.50	15.78
MEAN	3.84	11.0	29.6	45.4	167	436	97.7	197	40.2	2.16	4.05	.53
MAX	10	50	333	232	927	3550	483	1120	244	27	74	2.8
MIN	1.6	2.7	5.1	4.5	31	80	19	21	1.6	.78	.04	.00
AC-FT	236	655	1820	2790	9250	26820	5810	12110	2390	133	249	31

CAL YR 1977	TOTAL	41816.09	MEAN	115	MAX	8350	MIN	.51	AC-FT	82940
WTR YR 1978	TOTAL	31409.80	MEAN	86.1	MAX	3550	MIN	.00	AC-FT	62300

07247012 POTEAU RIVER SOUTH OF BATES, AR

LOCATION.--Lat 34°53'44", long 94°23'35", in SW¼NW¼ sec.27, T.3 N., R.32 W., Scott County, Hydrologic Unit 11110105, at bridge on county road, 0.9 mi (1.4 km) south of Bates.

DRAINAGE AREA.--251 mi² (650 km²), station 07247010 near Bates.

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
11...	9827	9827	90	--	21.0	15	7.0	78	2.3	130	26
NOV											
01...	9827	9827	109	--	20.0	--	4.6	50	4.3	150	--
29...	9827	9827	111	--	12.0	20	6.1	56	3.7	90	--
JAN											
04...	9827	9827	90	7.0	13.0	80	11.4	108	2.4	72	22
31...	9827	9827	87	7.1	7.0	120	12.9	106	3.4	67	--
FEB											
28...	9827	9827	71	6.9	--	--	11.2	--	3.3	190	--
MAR											
28...	9827	9827	60	6.7	16.0	60	10.2	102	2.4	300	--
APR											
17...	9827	9827	73	6.8	22.0	50	8.2	93	2.5	65	17
MAY											
23...	9827	9827	71	7.0	27.0	55	7.3	90	2.6	190	--
JUN											
20...	9827	9827	88	7.0	29.0	50	6.2	79	4.6	220	--
20...	9827	9827	--	--	--	--	--	--	--	--	--
JUL											
25...	9827	9827	109	7.6	32.0	40	6.2	84	5.5	5	41
AUG											
22...	9827	9827	102	7.3	31.0	15	6.2	83	3.8	25	--
SEP											
18...	9827	9827	106	7.2	30.0	10	6.0	79	4.7	630	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
11...	4.0	4.0	6.1	3.5	26	11	6.0	75	7	<.05
NOV										
01...	--	--	--	--	--	14	6.0	75	--	<.05
29...	--	--	--	--	--	13	8.5	83	--	<.05
JAN										
04...	2.0	3.0	5.9	2.9	21	17	7.5	75	12	.19
31...	--	--	--	--	--	20	8.0	91	12	.32
FEB										
28...	--	--	--	--	--	11	7.5	80	45	.22
MAR										
28...	--	--	--	--	--	6.0	5.5	75	12	.24
APR										
17...	1.5	2.5	5.7	1.6	16	12	6.0	60	9	.11
MAY										
23...	--	--	--	--	--	9.0	6.0	69	18	.23
JUN										
20...	--	--	--	--	--	--	6.5	77	13	--
20...	--	--	--	--	--	10	--	--	--	.08
JUL										
25...	7.0	5.0	7.6	2.7	45	6.0	9.0	85	11	<.01
AUG										
22...	--	--	--	--	--	6.0	6.5	78	12	.01
SEP										
18...	--	--	--	--	--	8.0	7.0	58	13	.01

ARKANSAS RIVER BASIN

07247012 POTEAU RIVER SOUTH OF BATES, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
11...	<.05	<.05	.10	.04	<10	<5	<10	750	<10	160
NOV										
01...	<.05	<.05	<.05	--	--	--	--	--	--	--
29...	<.05	<.05	<.05	.04	--	--	--	--	--	--
JAN										
04...	<.05	.20	.05	.10	<10	<5	<20	2200	<10	110
31...	.01	.33	.17	.10	--	--	--	--	--	--
FEB										
28...	.02	.24	.16	.14	--	--	--	--	--	--
MAR										
28...	.01	.25	.11	.12	--	--	--	--	--	--
APR										
17...	.01	.12	.05	--	<10	10	<20	1400	<10	110
MAY										
23...	.01	.24	.07	.03	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
20...	.02	.10	.09	.09	--	--	--	--	--	--
JUL										
25...	.01	.01	<.01	.03	<10	<5	<20	860	30	700
AUG										
22...	.01	.02	--	.06	--	--	--	--	--	--
SEP										
18...	<.01	.01	.01	.04	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
11...	--	<10	--	--	--	--	--	--	--	--
NOV										
01...	--	--	.00	.00	.00	.00	.00	.00	.00	0
29...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	60	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
28...	--	--	--	--	--	--	--	--	--	--
MAR										
28...	--	--	--	--	--	--	--	--	--	--
APR										
17...	--	30	--	--	--	--	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	20	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07249400 JAMES FORK NEAR HACKETT, AR

LOCATION.--Lat 35°09'45", long 94°24'25", in NW¼NW¼ sec.34, T.6 N., R.32 W., Sebastian County, Hydrologic Unit 11110105, near left bank on downstream side of bridge on State Highway 45, 1.7 mi (2.7 km) south of Hackett, 2.0 mi (3.2 km) downstream from Elder Branch, 2.0 mi (3.2 km) upstream from small tributary, and 3.6 mi (5.8 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi^2 (381 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 459.71 ft (140.120 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 126 ft^3/s (3.57 m^3/s), 11.64 in/yr (296 mm/yr), 91,290 acre-ft/yr (113 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s (850 m^3/s) May 14, 1968, gage height, 23.00 ft (7.010 m), from rating curve extended above 20,000 ft^3/s (566 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,570 ft^3/s (129 m^3/s) Mar. 24 at 1300 hours, gage height, 18.88 ft (5.755 m), no other peak above base of 3,000 ft^3/s (85 m^3/s); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	39	69	4.4	47	226	119	28	34	6.8	.09	.00
2	.82	78	55	2.6	58	247	104	29	54	7.8	.02	.00
3	.74	49	38	3.3	50	243	93	162	43	9.5	.01	.00
4	.75	32	31	2.9	50	146	97	326	50	9.9	.01	.00
5	1.5	24	129	2.2	61	116	93	170	133	18	.14	.00
6	2.3	22	51	2.2	55	104	112	135	60	17	.39	.00
7	3.1	21	32	1.7	47	456	102	333	108	13	.48	.00
8	4.3	24	25	1.3	46	711	81	1230	57	11	.57	.00
9	11	29	19	1.3	34	321	75	277	44	9.8	1.3	.56
10	14	31	13	1.1	38	239	112	170	37	8.9	2.8	.88
11	10	26	9.7	.81	42	145	166	129	30	8.9	4.3	1.2
12	16	23	13	1.2	75	159	114	115	21	13	3.3	1.1
13	17	21	15	1.6	640	146	91	127	29	13	.07	.77
14	18	21	16	1.7	208	148	77	97	30	14	.01	.55
15	17	20	16	1.4	132	124	64	83	29	12	.00	.47
16	15	21	16	8.6	117	106	62	71	20	10	.00	.48
17	15	23	12	139	127	95	56	61	15	11	.06	.46
18	14	22	11	204	129	86	55	57	16	10	.41	.44
19	14	18	11	202	120	75	47	51	7.7	9.3	.30	.64
20	13	17	11	136	121	68	43	48	18	10	.22	.72
21	14	17	9.6	39	100	72	37	231	20	15	.24	.68
22	14	19	8.8	33	90	71	37	293	17	11	.14	.78
23	14	23	6.4	32	221	111	36	161	13	8.6	.09	.51
24	16	24	3.9	118	249	2890	35	84	11	6.6	.01	.31
25	17	22	2.5	226	167	700	32	61	5.9	5.1	.02	.21
26	18	21	2.8	136	129	386	32	51	4.7	4.1	.00	.19
27	20	19	3.4	82	108	288	31	44	3.6	2.8	.00	.19
28	20	19	3.3	60	322	227	27	49	4.3	1.5	.00	.21
29	19	19	2.8	48	---	186	27	50	5.1	.89	.00	.21
30	22	23	4.3	46	---	156	22	42	5.8	.50	.00	.18
31	27	---	5.4	46	---	133	---	35	---	.23	.00	---
TOTAL	390.21	767	645.9	1585.51	3578	9231	2079	4800	926.1	279.22	14.98	11.74
MEAN	12.6	25.6	20.8	51.1	128	298	69.3	155	30.9	9.01	.48	.39
MAX	27	78	129	226	640	2890	166	1230	133	18	4.3	1.2
MIN	.74	17	2.5	.81	38	68	22	28	3.6	.23	.00	.00
CFSM	.09	.17	.14	.35	.87	2.03	.47	1.05	.21	.06	.003	.003
IN.	.10	.19	.16	.40	.91	2.34	.53	1.21	.23	.07	.00	.00
AC-FT	774	1520	1280	3140	7100	18310	4120	9520	1840	554	30	23

CAL YR 1977	TOTAL	29188.71	MEAN 80.0	MAX 5450	MIN .23	CFSM .54	IN 7.39	AC-FT 57900				
WTR YR 1978	TOTAL	24308.66	MEAN 66.6	MAX 2890	MIN .00	CFSM .45	IN 6.15	AC-FT 48220				

07249400 JAMES FORK NEAR HACKETT, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1971, October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT											
04...	1028	--	.83	--	--	17.5	--	--	--	--	--
11...	9827	9827	--	730	--	20.0	0	7.5	82	.9	150
NOV											
01...	9827	9827	--	710	--	21.0	--	3.9	43	2.9	73
03...	1028	--	50	--	--	14.5	--	--	--	--	--
29...	9827	9827	--	789	--	12.0	10	7.1	66	.6	800
DEC											
13...	1028	--	14	--	--	5.5	--	--	--	--	--
JAN											
04...	9827	9827	--	524	7.7	13.0	5	12.4	117	2.8	<100
27...	1028	--	79	--	--	.5	--	--	--	--	--
31...	9827	9827	--	294	--	7.0	90	13.1	107	3.3	60
FEB											
21...	1028	--	107	--	--	.5	--	--	--	--	--
28...	9827	9827	--	141	6.8	8.0	--	11.4	96	2.3	--
MAR											
28...	9827	9827	--	238	6.8	15.0	60	9.8	96	3.6	1400
APR											
05...	1028	--	95	--	--	17.5	--	--	--	--	--
17...	9827	9827	--	379	7.1	21.0	10	8.1	90	3.4	100
MAY											
17...	1028	--	62	--	--	19.0	--	--	--	--	--
23...	9827	9827	--	211	7.1	25.0	90	7.1	85	2.7	2300
JUN											
20...	9827	9827	--	616	7.5	27.0	10	6.6	81	1.9	100
26...	1028	--	5.3	--	--	28.0	--	--	--	--	--
JUL											
25...	9827	9827	--	594	7.9	32.0	20	5.4	73	5.2	--
AUG											
09...	1028	--	1.2	--	--	25.0	--	--	--	--	--
22...	9827	9827	--	646	7.9	30.0	15	5.3	70	4.8	310
SEP											
18...	9827	9827	--	632	7.7	29.0	15	5.6	72	3.4	660
19...	1028	--	.62	--	--	26.5	--	--	--	--	--

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
11...	71	220	39	30	34	3.0	56	96	7.5	511	10
NOV											
01...	88	--	--	--	--	--	--	100	9.5	500	--
03...	--	--	--	--	--	--	--	--	--	--	--
29...	8	--	--	--	--	--	--	270	9.5	570	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	24	160	29	22	30	2.2	68	100	10	334	7
27...	--	--	--	--	--	--	--	--	--	--	--
31...	36	--	--	--	--	--	--	71	11	184	25
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
28...	930	--	--	--	--	--	--	41	7.5	140	9
MAR											
28...	430	--	--	--	--	--	--	69	7.5	171	27
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
17...	180	110	14	17	19	2.1	42	100	8.0	240	9
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
23...	530	--	--	--	--	--	--	55	6.5	138	44
JUN											
20...	11	--	--	--	--	--	--	93	10	440	20
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25...	170	190	37	23	55	3.4	120	6.0	14	401	15
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
22...	47	--	--	--	--	--	--	130	13	423	19
SEP											
18...	160	--	--	--	--	--	--	180	14	385	9
19...	--	--	--	--	--	--	--	--	--	--	--

07249400 JAMES FORK NEAR HACKETT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
11...	<.05	<.05	<.05	<.05	.03	<5	<10	<5	70	380	10
NOV											
01...	<.05	<.05	.05	<.05	--	--	<10	--	70	410	--
03...	--	--	--	--	--	--	--	--	--	--	--
29...	.22	<.05	.23	.05	.05	--	<10	--	110	730	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	.14	<.05	.15	<.05	.06	<5	<10	<5	<20	460	<10
27...	--	--	--	--	--	--	--	--	--	--	--
31...	.35	.01	.36	.07	.07	--	<10	--	170	2600	--
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
28...	.35	.02	.37	.09	.12	--	<10	--	<20	3500	--
MAR											
28...	1.1	.01	1.1	.11	.12	--	<10	--	20	2600	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
17...	1.5	.01	1.5	.08	--	<5	<10	30	<20	1200	20
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
23...	.58	.01	.59	.18	.04	--	<10	--	70	2800	--
JUN											
20...	.29	.01	.30	.27	.06	--	<10	--	50	730	--
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25...	.03	.01	.04	.10	.05	<5	10	<5	<20	340	10
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
22...	.01	.01	.02	--	.05	--	<10	--	<20	800	--
SEP											
18...	.01	<.01	.01	.01	.04	--	<10	--	<20	390	--
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
11...	220	--	80	--	--	--	--	--	--	--	--
NOV											
01...	620	--	100	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
29...	230	--	190	.00	.00	.00	.00	.00	.00	.00	0
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	110	--	40	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
31...	140	--	200	--	--	--	--	--	--	--	--
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
28...	220	--	40	--	--	--	--	--	--	--	--
MAR											
28...	340	--	50	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
17...	250	--	60	--	--	--	--	--	--	--	--
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
23...	300	--	120	--	--	--	--	--	--	--	--
JUN											
20...	520	--	160	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25...	2500	<1.0	20	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
22...	750	--	10	--	--	--	--	--	--	--	--
SEP											
18...	620	--	30	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

07250000 LEE CREEK NEAR VAN BUREN, AR

LOCATION.--Lat 35°29'40", long 94°26'58", in SE¼ sec.21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., Hydrologic Unit 11110104, on right bank 300 ft (91 m) west of Arkansas-Oklahoma State line, 3.2 mi (5.1 km) downstream from Webbers Creek, 6.8 mi (10.9 km) northwest of Van Buren, and at mile 7.8 (12.6 km).

DRAINAGE AREA.--426 mi^2 (1,103 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1930 to June 1937, October 1950 to current year.

REVISED RECORDS.--WSP 1211: 1931(M). WSP 1441: 1935(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 408.04 ft (124.371 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). September 1930 to June 1937, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--34 years (1930-36, 1950-78), 504 ft^3/s (14.3 m^3/s), 16.07 in/yr (408 mm/yr), 365,100 acre-ft/yr (450 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,600 ft^3/s (2,280 m^3/s) May 6, 1960, gage height, 30.30 ft (9.235 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 15, 1945, reached a stage of about 35.0 ft (10.67 m), from floodmarks, discharge, about 112,000 ft^3/s (3,170 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 13,000 ft^3/s (370 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	1300	*25,500	722	18.93	5.770
May 7	1700	20,200	572	16.71	5.093

Minimum discharge, 0.02 ft^3/s (0.001 m^3/s) Sept. 20, 21, gage height, 0.28 ft (0.085 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	17	93	89	224	1160	685	845	124	163	3.8	.41
2	102	21	283	87	209	965	598	1320	117	141	3.7	.32
3	76	26	274	82	195	1050	534	2040	177	121	3.4	.22
4	59	165	228	78	180	922	656	2960	145	103	2.9	.18
5	48	153	214	75	168	748	778	2060	882	88	2.9	.18
6	41	120	245	72	160	645	820	1460	1610	77	3.1	.16
7	36	99	231	69	157	863	930	11700	1670	71	3.1	.12
8	41	90	199	66	157	1960	782	6080	924	61	3.0	.10
9	39	111	178	63	156	1650	674	2740	616	53	2.8	.09
10	35	367	160	61	152	1260	777	1750	441	46	2.5	.07
11	30	253	141	61	147	1020	2340	1250	338	39	2.4	.07
12	30	194	126	61	164	840	1530	990	272	31	2.3	.10
13	28	158	134	59	2590	725	1140	926	220	27	2.2	.11
14	26	134	550	57	2240	729	902	729	182	22	1.9	.11
15	23	116	669	55	1290	749	750	557	157	19	1.6	.11
16	21	104	461	65	940	895	653	447	133	16	1.4	.10
17	18	211	372	99	760	889	614	381	114	14	1.4	.09
18	18	200	312	162	633	791	658	336	860	12	1.4	.06
19	14	152	258	140	524	692	648	294	2410	11	1.3	.04
20	14	128	220	177	467	610	536	262	1090	9.2	1.1	.03
21	13	114	191	161	425	620	466	241	3000	7.7	.93	.12
22	13	188	169	150	378	809	414	412	2730	6.1	.77	.16
23	12	179	152	143	364	806	383	487	1340	5.4	.63	.18
24	11	152	139	146	422	16200	343	382	828	6.0	.51	.15
25	11	129	126	201	548	5350	303	288	570	5.9	.44	.13
26	9.7	111	116	393	578	2770	270	230	426	5.0	.39	.11
27	9.9	95	106	383	525	1920	241	192	337	4.5	.37	.10
28	9.8	86	98	333	917	1460	218	170	275	4.7	.54	.09
29	8.6	79	95	292	---	1160	205	150	227	5.0	.77	.07
30	8.4	80	93	266	---	950	205	128	191	4.7	.69	.06
31	10	---	90	244	---	802	---	111	---	4.4	.56	---
TOTAL	975.4	4032	6723	4440	15676	52000	20053	41918	22906	1183.6	54.80	3.84
MEAN	31.5	134	217	143	560	1677	668	1352	764	38.2	1.77	.13
MAX	160	367	669	393	2590	16200	2340	11700	3000	163	3.8	.41
MIN	8.4	17	90	55	147	610	205	111	114	4.4	.37	.03
CFSM	.07	.32	.51	.34	1.32	3.94	1.57	3.17	1.79	.09	.004	.000
IN.	.09	.35	.59	.39	1.37	4.54	1.75	3.66	2.00	.10	.00	.00
AC-FT	1930	8000	13340	8810	31090	103100	39780	83140	45430	2350	109	7.6

CAL YR 1977	TOTAL	95802.60	MEAN 262	MAX 16900	MIN 1.7	CFSM .62	IN 8.37	AC-FT 190000				
WTR YR 1978	TOTAL	169965.64	MEAN 466	MAX 16200	MIN .03	CFSM 1.09	IN 14.84	AC-FT 337100				

07250000 LEE CREEK NEAR VAN BUREN, AR--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
04...	1028	--	55	--	--	20.5	--	--	--	--	--	--
11...	9827	9827	--	109	--	20.0	5	8.9	97	1.9	120	55
18...	1028	--	18	--	--	19.0	--	--	--	--	--	--
NOV												
29...	1028	--	76	--	--	9.5	--	--	--	--	--	--
JAN												
10...	1028	--	62	--	--	2.0	--	--	--	--	--	--
FEB												
22...	1028	--	369	--	--	1.0	--	--	--	--	--	--
MAR												
28...	9827	9827	--	67	7.1	14.0	35	10.6	102	1.7	430	60
APR												
05...	1028	--	792	--	--	16.0	--	--	--	--	--	--
17...	9827	9827	--	76	6.9	20.0	15	9.0	98	3.8	50	47
MAY												
19...	1028	--	291	--	--	18.5	--	--	--	--	--	--
JUN												
26...	1028	--	445	--	--	25.5	--	--	--	--	--	--
AUG												
08...	1028	--	3.2	--	--	27.0	--	--	--	--	--	--
22...	9827	9827	--	104	7.7	29.0	5	8.5	109	3.3	--	--
SEP												
19...	1028	--	.05	--	--	32.0	--	--	--	--	--	--
22...	9827	9827	--	--	--	--	--	--	--	--	87	<5

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
11...	41	11	3.0	6.2	1.4	35	2.0	11	74	10	<.05	<.05
18...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
10...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	1.0	4.5	64	12	.32	.01
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
17...	20	5.3	1.3	2.6	1.0	24	7.0	4.5	55	4	.04	.01
MAY												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	3.0	5.0	72	5	.01	.01
SEP												
19...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--

ARKANSAS RIVER BASIN

07250000 LEE CREEK NEAR VAN BUREN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
11...	<.05	<.05	.04	<5	<10	<5	10	720	<10	66	40
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	.33	.06	.10	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
17...	.05	.05	--	<5	<10	20	<20	880	170	110	40
MAY											
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
22...	.02	--	.03	--	--	--	--	--	--	--	--
SEP											
19...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

07250500 ARKANSAS RIVER AT VAN BUREN, AR

LOCATION.--Lat 35°25'42", long 94°21'27", in SE¼SW¼ sec.25, T.9 N., R.32 W., Crawford County, Hydrologic Unit 11110104, near left bank on upstream side of bridge on U.S. Highway 64 and 71 at Van Buren, 1.4 mi (2.3 km) downstream from Lee Creek, 8.7 mi (14.0 km) downstream from Poteau River, and at mile 316.5 (509.2 km).

DRAINAGE AREA.--150,482 mi^2 (242,126 km^2), of which 22,241 mi^2 (57,604 km^2) is probably noncontributing.

PERIOD OF RECORD.--October 1945 to September 1970, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1945 to September 1970.
SEDIMENT RECORDS: October 1967 to September 1970.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
11...	9827	9827	521	--	21.0	30	9.4	104	2.5	20500	120	36
NOV												
01...	9827	9827	544	--	18.0	--	8.1	85	3.0	6000	--	--
29...	9827	9827	444	--	--	45	10.7	--	2.2	17500	--	--
JAN												
04...	9827	9827	481	8.2	14.0	10	14.1	136	3.7	1700	130	40
31...	9827	9827	555	7.8	6.0	25	14.6	117	4.8	1700	--	--
FEB												
28...	9827	9827	445	7.5	10.0	--	12.5	111	3.8	3600	--	--
MAR												
28...	9827	9827	565	7.7	14.0	80	10.7	103	3.2	2600	--	--
APR												
17...	9827	9827	439	7.7	20.0	35	9.9	108	2.8	2900	100	27
MAY												
23...	9827	9827	468	7.7	25.0	40	8.4	100	3.7	18400	--	--
JUN												
20...	9827	9827	1000	7.9	28.0	20	7.8	99	3.7	6000	--	--
JUL												
25...	9827	9827	798	8.2	32.0	20	9.5	128	6.3	7000	150	44
AUG												
22...	9827	9827	768	8.6	31.0	5	9.6	128	4.2	1900	--	--
SEP												
18...	9827	9827	822	8.1	29.0	5	8.3	106	4.0	5400	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
11...	7.0	52	4.4	84	28	80	310	23	.52	<.05	.53
NOV											
01...	--	--	--	--	33	85	312	--	.49	<.05	.50
29...	--	--	--	--	28	55	273	--	.59	<.05	.60
JAN											
04...	8.0	42	4.0	100	32	65	261	9	.60	<.05	.61
31...	--	--	--	--	43	87	305	13	.53	.01	.54
FEB											
28...	--	--	--	--	32	75	299	44	.56	.02	.58
MAR											
28...	--	--	--	--	36	99	349	80	.53	.02	.55
APR											
17...	7.8	33	3.4	91	42	51	250	45	.71	.05	.76
MAY											
23...	--	--	--	--	30	68	291	59	.75	.01	.76
JUN											
20...	--	--	--	--	49	200	578	61	.41	.03	.44
JUL											
25...	10	100	4.4	110	26	180	471	24	.10	.04	.14
AUG											
22...	--	--	--	--	52	150	449	17	.01	.01	.02
SEP											
18...	--	--	--	--	49	170	441	20	.07	.01	.08

07250500 ARKANSAS RIVER AT VAN BUREN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
11...	.07	.73	.80	1.3	5.9	.15	<10	<5	10	1400	10
NOV											
01...	.20	.80	1.0	1.5	6.6	--	--	--	--	--	--
29...	.08	1.4	1.5	2.1	9.3	.17	--	--	--	--	--
JAN											
04...	<.05	--	.80	1.4	6.2	.13	<10	<5	20	450	<10
31...	.10	.90	1.0	1.5	6.8	.12	--	--	--	--	--
FEB											
28...	.23	.77	1.0	1.6	7.0	.22	--	--	--	--	--
MAR											
28...	.15	2.8	3.0	3.6	16	.24	--	--	--	--	--
APR											
17...	.16	.64	.80	1.6	6.9	--	<10	90	<20	2500	<10
MAY											
23...	.11	.99	1.1	1.9	8.2	.05	--	--	--	--	--
JUN											
20...	.26	1.0	1.3	1.7	7.7	.16	--	--	--	--	--
JUL											
25...	.01	.99	1.0	1.1	5.0	.06	<10	<5	<20	840	<10
AUG											
22...	--	--	<.10	--	--	.09	--	--	--	--	--
SEP											
18...	.05	.15	.20	.28	1.2	.09	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
11...	87	--	30	--	--	--	--	--	--	--	--
NOV											
01...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
29...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	61	--	50	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
17...	110	--	60	--	--	--	--	--	--	--	--
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25...	83	<1.0	10	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
18...	--	--	--	--	--	--	--	--	--	--	--

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, Hydrologic Unit 11110104, in Dam No. 13 control house on right bank, and at mile 308.9 (497.0 km).

DRAINAGE AREA.--150,547 mi² (389,917 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Prior to October 1969, published as 07250500 Arkansas River at Van Buren. Gage-height records collected at Fort Smith, 16.3 mi (26.2 km) upstream from 1879 to December 1955, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: 1934-36. WSP 1561: 1954. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage and gate position recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Dec. 20, 1969, recording gage at site 7.9 mi (12.7 km) upstream at datum 372.36 ft (113.495 m) higher.

REMARKS.--Records good. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream.

AVERAGE DISCHARGE.--51 years, 31,390 ft³/s (889 m³/s), 22,740,000 acre-ft/yr (28,000 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 850,000 ft³/s (24,100 m³/s) May 12, 1943, gage height, 38.0 ft (11.58 m), from floodmark, site and datum then in use; maximum gage height, 38.10 ft (11.613 m), former site and datum, Apr. 16, 1945; no flow Nov. 2, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1833, that of Apr. 16, 1945, and maximum discharge since at least 1833, that of May 12, 1943. Flood in June 1833 reached a stage of 38.0 ft (11.6 m) on Fort Smith gage, from records collected by National Weather Service. Flood of Apr. 16, 1927, reached a stage of 35.0 ft (10.67 m), former site and datum, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 101,000 ft³/s (2,860 m³/s) May 8; maximum tailwater elevation, 386.50 ft (117.805 m) May 8; minimum daily, 31 ft³/s (0.88 m³/s) Dec. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23300	19500	15700	2400	8630	28400	75400	34400	54400	28800	10900	3880
2	35000	18700	14000	3330	7660	33400	74600	44000	66600	27800	10400	1860
3	22200	19400	3530	11200	8260	42400	71100	58800	40000	29900	10800	222
4	25500	34400	5870	7380	6030	42700	63200	75800	39900	28100	5760	3180
5	36600	33600	22600	11900	1850	38800	68900	74500	42200	21600	232	13200
6	35700	22000	18000	11200	12900	39400	70100	55300	43400	21000	181	10600
7	15100	28100	12200	3660	10600	42600	67400	66400	49800	20000	5910	11600
8	19400	27900	11100	4090	14100	60300	65800	101000	55500	19100	8480	9860
9	10700	36400	9880	12100	11300	64800	64700	95700	54900	25800	6970	2640
10	20400	34100	13000	11900	12400	48900	74800	74300	42500	21100	6160	144
11	27900	42500	3540	10300	3890	42200	83800	66400	40100	16100	6870	6140
12	3670	50900	7900	6570	5010	41900	86800	57800	40000	18100	2490	6500
13	10200	41500	6520	6490	24400	43000	83500	55900	39800	18900	1320	4920
14	19700	46700	8770	5860	33800	40300	79100	47200	34400	19900	11300	5460
15	16600	42700	10300	6230	35500	37600	78200	43100	27400	15900	10600	4070
16	6450	42300	8110	11300	38400	31700	77800	42400	27600	199	8960	1840
17	26100	42500	3770	13000	32100	19800	78000	30400	33900	13100	7210	3250
18	22800	46000	31	18300	28400	20800	78300	34200	35700	9070	7070	6640
19	22000	43100	5070	17600	21100	22100	72400	38100	47800	12900	1260	11800
20	14000	41700	9190	15900	30100	30100	62400	38200	54200	13600	187	4240
21	15500	42400	4600	7510	31000	30700	47700	40000	56700	11700	9310	5930
22	1080	37500	3890	3150	26600	35000	42300	62400	43700	2040	10700	4250
23	5030	37700	8400	7980	24800	28300	42100	72500	65700	3300	8500	169
24	13800	31000	32	9600	24200	87700	34500	70100	65900	14200	12500	136
25	17500	26900	32	8830	14300	94200	26000	59800	58900	12700	13200	5370
26	12900	31700	47	12800	15300	85200	29400	53500	47600	11900	7480	6480
27	11000	19800	8740	11200	28800	59200	22300	53200	43100	13900	107	4290
28	11500	23800	6190	11800	31300	65900	17800	58700	37800	14000	11000	3710
29	114	24100	9680	5020	---	68000	25900	44700	35600	7040	8650	3450
30	82	23700	11900	16500	---	69800	22500	50000	33000	162	6780	184
31	12300	---	2870	12400	---	76700	---	50000	---	13500	11500	---
TOTAL	517526	1018900	245412	297630	542730	1471900	1786800	1748800	1378100	485611	222787	146015
MEAN	16690	33960	7917	9601	19380	47480	59560	56410	45940	15660	7187	4867
MAX	36600	50900	22600	18300	38400	94200	86800	101000	66600	29900	13200	13200
MIN	82	18700	31	2400	1850	19800	17800	30400	27400	162	107	136
AC-FT	1027000	2021000	486800	590300	1077000	2920000	3544000	3469000	2733000	963200	441900	289600

CAL YR 1977 TOTAL 7604068 MEAN 20830 MAX 106000 MIN 31 AC-FT 15080000
WTR YR 1978 TOTAL 9862211 MEAN 27020 MAX 101000 MIN 31 AC-FT 19560000

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued
(National tritium and pesticide station)
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to current year.
WATER TEMPERATURES: October 1969 to September 1972, March 1974 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1970 to current year

INSTRUMENTATION.--Water-quality monitor since October 1969.

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and were analyzed by Environmental Protection Agency. Sediment records furnished by Corps of Engineers, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 950 mg/L Oct. 27, 1970; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 347,245 tons (315,021 tonnes) Dec. 10, 1971; minimum daily, 0 tons (0 tonnes) on many days.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean 220 mg/L Mar. 25; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 56,000 tons (50,800 tonnes) Mar. 25; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS (MG/L AS CACO3) (00900)
OCT												
11...	1028	1028	--	--	--	--	--	--	--	--	--	--
19...	1028	1028	19400	567	7.8	16.5	--	9.4	99	K3200	3000	130
NOV												
15...	1028	1028	--	--	--	--	--	--	--	--	--	--
16...	1028	1028	43600	387	7.7	13.0	--	10.1	99	K2400	>2000	120
DEC												
07...	1028	--	21900	--	--	5.0	--	--	--	--	--	--
16...	1028	1028	8200	414	7.9	6.0	--	12.0	99	1800	1600	130
29...	1028	1028	--	--	--	--	--	--	--	--	--	--
FEB												
16...	1028	1028	--	--	--	--	--	--	--	--	--	--
16...	1028	1028	42100	733	7.5	1.0	--	13.9	101	K120	780	150
28...	1028	--	31700	--	--	5.5	--	--	--	--	--	--
MAR												
17...	1028	1028	--	--	--	--	--	--	--	--	--	--
APR												
04...	1028	1028	62300	443	7.6	13.5	--	10.4	103	250	720	130
07...	1028	1028	--	--	--	--	--	--	--	--	--	--
MAY												
16...	1028	1028	--	--	--	--	--	--	--	--	--	--
16...	1028	1028	42900	403	7.5	19.0	--	8.6	96	1400	130	110
JUN												
28...	1028	--	39800	--	--	29.0	--	--	--	--	--	--
JUL												
06...	1028	1028	4610	635	7.9	29.5	22	6.9	91	720	K64	140
AUG												
01...	1028	1028	--	--	--	--	--	--	--	--	--	--
01...	1028	1028	8330	816	7.8	29.5	6.7	7.7	101	730	K7	160
30...	1028	1028	3790	759	7.8	26.5	15	6.8	86	1500	<7	150
SEP												
20...	1028	80010	3990	867	8.1	27.0	10	8.1	102	K3600	K16	160

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
19...	32	41	6.9	57	48	2.2	4.3	120	0	98	3.0	35
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
16...	17	35	6.8	28	34	1.1	4.3	120	0	98	3.8	32
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
16...	38	40	6.9	35	36	1.3	4.3	110	0	90	2.2	35
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	48	42	10	88	56	3.2	4.1	120	0	98	6.1	48
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
17...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	35	39	6.8	39	40	1.5	3.5	110	0	90	4.4	34
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	29	33	6.7	37	41	1.5	3.4	99	0	81	5.0	34
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	60	44	8.1	73	52	2.7	3.8	--	--	83	--	46
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	59	45	11	100	57	3.5	4.3	--	--	99	--	60
30...	36	42	10	91	57	3.3	4.2	--	--	110	--	55
SEP												
20...	54	49	10	110	59	3.7	4.2	--	--	110	--	56

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
OCT												
19...	90	.2	7.7	292	301	.40	15300	.51	.02	--	--	--
NOV												
16...	41	.2	7.3	214	214	.29	25200	.60	.04	--	--	--
DEC												
16...	51	.2	7.8	233	234	.32	5160	.65	.11	--	--	--
FEB												
16...	140	.2	5.1	384	397	.52	43600	.43	.09	--	--	--
APR												
04...	58	.2	5.8	258	241	.35	43400	.61	.08	1.5	1.6	.66
MAY												
16...	55	.1	5.4	231	223	.31	26800	.74	.06	.67	.73	.24
JUL												
06...	120	.2	4.7	350	350	.48	4360	.48	.03	.74	.77	.28
AUG												
01...	160	.2	.4	444	441	.60	9990	.04	.01	.69	.70	.18
30...	140	.3	1.0	410	410	.56	4200	.15	.10	1.0	1.1	.00
SEP												
20...	170	.3	1.3	468	467	.64	5040	.08	.06	2.2	2.3	1.8

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT												
19...	.38	--	--	.15	.08	2	0	2	400	400	0	20
NOV												
16...	.30	--	--	.14	.09	--	--	--	--	--	--	--
DEC												
16...	.37	--	--	.13	.10	--	--	--	--	--	--	--
FEB												
16...	--	--	--	.12	.07	--	--	--	--	--	--	--
APR												
04...	.94	2.2	9.8	.09	.05	--	--	--	--	--	--	--
MAY												
16...	.49	1.5	6.5	.11	.07	--	--	--	--	--	--	--
JUL												
06...	.49	1.3	5.5	.08	.04	--	--	--	--	--	--	--
AUG												
01...	.52	.74	3.3	.08	.02	3	0	3	300	0	300	2
30...	1.1	1.2	5.5	.09	.05	3	0	3	200	0	200	<1
SEP												
20...	.54	2.4	11	.08	.02	3	1	2	100	0	100	1

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
OCT												
19...	17	3	20	20	0	<50	<50	0	20	12	8	1100
NOV												
16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	1	1	10	10	0	0	0	0	36	32	4	670
30...	0	<1	0	0	0	<1	0	<1	18	11	7	410
SEP												
20...	0	1	10	0	10	1	0	1	28	24	4	370

DATE	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)
OCT												
19...	--	30	<100	<100	0	90	90	0	.0	.0	.0	0
NOV												
16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	640	30	11	9	2	70	70	0	.0	.0	.0	0
30...	400	10	7	7	0	60	60	2	.0	.0	.0	0
SEP												
20...	350	20	7	7	0	60	60	0	.0	.0	.0	0

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG) (01076)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	PCB, TOTAL (UG/L) (39516)
OCT												
19...	0	0	<10	<10	0	20	20	0	--	4.5	.7	--
NOV												
16...	--	--	--	--	--	--	--	--	--	--	--	ND
DEC												
16...	--	--	--	--	--	--	--	--	5.4	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	4.6	--	--	ND
APR												
04...	--	--	--	--	--	--	--	--	5.6	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	6.1	--	--	ND
JUL												
06...	--	--	--	--	--	--	--	--	7.3	--	--	--
AUG												
01...	0	0	0	0	0	10	0	10	--	5.4	.9	--
30...	0	0	0	0	0	50	0	50	--	6.4	.8	ND
SEP												
20...	0	0	0	0	0	40	0	40	--	--	--	--

DATE	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	AROCLOR TOT. IN BOT MAT 1254 PCB SERIES (UG/KG) (39507)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	ATRAZINE, TOTAL (UG/L) (39630)	CHLORDANE, TOTAL (UG/L) (39350)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)
OCT												
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
16...	--	1	ND	ND	--	ND	ND	ND	ND	ND	ND	ND
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	ND	--	ND	ND	--	ND	--	ND	--	ND
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	ND	--	--	ND	--	ND	--	ND	--	ND
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON, TOTAL (UG/L) (39570)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN TOTAL (UG/L) (39380)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)
OCT												
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL (UG/L) (39540)
OCT												
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	ND	--	ND	--	ND	--	ND	--	ND	--	ND
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL COULSON COND. (UG/L) (39025)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT												
19...	--	--	--	--	--	--	--	--	--	44	2310	90
NOV												
16...	ND	--	ND	ND	ND	ND	ND	ND	ND	45	5300	92
DEC												
16...	--	--	--	--	--	--	--	--	--	28	620	85
FEB												
16...	--	ND	ND	--	ND	--	ND	ND	ND	31	3520	66
APR												
04...	--	--	--	--	--	--	--	--	--	37	6220	87
MAY												
16...	ND	ND	ND	ND	ND	ND	--	--	--	74	8570	93
JUL												
06...	--	--	--	--	--	--	--	--	--	58	722	49
AUG												
01...	--	--	--	--	--	--	--	--	--	44	990	43
30...	--	--	ND	--	ND	--	--	--	--	23	235	61
SEP												
20...	--	--	--	--	--	--	--	--	--	17	183	67

ARKANSAS RIVER BASIN

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	581	530	556	587	577	583						
2	606	545	577	585	568	579						
3	613	590	602	564	538	551						
4	606	580	591	532	500	526						
5	583	491	550	539	527	532						
6	487	422	447	554	535	542						
7	422	406	416	611	558	580						
8	426	418	423	630	614	624						
9	453	435	442	651	617	639						
10	465	411	449	654	582	620						
11	479	429	467	580	501	524						
12	502	489	495	511	474	489						
13	510	460	499	468	432	447						
14	519	501	510	426	399	409						
15	538	526	531	398	385	391						
16	543	527	535	402	387	395						
17	555	527	545	429	407	417						
18	562	537	553	452	433	440						
19	577	529	567	462	449	455						
20	593	465	576	449	428	437						
21	605	579	594	439	430	435						
22	600	582	591	448	441	444						
23	590	578	584	505	452	478						
24	587	578	583	516	503	509						
25	583	571	576	512	510	511						
26	578	560	572	---	---	---						
27	579	558	569	---	---	---						
28	579	570	574	---	---	---						
29	584	565	576	---	---	---						
30	584	575	580	---	---	---						
31	584	570	579	---	---	---						
MONTH	613	406	539	654	385	502						

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							---	---	---	463	451	456
2							---	---	---	456	445	451
3							---	---	---	448	417	430
4							458	425	441	440	425	432
5							451	409	430	442	433	438
6							400	353	371	435	397	416
7							410	353	375	398	336	377
8							490	417	457	382	316	356
9							521	490	508	353	340	347
10							519	491	515	363	341	352
11							513	489	500	392	361	375
12							493	452	486	419	391	400
13							494	473	485	434	418	425
14							481	450	468	424	402	413
15							458	432	443	412	398	404
16							450	441	443	426	403	410
17							452	391	441	462	427	445
18							452	435	445	500	460	477
19							450	428	440	513	499	507
20							441	426	431	513	497	506
21							440	428	432	516	507	513
22							455	444	450	517	503	511
23							457	447	452	502	475	484
24							465	451	456	496	478	485
25							472	458	465	515	492	499
26							470	458	465	540	521	532
27							470	462	466	---	---	---
28							471	461	465	---	---	---
29							471	455	464	---	---	---
30							459	449	454	---	---	---
31							---	---	---	---	---	---
MONTH							521	353	454	540	316	440

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							816	785	796	730	709	720
2							797	776	788	730	710	721
3							798	778	786	730	710	723
4							805	784	794	731	710	722
5							802	786	797	736	715	726
6							798	777	789	741	721	732
7							789	768	780	752	731	741
8							785	759	776	762	742	753
9							777	756	766	763	747	757
10							783	763	773	769	651	744
11							780	759	769	775	656	746
12							776	755	766	773	762	768
13							773	752	762	784	767	773
14							791	759	767	783	772	778
15							775	749	762	784	772	783
16							769	754	760	806	773	787
17							769	744	756	805	778	788
18							758	739	749	816	788	801
19							758	743	752	844	821	827
20							768	743	753	867	850	856
21							758	743	750	837	811	824
22							763	738	751	780	774	778
23							757	733	748	784	751	766
24							757	714	731	781	743	760
25							727	709	719	772	746	756
26							737	718	729	762	743	753
27							746	722	736	760	728	741
28							746	736	740	744	720	735
29							745	736	739	748	723	738
30							740	714	728	751	732	742
31							730	709	718	---	---	---
MONTH							816	709	759	867	651	761

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.0	25.0	25.0	19.0	18.5	19.0						
2	25.0	24.0	24.0	18.5	18.0	18.0						
3	23.5	23.0	23.5	18.0	18.0	18.0						
4	23.0	22.5	22.5	18.0	18.0	18.0						
5	22.5	21.5	22.0	18.0	18.0	18.0						
6	21.5	21.0	21.5	18.5	18.0	18.0						
7	21.0	20.5	21.0	18.5	18.5	18.5						
8	21.0	20.5	20.5	18.5	18.0	18.5						
9	20.5	20.0	20.5	18.0	16.5	17.5						
10	20.5	20.0	20.0	16.5	15.5	16.0						
11	20.5	19.0	19.5	15.5	14.5	14.5						
12	19.5	18.5	19.0	14.5	13.5	14.0						
13	19.0	18.0	18.5	13.5	13.0	13.0						
14	18.5	18.0	18.0	13.0	12.5	13.0						
15	18.0	17.5	18.0	13.0	13.0	13.0						
16	18.0	17.5	17.5	13.5	13.0	13.0						
17	17.5	17.0	17.5	13.5	13.0	13.0						
18	18.0	17.5	17.5	13.0	13.0	13.0						
19	18.0	17.5	17.5	13.0	13.0	13.0						
20	17.5	17.0	17.5	14.0	13.5	13.5						
21	17.5	17.0	17.5	13.5	13.0	13.0						
22	19.0	17.5	17.5	13.0	12.5	12.5						
23	17.5	17.5	17.5	12.5	12.5	12.5						
24	17.5	17.5	17.5	13.0	12.5	12.5						
25	18.0	17.5	17.5	12.5	12.5	12.5						
26	18.5	17.5	17.5	---	---	---						
27	18.5	17.5	18.0	---	---	---						
28	18.0	18.0	18.0	---	---	---						
29	18.5	18.0	18.0	---	---	---						
30	18.0	18.0	18.0	---	---	---						
31	19.0	18.0	18.5	---	---	---						
MONTH	25.0	17.0	19.0	19.0	12.5	15.0						

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							---	---	---	17.5	17.5	17.5
2							---	---	---	17.5	17.0	17.0
3							---	---	---	17.0	16.5	16.5
4							14.5	14.0	14.5	16.5	15.5	16.0
5							15.0	14.5	14.5	15.5	14.0	15.0
6							16.0	14.5	15.0	15.0	14.5	15.0
7							17.0	15.5	16.0	16.0	15.0	15.5
8							17.5	16.0	16.5	17.0	15.5	16.0
9							17.5	17.0	17.0	17.5	15.5	17.0
10							17.5	17.0	17.0	18.5	17.0	17.5
11							17.5	16.5	17.0	18.5	17.5	18.0
12							17.5	14.0	16.5	19.5	18.5	19.0
13							17.5	16.0	16.5	19.5	18.5	19.0
14							17.5	15.0	16.5	20.0	18.5	19.0
15							17.5	16.5	17.0	20.5	19.5	20.0
16							17.0	16.5	17.0	20.5	19.5	20.0
17							17.0	16.5	17.0	19.5	18.5	19.0
18							17.5	16.5	17.0	19.0	18.5	18.5
19							16.5	15.5	16.0	20.5	19.0	19.5
20							15.5	15.0	15.0	21.0	20.0	20.5
21							15.5	14.5	15.0	21.0	20.5	21.0
22							15.0	14.0	14.5	21.0	20.5	21.0
23							15.5	14.0	14.5	22.5	21.0	21.5
24							16.0	14.0	15.5	23.0	22.0	22.5
25							16.0	15.0	15.5	24.0	23.0	23.5
26							16.5	15.0	16.0	23.5	23.5	23.5
27							17.0	16.0	16.5	---	---	---
28							17.5	16.5	17.0	---	---	---
29							17.5	17.0	17.0	---	---	---
30							17.5	16.5	17.0	---	---	---
31							---	---	---	---	---	---
MONTH							17.5	14.0	16.0	24.0	14.0	19.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							30.0	28.5	30.0	27.0	26.5	26.5
2							30.0	29.5	29.5	27.5	26.5	26.5
3							29.5	29.0	29.5	30.5	26.5	27.5
4							29.0	28.0	28.5	30.5	27.0	27.5
5							28.0	27.5	27.5	30.0	27.5	28.0
6							29.5	27.0	28.0	29.0	28.0	28.5
7							29.0	27.0	27.5	29.5	28.0	28.5
8							29.5	27.0	27.5	29.0	27.5	28.0
9							29.5	27.0	28.0	29.5	27.5	27.5
10							30.0	27.0	28.0	28.0	27.0	27.5
11							29.5	27.5	28.0	27.0	27.0	27.0
12							29.0	27.5	28.0	27.5	27.0	27.0
13							30.5	27.5	28.5	27.0	26.5	26.5
14							31.0	27.5	28.5	27.0	26.5	26.5
15							29.5	29.0	29.0	27.0	26.5	26.5
16							30.0	29.0	29.5	28.0	26.5	27.0
17							30.0	29.0	29.5	27.5	26.5	27.0
18							30.0	29.0	29.5	27.5	27.0	27.0
19							29.5	29.0	29.5	27.5	27.0	27.5
20							30.5	28.5	29.5	27.5	27.0	27.5
21							30.0	28.5	29.0	27.5	27.0	27.0
22							30.5	28.0	29.0	27.5	26.5	27.0
23							30.5	28.5	29.0	28.0	26.0	27.0
24							30.0	28.5	29.5	27.5	26.0	26.5
25							30.5	29.0	29.5	27.0	25.5	26.0
26							31.0	29.0	30.0	26.0	25.5	25.5
27							30.0	29.0	29.5	26.0	25.0	25.5
28							29.5	28.5	29.0	26.5	25.0	25.5
29							28.0	27.5	28.0	25.5	25.0	25.5
30							28.5	27.0	27.5	25.5	25.0	25.0
31							28.0	26.5	27.0	---	---	---
MONTH							31.0	26.5	28.5	30.5	25.0	27.0

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR—CONTINUED

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	23300	30	1890	19500	30	1580	15700	20	848
2	35000	60	5670	18700	30	1510	14000	20	756
3	22200	30	1800	19900	30	1610	3530	0	.00
4	25500	40	2750	34900	60	5650	5820	10	157
5	36600	60	5930	33600	60	5440	22600	30	1830
6	35700	60	5780	22000	30	1780	18000	20	972
7	16500	20	891	28100	40	3030	12200	10	329
8	19400	30	1570	27900	40	3010	11100	10	300
9	10700	10	289	36400	60	5900	9880	10	267
10	20400	30	1650	39100	70	7390	13000	20	702
11	27900	40	3010	42500	80	9180	3540	0	.00
12	5670	10	153	50900	90	12400	7900	10	213
13	10200	10	275	41800	70	7900	6520	10	176
14	19700	30	1600	46700	80	10100	8770	10	237
15	16600	20	896	42700	80	9220	10300	10	278
16	6450	10	174	42300	70	7990	8110	10	219
17	26100	40	2820	42500	80	9180	3770	0	.00
18	22800	30	1850	46000	80	9940	31	0	.00
19	22000	30	1780	43100	80	9310	5070	10	137
20	14000	20	756	41700	70	7880	9190	10	248
21	15500	20	837	42400	70	8010	4600	0	.00
22	1080	0	.00	37500	60	6070	3890	0	.00
23	5030	10	136	37700	60	6110	8400	10	227
24	13800	20	745	31000	50	4180	32	0	.00
25	17500	20	945	26900	40	2910	32	0	.00
26	12900	20	697	31700	50	4280	47	0	.00
27	11000	10	297	19800	30	1600	8740	10	236
28	11500	10	310	23800	40	2570	6190	10	167
29	114	0	.00	24100	40	2600	9680	10	261
30	82	0	.00	23700	30	1920	11900	10	321
31	12300	10	332	---	---	---	2870	0	.00
TOTAL	517526	---	45833.00	1018900	---	170250	245412	---	8881.00

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	2400	0	.00	8630	10	233	28400	40	3070
2	3330	0	.00	7660	10	207	33400	50	4510
3	11200	10	302	8260	10	223	42400	70	8010
4	7380	10	199	6030	10	163	42700	80	9220
5	11900	10	321	1850	0	.00	38800	70	7330
6	11200	10	302	12900	20	697	39400	70	7450
7	3880	0	.00	10600	10	286	42600	80	9200
8	4090	0	.00	14100	20	761	60300	120	19500
9	12100	10	327	11300	10	305	64800	130	22700
10	11900	10	321	12400	10	335	48900	90	11900
11	10300	10	278	3890	0	.00	42200	70	7980
12	6570	10	177	5010	10	135	41900	70	7920
13	6490	10	175	24400	40	2640	43000	80	9290
14	5860	10	158	33800	60	5480	40300	70	7620
15	6230	10	168	35500	60	5750	37600	60	6090
16	11300	10	305	38400	70	7260	31700	50	4280
17	13000	20	702	32100	50	4330	19800	30	1600
18	18300	20	988	28400	40	3070	20800	30	1680
19	17500	20	945	21100	30	1710	22100	30	1790
20	15900	20	859	30100	50	4060	30100	50	4060
21	7510	10	203	31000	50	4180	30700	50	4140
22	3160	0	.00	26600	40	2870	35000	60	5670
23	7980	10	215	24800	40	2680	28300	40	3060
24	9600	10	259	24200	40	2610	87700	190	45000
25	8830	10	238	14300	20	772	94200	220	56000
26	12800	10	346	15300	20	826	85200	190	43700
27	11200	10	302	28800	50	3890	59200	120	19200
28	11800	10	319	31300	50	4230	65900	130	23100
29	5020	10	136	---	---	---	68000	140	25700
30	16500	20	891	---	---	---	69800	140	26400
31	12400	10	335	---	---	---	76700	160	33100
TOTAL	297630	---	9771.00	542730	---	59703.00	1471900	---	440270

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	75400	160	32600	34400	60	5570	54400	100	14700
2	74600	160	32200	44000	80	9500	66600	140	25200
3	71100	150	28800	58800	110	17500	40000	70	7560
4	63200	130	22200	75800	160	32700	39900	70	7540
5	68900	140	26000	74500	160	32200	42200	70	7980
6	70100	150	28400	55300	110	16400	43400	80	9370
7	67400	140	25500	66400	130	23300	49800	90	12100
8	65800	130	23100	101000	270	73600	55500	110	16500
9	64700	130	22700	95700	230	59400	54900	100	14800
10	74800	160	32300	74300	160	32100	42500	80	9180
11	83800	180	40700	66400	130	23300	40100	70	7580
12	86800	190	44500	57800	110	17200	40000	70	7560
13	83500	180	40600	55900	110	16600	39800	70	7520
14	79100	170	36300	47200	90	11500	34400	60	5570
15	78200	170	35900	43100	80	9310	27400	40	2960
16	77800	170	35700	42400	70	8010	27600	40	2980
17	78000	170	35800	30400	50	4100	33900	60	5490
18	78300	170	35900	34200	60	5540	35700	60	5780
19	72400	150	29300	38100	70	7200	47800	90	11600
20	62400	120	20200	38200	70	7220	54200	100	14600
21	47700	90	11600	40000	70	7560	56700	110	16800
22	42300	70	7990	62400	120	20200	63700	120	20600
23	42100	70	7960	72500	150	29400	65700	130	23100
24	34500	60	5590	70100	150	28400	65900	140	24900
25	26000	40	2810	59800	120	19400	58900	110	17500
26	29400	50	3970	53500	100	14400	47600	90	11600
27	22300	30	1810	53200	100	14400	43100	80	9310
28	17800	20	961	58700	110	17400	37800	60	6120
29	25900	40	2800	44700	80	9660	35600	60	5770
30	22500	30	1820	50000	90	12200	33000	50	4450
31	---	---	---	50000	90	12200	---	---	---
TOTAL	1786800	---	676011	1748800	---	597470	1378100	---	336720

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	28800	50	3890	10900	10	294	3880	0	.00
2	27800	40	3000	10400	10	281	1860	0	.00
3	29900	50	4040	10800	10	292	222	0	.00
4	28100	40	3030	5760	10	156	3180	0	.00
5	21600	30	1750	232	0	.00	13200	20	713
6	21000	30	1700	181	0	.00	10600	10	286
7	20000	30	1620	5910	10	160	11600	10	313
8	19100	30	1550	8480	10	229	9860	10	266
9	25800	40	2790	6970	10	188	2640	0	.00
10	21100	30	1710	6160	10	166	148	0	.00
11	16100	20	869	6870	10	185	6140	10	166
12	18100	20	977	2490	0	.00	6500	10	175
13	18900	30	1530	1320	0	.00	4920	0	.00
14	19900	30	1610	11300	10	305	5460	10	147
15	15900	20	859	10600	10	286	4070	0	.00
16	199	0	.00	8960	10	242	1840	0	.00
17	13100	20	707	7210	10	195	3250	0	.00
18	9070	10	245	7070	10	191	6640	10	179
19	12900	20	697	1260	0	.00	11800	10	319
20	13800	20	745	187	0	.00	4240	0	.00
21	11700	10	316	9310	10	251	5930	10	160
22	2040	0	.00	10700	10	289	4250	0	.00
23	3300	0	.00	8500	10	229	169	0	.00
24	14200	20	767	12500	20	675	136	0	.00
25	12700	20	686	13200	20	713	5370	10	145
26	11900	10	321	7480	10	202	6480	10	175
27	13900	20	751	107	0	.00	4290	0	.00
28	14000	20	756	11000	10	297	3710	0	.00
29	7040	10	190	8650	10	234	3450	0	.00
30	162	0	.00	6780	10	183	184	0	.00
31	13500	20	729	11500	10	310	---	---	---
TOTAL	485611	---	37835.00	222787	---	6553.00	146015	---	3044.00

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

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

PHYTOPLANKTON

DATE TIME	DEC 16,77 0930		APR 4,78 0815		MAY 16,78 0900		JUL 6,78 0900		AUG 1,78 0900		SEP 20,78 0800	
TOTAL CELLS/ML	2200		1800		2800		1200		85000		17000	
DIVERSITY: DIVISION	1.8		1.6		1.2		1.2		1.0		1.2	
.CLASS	2.1		1.8		1.2		1.2		1.0		1.2	
..ORDER	2.4		1.9		1.6		1.2		1.7		1.6	
...FAMILY	2.7		2.4		2.1		1.3		1.9		2.0	
....GENUS	3.2		2.7		3.0		1.7		2.1		2.6	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	*	0	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	180	14	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	110	4	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	--	-	*	0	--	-
....MICRACTINIUM	44	2	68	4	29	1	--	-	1000	1	830	5
...OOCYSTACEAE												
....ANKISTRODESMUS	81	4	150	8	72	3	29	2	*	0	*	0
....CHLORELLA	22	1	--	-	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	14	1	--	-	--	-	*	0
....CLOSTERIOPSIS	*	0	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	59	3	--	-	--	-	--	-	--	-	460	3
....KIRCHNERIELLA	--	-	14	1	--	-	--	-	--	-	*	0
....OOCYSTIS	--	-	--	-	230	8	--	-	*	0	210	1
....QUADRIGULA	--	-	--	-	29	1	--	-	--	-	--	-
....SELENASTRUM	*	0	27	2	72	3	--	-	*	0	*	0
...SCENEDESMACEAE												
....CRUCIGENIA	30	1	--	-	--	-	--	-	--	-	370	2
....SCENEDESMUS	130	6	54	3	240	9	--	-	1700	2	1400	8
....TETRASTRUM	170	8	110	6	110	4	--	-	--	-	92	1
..TETRASPORALES												
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-	460	3
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CARTERIA	--	-	--	-	14	1	--	-	--	-	*	0
....CHLAMYDOMONAS	120	5	--	-	130	5	--	-	*	0	--	-
...PHACOTACEAE												
....PTEROMONAS	--	-	--	-	14	1	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....SPONDYLOSIUM	*	0	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	100	5	180	10	560#	20	100	8	2100	2	760	5
....MELOSIRA	280	13	95	5	960#	35	760#	61	15000#	17	550	3
..PENNALES												
...FRAGILARIACEAE												
....SYNEDRA	--	-	68	4	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	14	1	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....NAVICULA	--	-	14	1	--	-	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	44	2	14	1	43	2	--	-	920	1	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	*	0	--	-	--	-	--	-	--	-	--	-
....OCHROMONAS	180	8	--	-	--	-	--	-	--	-	--	-
...SYNURACEAE												
....SYNURA	--	-	54	3	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONIDALES												
...CRYPTOMONODACEAE												
....CRYPTOMONAS	160	7	--	-	--	-	--	-	--	-	--	-

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

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--CONTINUED

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

PHYTOPLANKTON

DATE TIME	DEC 16,77 0930		APR 4,78 0815		MAY 16,78 0900		JUL 6,78 0900		AUG 1,78 0900		SEP 20,78 0800	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROCCOCCALES												
...CHROCCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	42000#	49	9000#	54
....ANACYSTIS	780#	35	--	-	110	4	--	-	1000	1	1100	7
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	850	5
....APHANIZOMENON	--	-	--	-	--	-	--	-	1400	2	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	870#	49	--	-	180	14	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-	19000#	23	280	2
..CHROCCOCCALES												
...CHROCCOCCACEAE												
....GOMPHOSPHAERIA	15	1	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	41	2	--	-	--	-	--	-	--	-
....TRACHELOMONAS	*	0.	--	-	14	1	--	-	--	-	--	-

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
MAY 16	42	.157	.157	.000	.130	.000	.000	POLYETHYLENE STRIP
AUG. 1	26	8.35	8.19	.16	7.07	.310	.023	POLYETHYLENE

07252000 MULBERRY RIVER NEAR MULBERRY, AR

LOCATION.--Lat 35°34'37", long 94°00'55", in SE¼SW¼ sec.31, T.11 N., R.28 W., Franklin County, Hydrologic Unit 11110201, on left bank 0.6 mi (1.0 km) upstream from Mill Creek, 5.7 mi (9.2 km) north of Mulberry, and at mile 11.3 (18.2 km).

DRAINAGE AREA.--373 mi^2 (966 km^2).

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

REVISED RECORDS.--WSP 1007: 1943. WSP 1211: 1941-42. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 432.75 ft (131.902 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Apr. 19, 1940, nonrecording gage at site 500 ft (152 m) downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 541 ft^3/s (15.3 m^3/s), 19.70 in/yr (500 mm/yr), 392,000 acre-ft/yr (483 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,800 ft^3/s (1,609 m^3/s) Nov. 25, 1973, gage height, 21.34 ft (6.504 m); no flow at times in 1939, 1943, 1953-54, 1956, 1964, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1927 reached a stage of 22.0 ft (6.71 m), discharge, about 59,000 ft^3/s (1,700 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,100 ft^3/s (739 m^3/s) Mar. 24 at 1500 hours, gage height, 15.02 ft (4.578 m), no other peak above base of 10,000 ft^3/s (280 m^3/s); minimum, 0.71 ft^3/s (0.020 m^3/s) Aug. 27, 28, Sept. 3, gage height, 0.50 ft (0.15 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	663	106	625	185	353	1030	816	649	189	34	4.9	.85
2	409	205	792	171	335	1020	710	1250	215	29	4.4	.80
3	282	2900	709	162	310	1400	623	1440	211	26	6.1	.74
4	210	1520	635	147	288	1290	603	3070	182	23	6.5	.80
5	169	960	836	141	268	1110	584	2450	184	21	6.0	.88
6	145	700	836	139	253	983	588	1780	2060	18	4.9	38
7	128	549	690	136	240	1040	634	3380	2010	16	3.9	31
8	133	458	623	132	231	1650	601	3870	1120	15	3.3	11
9	126	1010	565	125	224	1600	573	2340	770	14	2.7	4.2
10	114	1050	475	118	217	1400	581	1660	546	12	2.3	2.6
11	100	754	420	110	207	1210	815	1290	427	11	2.0	2.8
12	85	601	386	109	208	1030	816	1120	340	9.6	1.9	3.1
13	78	501	382	106	864	893	753	1050	263	8.5	1.7	6.5
14	71	433	791	101	1440	925	668	785	209	7.5	1.5	4.6
15	64	383	884	100	1150	868	596	628	172	12	1.4	3.2
16	58	2570	790	118	985	1300	542	515	147	12	1.3	2.4
17	54	2330	716	206	857	1270	501	441	124	11	1.3	2.1
18	49	1370	616	257	760	1130	601	386	111	9.0	1.2	1.9
19	46	995	538	255	663	1010	596	362	108	7.6	1.1	1.7
20	42	787	476	240	602	884	517	330	104	6.6	1.1	1.5
21	39	851	418	226	555	1560	470	763	102	5.9	1.0	1.4
22	36	798	372	214	495	1550	435	962	97	5.7	.97	1.3
23	33	672	332	204	466	1300	434	1530	87	5.7	.92	1.3
24	36	579	305	205	469	14900	412	1000	78	5.7	.92	1.1
25	274	499	281	288	482	5620	364	718	69	5.1	.83	1.1
26	264	439	257	434	488	3110	327	552	61	4.7	.78	1.1
27	189	392	229	442	481	2210	296	445	54	5.0	.75	1.1
28	152	350	209	427	790	1710	267	375	48	4.8	.75	1.0
29	130	310	194	407	---	1390	254	317	43	4.2	.89	.9
30	113	295	197	394	---	1140	250	264	39	3.7	.91	.9
31	106	---	196	375	---	956	---	221	---	4.5	.90	---
TOTAL	4398	25367	15775	6674	14681	58489	16227	35943	10170	357.8	69.12	131.9
MEAN	142	846	509	215	524	1887	541	1159	339	11.5	2.23	4.4
MAX	663	2900	884	442	1440	14900	816	3870	2060	34	6.5	3
MIN	33	106	194	100	207	868	250	221	39	3.7	.75	.7
CFSM	.38	2.27	1.37	.58	1.41	5.06	1.45	3.11	.91	.03	.006	.0
IN.	.44	2.53	1.57	.67	1.46	5.83	1.62	3.58	1.01	.04	.01	.0
AC-FT	8720	50320	31290	13240	29120	116000	32190	71290	20170	710	137	26

CAL YR 1977	TOTAL	147062.60	MEAN 403	MAX 17300	MIN 3.3	CFSM 1.08	IN 14.67	AC-FT 291700				
WTR YR 1978	TOTAL	188282.88	MEAN 516	MAX 14900	MIN .74	CFSM 1.38	IN 18.78	AC-FT 373500				

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR

LOCATION.--Lat 35°28'21", long 93°48'46", in SW¼ sec.6, T.9 N., R.26 W., Franklin County, Hydrologic Unit 11110201, at Ozark Dam 1.0 mi (1.6 km) southeast of Ozark, and at mile 272.9 (439.1 km).

DRAINAGE AREA.--151,801 mi² (393,165 km²) of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--August 1962 to August 1963, January 1965 to March 1966, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January 1965 to March 1966.
SUSPENDED SEDIMENT DISCHARGE: October 1974 to September 1975.

COOPERATION.--Chemical records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Sediment records prior to October 1974 and after September 1975 available from Corps of Engineers, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	633	8.0	24.0	60	8.1	95	1.8	1600	120
NOV											
01...	9827	9827	543	7.8	18.0	--	8.4	88	.9	96	--
29...	9827	9827	451	8.1	10.0	40	10.7	95	1.0	540	--
JAN											
04...	9827	9827	450	8.0	5.0	20	12.6	98	2.4	17	120
31...	9827	9827	503	7.9	1.0	20	14.1	99	3.7	<5	--
FEB											
28...	9827	9827	595	7.8	5.0	50	--	102	3.4	56	--
MAR											
28...	9827	9827	544	7.8	11.0	70	11.2	101	3.2	310	--
APR											
25...	9827	9827	460	8.0	16.0	20	10.5	105	2.0	200	110
MAY											
23...	9827	9827	491	--	23.0	45	8.1	93	1.0	4200	--
JUN											
20...	9827	9827	649	8.1	25.0	30	8.0	95	2.0	170	--
JUL											
25...	9827	9827	765	8.1	30.0	20	7.1	93	2.3	33	150
AUG											
22...	9827	9827	809	8.2	29.0	15	7.1	91	2.3	7	--
SEP											
18...	9827	9827	791	8.2	26.0	5	7.6	93	2.6	360	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C, DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	34	8.0	75	3.4	83	37	110	385	30	.61
NOV										
01...	--	--	--	--	--	32	88	321	22	--
29...	--	--	--	--	--	28	59	--	24	.61
JAN										
04...	37	7.0	34	4.0	98	29	56	248	11	.62
31...	--	--	--	--	--	39	73	294	13	.57
FEB										
28...	--	--	--	--	--	37	110	361	39	.58
MAR										
28...	--	--	--	--	--	29	97	281	141	.40
APR										
25...	29	7.6	37	3.4	96	36	54	--	44	.73
MAY										
23...	--	--	--	--	--	31	74	305	73	.78
JUN										
20...	--	--	--	--	--	46	180	514	33	.38
JUL										
25...	44	10	98	4.4	110	36	180	458	--	--
AUG										
22...	--	--	--	--	--	45	160	480	15	.05
SEP										
18...	--	--	--	--	--	50	170	419	19	.09

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
04...	<.05	.62	.11	.19	<10	<5	--	2500	50	--
NOV										
01...	<.05	.58	--	--	<10	--	<10	1000	--	86
29...	<.05	.62	.07	.14	<10	--	20	1900	--	150
JAN										
04...	<.05	.63	<.05	.13	<10	<5	<20	580	10	45
31...	.01	.58	.11	.10	<10	--	30	1000	--	68
FEB										
28...	.02	.60	.24	.20	<10	--	<20	2400	--	130
MAR										
28...	.02	.42	.11	.27	<10	--	<20	4200	--	180
APR										
25...	.02	.75	.04	.17	<10	<5	50	2300	60	120
MAY										
23...	.01	.79	.10	.04	<10	--	40	3100	--	200
JUN										
20...	.03	.41	.09	.11	<10	--	70	1700	--	97
JUL										
25...	--	--	--	.04	<10	10	<20	820	20	86
AUG										
22...	.01	.06	.13	.09	<10	--	<20	400	--	100
SEP										
18...	.01	.10	.09	.09	20	--	40	1200	--	70

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	70	--	--	--	--	--	--	--	--
NOV										
01...	--	30	.00	.00	.00	.00	.00	.00	.00	0
29...	--	40	--	--	--	--	--	--	--	--
JAN										
04...	--	30	--	--	--	--	--	--	--	--
31...	--	80	--	--	--	--	--	--	--	--
FEB										
28...	--	40	--	--	--	--	--	--	--	--
MAR										
28...	--	60	--	--	--	--	--	--	--	--
APR										
25...	--	70	--	--	--	--	--	--	--	--
MAY										
23...	--	40	--	--	--	--	--	--	--	--
JUN										
20...	--	90	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	10	--	--	--	--	--	--	--	--
AUG										
22...	--	<10	--	--	--	--	--	--	--	--
SEP										
18...	--	330	--	--	--	--	--	--	--	--

07257000 BIG PINEY CREEK NEAR DOVER, AR

LOCATION.--Lat 35°32'58", long 98°09'30", in SW¼NE¼ sec.6, T.10 N., R.20 W., Pope County, Hydrologic Unit 11110202, on left bank 7.2 mi (11.6 km) downstream from Indian Creek, 10.4 mi (16.7 km) north of Dover, and at mile 28.0 (45.1 km).

DRAINAGE AREA.--274 mi^2 (710 km^2).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1967, published as Piney Creek near Dover.

REVISED RECORDS.--WRD Ark. 1972: 1949(M), 1953(M), 1957(M), 1961(M), 1966(M), 1968-69(M).

GAGE.--Water-stage recorder. Datum of gage is 487.66 ft (148.639 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--28 years, 397 ft^3/s (11.2 m^3/s), 19.68 in/yr (500 mm/yr), 287,000 acre-ft/yr (355 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,600 ft^3/s (2,110 m^3/s) Dec. 10, 1971, gage height 28.7 ft (8.75 m), from floodmark, from rating curve extended above 45,000 ft^3/s (1,270 m^3/s); no flow at times in 1952-54, 1956, 1964, 1969, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 24, 1949, reached a stage of 25.6 ft (7.80 m), from floodmarks, discharge, about 55,800 ft^3/s (1,580 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft^3/s (200 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 24	1200	*12,000	340	12.61	3.844
May 7	1800	8,100	229	10.50	3.200

Minimum discharge, 0.25 ft^3/s (0.007 m^3/s) Sept. 30, gage height, 0.74 ft (0.226 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	90	797	152	285	785	516	1670	104	15	5.1	3.7
2	236	171	728	144	270	890	452	1300	189	14	5.2	2.7
3	162	1820	610	129	248	1330	395	1540	187	13	4.1	1.7
4	122	903	514	115	229	1090	380	2270	138	11	6.5	1.5
5	97	580	720	116	215	907	352	1710	126	9.7	8.6	1.5
6	83	431	659	115	202	782	367	1210	1330	11	9.3	1.3
7	72	344	548	114	193	1040	380	3940	1550	11	8.9	1.1
8	74	285	503	109	186	1720	347	3700	719	8.4	7.9	.92
9	69	283	455	102	179	1420	332	1930	452	6.9	7.0	.83
10	60	301	369	92	172	1140	417	1270	317	5.4	6.0	.67
11	48	242	330	87	167	955	905	939	242	5.1	4.8	.94
12	40	209	303	88	169	791	772	811	197	4.1	6.0	1.3
13	35	185	457	86	477	766	665	653	147	3.2	4.8	1.7
14	30	166	1760	86	1080	1090	561	493	114	3.0	3.7	1.5
15	27	153	1190	85	845	955	492	396	91	3.4	3.0	1.7
16	23	2680	942	108	715	1150	438	326	76	3.2	2.1	1.4
17	21	1570	811	182	614	1050	395	274	63	2.7	1.6	1.2
18	19	929	658	181	545	918	550	237	52	2.3	1.3	1.0
19	19	680	556	166	478	804	495	283	46	2.0	1.3	.88
20	17	544	475	158	442	698	423	242	43	1.7	1.4	.74
21	16	608	400	149	407	977	377	315	36	2.6	1.0	.62
22	16	502	346	140	356	1010	346	348	77	3.8	.71	.52
23	16	440	312	134	344	877	359	495	71	3.2	.56	.55
24	171	383	286	157	357	6050	325	377	54	3.9	.46	.57
25	580	331	254	338	379	3230	289	296	44	3.6	.38	.58
26	296	288	224	437	376	1870	256	240	33	3.2	8.1	.52
27	200	257	199	400	370	1350	231	196	27	3.7	11	.46
28	153	232	189	378	693	1060	209	163	22	7.4	8.5	.39
29	125	207	169	365	---	864	200	146	18	8.6	6.4	.32
30	106	214	171	331	---	705	198	148	16	6.7	5.9	.26
31	96	---	169	304	---	595	---	133	---	6.5	5.1	---
TOTAL	3410	16028	16109	5548	11502	38869	12424	28051	6581	189.3	146.71	33.07
MEAN	110	534	520	179	411	1254	414	905	219	6.11	4.73	1.10
MAX	580	2680	1760	437	1080	6050	905	3940	1550	15	11	3.7
MIN	16	90	169	85	167	595	198	133	16	1.7	.38	.26
CFSM	.40	1.95	1.90	.65	1.50	4.58	1.51	3.30	.80	.02	.02	.004
IN.	.46	2.18	2.19	.75	1.56	5.28	1.69	3.81	.89	.03	.02	.00
AC-FT	6760	31790	31950	11000	22810	77100	24640	55640	13050	375	291	66

CAL YR 1977	TOTAL	130558.80	MEAN 358	MAX 16500	MIN 3.8	CFSM 1.31	IN 17.73	AC-FT 259000				
WTR YR 1978	TOTAL	138891.08	MEAN 381	MAX 6050	MIN .26	CFSM 1.39	IN 18.86	AC-FT 275500				

07258000 ARKANSAS RIVER AT DARDANELLE, AR

LOCATION.--Lat 35°13'34", long 93°08'58", in SW¼ sec.29, T.7 N., R.20 W., Pope County, Hydrologic Unit 11110203, near left bank on upstream side of bridge on State Highway 7 at Dardanelle, 1.0 mi (1.6 km) upstream from Whig Creek, 2.0 mi downstream from Dardanelle Dam, 4.7 mi (7.6 km) downstream from Illinois Bayou, and at mile 219.5 (353.2 km).

DRAINAGE AREA.--153,670 mi² (398,010 km²) of which 22,241 mi² (57,604 km²) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1937 to current year. Gage-height records collected at same site since 1886 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder at bridge, and totalizing flowmeters on each turbine in Dardanelle Dam 2.0 mi (3.2 km) upstream. Datum of gage is 280.16 ft (85.393 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 11, 1939, nonrecording gage at same site at datum 10.0 ft (3.048 m) higher. Jan. 11, 1939, to Dec. 10, 1970, water-stage recorder at same site at datum 10.0 ft (3.048 m) higher.

REMARKS.--Records good. Flow regulated by many locks, dams, and reservoirs upstream. Daily discharge below about 50,000 ft³/s (1,420 m³/s) determined from flow through turbines.

AVERAGE DISCHARGE.--41 years, 35,800 ft³/s (1,010 m³/s), 25,940,000 acre-ft/yr (32,000 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 683,000 ft³/s (19,300 m³/s) May 13, 14, 1943; maximum gage height, 43.60 ft (13.289 m), in gage well, 44.1 ft (13.44 m) from outside gage, May 25, 1943, present datum; minimum daily discharge, 43 ft³/s (1.22 m³/s) Dec. 6, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 43.0 ft (13.11 m), present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 138,000 ft³/s (3,910 m³/s) May 8, gage height, 24.63 ft (7.507 m); minimum daily, 120 ft³/s (3.40 m³/s) Dec. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27800	17700	19300	2700	14600	35500	76100	40600	44200	15300	9230	4940
2	29000	19700	17200	1180	8650	34000	79700	44100	53000	20400	9470	3390
3	28600	31500	15100	7640	9980	41900	75900	40900	58400	28600	11400	2280
4	28600	41000	6990	9240	5850	42200	70300	67800	43300	24500	4480	2630
5	28800	36700	19300	10000	1650	46700	63000	81000	42500	27600	1340	11000
6	28900	26100	29500	8320	13600	45900	66400	81800	41600	23100	334	12200
7	26400	29200	18000	7890	17500	47100	68700	70600	41100	21100	5470	8920
8	18600	26900	17300	9550	16200	62200	68500	127000	50200	20200	6860	10100
9	21800	41400	16200	19800	17800	72300	60300	107000	51600	21100	7800	2110
10	19700	41900	13900	15800	14800	64700	72000	84700	50400	20400	8980	1730
11	20400	42500	10600	8980	5020	55700	90800	72800	42200	19600	7250	7790
12	24300	42600	9680	8580	3170	41800	78300	71300	42300	21800	2800	7000
13	16400	42100	11400	5630	25500	47100	85100	67200	43000	22200	1840	4420
14	14900	41900	7570	7810	30900	52000	81800	50500	39200	16200	11600	5240
15	6970	41600	9610	5510	31500	44300	78400	48000	28900	5280	8400	6800
16	601	41300	12100	11300	43100	40200	78300	43400	23500	4180	6450	3450
17	17200	48800	8730	16400	40700	40100	78800	35700	24000	14100	7620	2830
18	19800	53300	2730	17500	41000	35500	83700	37500	29700	9530	8480	8280
19	23100	49800	12800	18400	41100	18300	80500	43000	43400	10200	2460	7240
20	25300	49600	15900	17500	38000	24600	71100	44100	43100	11600	937	1680
21	24000	45500	11500	13000	29000	31000	51900	45700	44300	12300	5230	5210
22	4260	40800	11200	8430	27400	40100	41500	45200	56100	4550	9210	5050
23	972	38900	14400	15000	25600	40400	40100	45100	55500	3400	10100	1100
24	10300	40700	1020	7310	22600	74000	40900	69600	60600	13600	11400	2270
25	13500	38300	3260	12000	18200	132000	41100	65700	61800	13000	12200	7330
26	13300	30500	120	18900	16300	109000	25800	50600	55100	15600	6650	5940
27	13600	11500	9020	20100	33700	88400	22800	49800	43400	14800	132	2520
28	12800	27900	10300	13400	38700	63800	22500	49900	43300	16600	9690	4540
29	1500	22500	16900	6990	---	66700	21900	53500	40600	8550	1630	4210
30	211	25600	14400	11000	---	70500	22800	43200	33800	256	10100	1190
31	9360	---	2660	17800	---	71400	---	42300	---	7500	10700	---
TOTAL	530974	1087800	368690	353660	632120	1679400	1841000	1819600	1334100	467846	210443	153390
MEAN	17130	36260	11890	11410	22580	54170	61370	58700	44470	15090	6788	5113
MAX	29000	53300	29500	20100	43100	132000	90800	127000	61800	28600	12200	12200
MIN	211	11500	120	1180	1650	18300	21900	35700	23500	256	132	1100
AC-FT	1053000	2158000	731300	701500	1254000	3331000	3652000	3609000	2646000	928000	417400	304200

CAL YR 1977 TOTAL 8242567 MEAN 22580 MAX 192000 MIN 90 AC-FT 16350000
WTR YR 1978 TOTAL 10479023 MEAN 28710 MAX 132000 MIN 120 AC-FT 20790000

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-61, August 1961 to August 1963, July 1971 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1948 to September 1961.
WATER TEMPERATURES: October 1948 to September 1961, July 1971 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1967 to current year.

COOPERATION.--Sediment records furnished by Corps of Engineers, Little Rock, Ark. Chemical records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,310 micromhos Apr. 4, 1954; minimum daily, 107 micromhos Mar. 21, 1955.
WATER TEMPERATURES: Maximum daily, 34.0°C Aug. 17, 1952; minimum daily, 0.0°C on several days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,640 mg/L Apr. 26, 1970; minimum daily mean, 0 mg/L on many days during 1973-75.
SEDIMENT LOADS: Maximum daily, 1,120,000 tons (1,016,000 tonnes) Apr. 26, 1970; minimum daily, 0 tons (0 tonnes) on many days during 1973-75.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 31.0°C July 8; minimum daily, 1.0°C on several days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 80 mg/L May 8; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 27,400 tons (24,900 tonnes) May 8; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	527	8.0	25.0	45	7.6	90	2.6	230	110
NOV											
01...	9827	9827	525	7.7	19.0	--	7.4	75	1.1	300	--
29...	9827	9827	407	8.1	10.0	40	10.1	89	.8	170	--
JAN											
04...	9827	9827	355	7.9	6.0	20	12.0	96	1.6	13	96
31...	9827	9827	415	8.0	2.0	15	14.2	103	3.1	<4	--
FEB											
28...	9827	9827	620	8.2	5.0	20	--	113	3.9	5	--
MAR											
28...	9827	9827	391	7.7	11.0	75	13.0	117	3.9	160	--
APR											
25...	9827	9827	418	7.9	17.0	20	9.9	102	2.1	35	99
MAY											
23...	9827	9827	417	--	23.0	45	8.0	92	1.8	140	--
JUN											
20...	9827	9827	904	8.1	25.1	30	6.9	82	1.6	140	--
JUL											
25...	9827	9827	659	8.1	30.0	20	5.8	76	1.9	<4	140
AUG											
22...	9827	9827	777	7.8	29.0	10	5.2	67	2.1	--	--
SEP											
18...	9827	9827	791	7.9	26.0	10	6.2	76	1.9	2400	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C, DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	31	7.0	59	4.8	68	33	87	314	34	.55
NOV										
01...	--	--	--	--	--	31	88	329	29	--
29...	--	--	--	--	--	25	49	--	28	.58
JAN										
04...	28	6.0	29	3.5	79	22	45	195	8	.57
31...	--	--	--	--	--	36	51	241	9	.56
FEB										
28...	--	--	--	--	--	37	110	354	12	.39
MAR										
28...	--	--	--	--	--	28	61	255	45	.36
APR										
25...	27	7.2	33	3.2	89	33	49	--	32	.61
MAY										
23...	--	--	--	--	--	28	57	259	48	.72
JUN										
20...	--	--	--	--	--	46	180	537	32	.38
JUL										
25...	41	9.0	79	4.4	98	36	150	379	--	--
AUG										
22...	--	--	--	--	--	53	150	453	17	.09
SEP										
18...	--	--	--	--	--	52	170	426	21	.14

07258000 ARKANSAS RIVER AT DARDANELLE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
04...	<.05	.56	.08	.16	<10	8	--	2000	20	--
NOV										
01...	<.05	.57	--	--	--	--	--	--	--	--
29...	<.05	.59	.07	.14	--	--	--	--	--	--
JAN										
04...	<.05	.58	.05	.13	<10	<5	20	760	10	80
31...	.01	.57	.05	.07	--	--	--	--	--	--
FEB										
28...	.01	.40	.04	.12	--	--	--	--	--	--
MAR										
28...	.02	.38	.18	.20	--	--	--	--	--	--
APR										
25...	.01	.62	.05	.15	<10	<5	<20	1600	<10	100
MAY										
23...	.01	.73	.10	.07	--	--	--	--	--	--
JUN										
20...	.03	.41	.09	.11	--	--	--	--	--	--
JUL										
25...	--	--	--	.05	<10	20	<20	1100	<10	110
AUG										
22...	.07	.16	.06	.09	--	--	--	--	--	--
SEP										
18...	.06	.20	.02	.09	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	60	--	--	--	--	--	--	--	--
NOV										
01...	--	--	.00	.00	.00	.00	.00	.00	.00	0
29...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	20	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
28...	--	--	--	--	--	--	--	--	--	--
MAR										
28...	--	--	--	--	--	--	--	--	--	--
APR										
25...	--	20	--	--	--	--	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07258000 ARKANSAS RIVER AT DARDANELLE, AR--CONTINUED

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	24.5	17.0	17.0	---	---	6.0	6.0	1.0	1.0	4.0	4.0
2	25.0	24.0	17.5	17.0	---	---	6.0	5.5	1.0	1.0	4.0	4.0
3	24.0	23.5	17.5	17.5	---	---	5.5	5.5	1.0	1.0	4.0	4.0
4	23.5	23.0	17.5	17.5	---	---	5.5	5.5	1.5	1.0	4.0	4.0
5	23.0	22.5	17.5	17.0	---	---	5.5	5.5	1.5	1.5	4.0	3.5
6	22.5	22.0	17.0	17.0	---	---	5.5	5.5	1.5	1.5	4.0	3.5
7	22.0	21.5	17.0	17.0	---	---	6.0	5.5	1.5	1.5	4.0	4.0
8	21.5	21.0	17.0	17.0	---	---	6.5	6.0	1.5	1.0	4.0	4.0
9	21.0	21.0	17.0	16.5	---	---	6.0	6.0	1.0	1.0	4.5	4.0
10	21.0	20.0	16.5	15.0	---	---	6.0	5.5	1.0	1.0	4.5	4.0
11	20.0	20.0	15.0	14.0	---	---	5.5	5.0	1.0	1.0	5.0	4.5
12	20.0	19.0	14.0	13.5	---	---	5.0	4.5	1.0	1.0	5.0	5.0
13	19.0	19.0	13.5	13.0	---	---	4.5	4.5	1.5	1.0	5.5	5.0
14	19.0	18.0	13.0	13.0	---	---	4.5	4.0	1.5	1.5	6.0	5.5
15	18.0	18.0	13.0	12.5	---	---	4.0	4.0	1.5	1.5	6.0	6.0
16	18.0	17.5	12.5	12.5	---	---	4.0	4.0	2.0	1.5	6.0	6.0
17	17.5	17.0	12.5	12.5	---	---	4.0	3.5	2.0	2.0	7.0	6.5
18	17.5	17.0	12.5	12.5	---	---	3.5	3.5	2.0	2.0	7.0	7.0
19	17.5	17.0	12.5	12.5	---	---	3.5	3.0	2.0	2.0	7.5	7.0
20	17.0	17.0	12.5	12.0	---	---	2.5	2.0	2.0	2.0	8.0	7.5
21	17.0	16.5	12.5	12.0	---	---	2.5	2.0	2.0	1.5	9.5	8.0
22	17.0	17.0	12.0	12.0	---	---	2.0	1.5	1.5	1.5	10.0	9.5
23	17.5	17.0	12.0	12.0	6.0	6.0	2.0	1.5	1.5	1.5	10.5	10.0
24	17.5	17.0	12.0	12.0	6.0	6.0	2.5	2.0	2.0	1.5	12.0	11.5
25	17.0	17.0	12.0	11.5	6.0	6.0	1.5	1.5	2.0	2.0	12.0	11.5
26	18.0	17.0	---	---	6.0	6.0	2.0	1.5	3.5	2.0	11.5	11.0
27	18.0	18.0	---	---	6.0	5.5	1.5	1.0	3.5	3.0	11.0	10.5
28	17.5	17.5	---	---	6.0	5.5	1.0	1.0	4.0	3.5	11.0	11.0
29	17.5	18.0	---	---	6.0	6.0	1.0	1.0	---	---	12.0	11.0
30	17.5	17.5	---	---	6.0	6.0	1.0	1.0	---	---	12.5	11.5
31	17.5	17.0	---	---	6.0	6.0	1.0	1.0	---	---	13.0	12.5
MONTH	25.0	16.5	17.5	11.5	6.0	5.5	6.5	1.0	4.0	1.0	13.0	3.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	13.0	18.0	17.0	25.0	25.0	29.5	29.0	30.0	30.0	28.0	27.5
2	14.0	13.5	18.0	18.0	25.5	25.5	30.0	29.5	30.0	29.5	28.0	27.5
3	14.5	14.0	18.0	17.0	25.5	26.5	30.0	29.5	30.0	29.5	28.0	27.5
4	15.0	14.5	17.5	17.0	25.5	25.5	30.0	29.5	30.0	29.5	29.0	27.0
5	16.0	15.0	16.5	16.0	25.5	25.5	29.5	29.5	29.5	29.0	27.5	27.0
6	17.0	16.0	16.5	16.0	25.5	25.5	30.0	29.5	30.0	28.5	27.0	27.0
7	17.0	17.0	16.5	16.0	25.0	25.0	30.0	29.5	29.0	28.5	27.0	26.5
8	17.5	17.0	17.0	16.5	25.5	25.0	31.0	30.0	29.0	28.0	27.0	27.0
9	18.0	17.5	17.0	16.0	25.0	25.0	31.0	30.5	28.5	28.0	27.0	26.5
10	18.0	18.0	18.0	17.5	25.0	25.0	30.5	30.0	28.0	28.0	27.5	27.0
11	18.0	17.5	18.5	18.0	25.0	25.0	30.5	30.0	28.0	27.5	27.0	26.5
12	17.5	17.0	18.5	18.5	25.5	25.0	30.5	30.0	28.0	27.0	26.5	26.5
13	18.0	17.5	18.5	18.5	26.0	25.5	30.5	30.5	28.0	27.5	27.0	26.5
14	18.0	18.0	18.5	18.5	26.0	25.5	30.5	30.0	28.0	27.0	27.0	26.5
15	18.0	18.0	19.0	18.5	26.0	25.5	30.5	29.5	28.0	27.5	27.0	26.5
16	18.0	18.0	19.5	19.0	26.0	25.5	30.5	30.5	28.0	27.5	27.0	26.5
17	18.0	17.5	20.0	19.5	25.5	25.5	30.0	29.5	28.0	28.0	27.0	26.5
18	17.0	16.5	20.0	20.0	26.0	25.5	29.5	29.5	28.0	28.0	26.5	26.5
19	17.0	16.0	20.0	20.0	26.5	26.0	29.5	29.0	28.5	28.0	26.5	26.5
20	16.0	15.5	21.0	20.0	26.5	26.5	29.5	29.0	29.0	28.0	27.0	26.5
21	15.5	15.5	21.0	21.0	26.5	26.5	29.5	29.0	30.0	29.0	27.0	26.5
22	15.5	15.5	21.5	21.0	26.5	26.5	30.0	29.0	29.5	29.0	26.5	26.0
23	15.5	15.0	22.0	21.5	26.5	26.5	30.0	29.0	29.5	29.0	26.5	26.0
24	16.0	14.5	23.0	22.5	27.0	26.5	29.5	29.0	29.5	29.0	26.0	26.0
25	16.5	16.0	23.0	23.0	27.0	27.0	30.0	29.0	30.0	29.5	26.0	25.5
26	16.5	16.0	24.0	23.0	27.5	27.0	30.0	29.5	29.5	29.5	25.5	25.0
27	17.0	16.5	24.5	24.0	28.0	27.5	29.5	29.0	30.5	29.0	25.5	25.0
28	17.0	16.5	25.0	24.5	28.5	28.0	29.5	29.0	30.0	29.0	25.5	25.5
29	16.5	16.0	25.5	24.5	29.0	28.5	29.5	29.0	29.0	28.5	25.5	25.5
30	17.0	16.5	25.5	25.0	29.5	29.0	30.0	29.5	28.5	27.5	25.5	25.0
31	---	---	25.0	25.0	---	---	30.0	29.0	28.0	28.0	---	---
MONTH	18.0	13.0	25.5	16.0	29.5	25.0	31.0	29.0	30.5	27.0	29.0	25.0

07258000 ARKANSAS RIVER AT DARDANELLE, AR--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	27800	20	1500	17700	10	478	19300	10	521
2	29000	20	1570	19700	10	532	17200	10	464
3	28600	20	1540	31500	20	1700	15100	10	408
4	28600	20	1540	41000	30	3320	6990	0	.00
5	28800	20	1560	36700	20	1980	19300	10	521
6	28900	20	1560	26100	20	1410	29500	20	1590
7	26400	20	1430	29200	20	1580	18000	10	486
8	18600	10	502	26900	20	1450	17300	10	467
9	21800	10	589	41400	30	3350	16200	10	437
10	19700	10	532	41900	30	3390	13900	10	375
11	20400	10	551	42500	30	3440	10600	10	286
12	24300	20	1310	42600	30	3450	9680	10	261
13	16400	10	443	42100	30	3410	11400	10	308
14	14900	10	402	41900	30	3390	7570	0	.00
15	6970	0	.00	41600	30	3370	9610	10	259
16	601	0	.00	41300	30	3350	12100	10	327
17	17200	10	464	48800	30	3950	8730	10	236
18	19800	10	535	53300	30	4320	2730	0	.00
19	23100	10	624	49800	30	4030	12800	10	346
20	25300	20	1370	49600	30	4020	15900	10	429
21	24000	20	1300	45500	30	3690	11500	10	310
22	4260	0	.00	40800	30	3300	11200	10	302
23	972	0	.00	38900	20	2100	14400	10	389
24	10300	10	278	40700	30	3300	1020	0	.00
25	13500	10	364	38300	20	2070	3260	0	.00
26	13300	10	359	30500	20	1650	120	0	.00
27	13600	10	367	11500	10	310	9020	10	244
28	12800	10	346	27900	20	1510	10300	10	278
29	1500	0	.00	22500	10	607	16900	10	456
30	211	0	.00	25600	20	1380	14400	10	389
31	9360	10	253	---	---	---	2660	0	.00
TOTAL	530974	---	21289.00	1087800	---	75837	364690	---	10089.00
		JANUARY			FEBRUARY			MARCH	
1	2700	0	.00	14600	10	394	35500	20	1920
2	1180	0	.00	8650	10	234	34000	20	1840
3	7640	0	.00	9980	10	269	41900	30	3390
4	9240	10	249	5850	0	.00	42200	30	3420
5	10000	10	270	1650	0	.00	46700	30	3780
6	8320	10	225	13600	10	367	45900	30	3720
7	7890	0	.00	17500	10	472	47100	30	3820
8	9550	10	258	16200	10	437	62200	40	6720
9	19800	10	535	17800	10	481	72300	40	7810
10	15800	10	427	14800	10	400	64700	40	6990
11	8980	10	242	5020	0	.00	55700	30	4510
12	8580	10	232	3170	0	.00	41800	30	3390
13	5630	0	.00	25500	20	1380	47100	30	3820
14	7810	10	211	30900	20	1670	52000	30	4210
15	5510	0	.00	31500	20	1700	44300	30	3590
16	11300	10	305	43100	30	3490	40200	30	3260
17	16400	10	443	40700	30	3300	40100	30	3250
18	17500	10	472	41000	30	3320	35500	20	1920
19	18400	10	497	41100	30	3330	18300	10	494
20	17500	10	472	38000	20	2050	24600	20	1330
21	13000	10	351	29000	20	1570	31000	20	1670
22	8430	10	228	27400	20	1480	40100	30	3250
23	15000	10	405	25600	20	1380	40400	30	3270
24	7310	0	.00	22600	10	610	74000	50	9990
25	12000	10	324	18200	10	491	132000	80	28500
26	18900	10	510	16300	10	440	109000	70	20600
27	20100	10	543	33700	20	1820	88400	50	11900
28	13400	10	362	38700	20	2090	63800	40	6890
29	6990	0	.00	---	---	---	66700	40	7200
30	11000	10	297	---	---	---	70500	40	7610
31	17800	10	481	---	---	---	71400	40	7710
TOTAL	353660	---	8339.00	632120	---	33175.00	1679400	---	181774

07258000 ARKANSAS RIVER AT DARDANELLE, AR--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	78100	50	10500	40600	30	3290	48200	30	3900
2	79700	50	10800	44100	30	3570	53000	30	4290
3	75900	50	10200	40900	30	3310	58400	40	6310
4	70300	40	7590	67800	40	7320	43300	30	3510
5	63000	40	6800	81000	50	10900	42500	30	3440
6	66400	40	7170	81800	50	11000	41600	30	3370
7	68700	40	7420	70600	40	7620	41100	30	3330
8	68500	40	7400	127000	80	27400	50200	30	4070
9	60300	40	6510	107000	70	20200	51600	30	4180
10	72000	40	7780	84700	50	11400	50400	30	4080
11	90800	60	14700	72800	50	9830	42200	30	3420
12	78300	50	10600	71300	40	7700	42300	30	3430
13	85100	50	11500	67200	40	7260	43000	30	3480
14	81800	50	11000	50500	30	4090	39200	20	2120
15	78400	50	10600	48000	30	3890	28900	20	1560
16	78300	50	10600	43400	30	3520	23500	20	1270
17	78800	50	10600	35700	20	1930	24000	20	1300
18	83700	50	11300	37500	20	2030	29700	20	1600
19	80500	50	10900	43000	30	3480	43400	30	3520
20	71100	40	7680	44100	30	3570	43100	30	3490
21	51900	30	4200	45700	30	3700	44300	30	3590
22	41500	30	3360	45200	30	3660	56100	40	6060
23	40100	30	3250	45100	30	3650	55500	40	5990
24	40900	30	3310	69600	40	7520	60600	40	6540
25	41100	30	3330	65700	40	7100	61800	40	6670
26	25800	20	1390	50600	30	4100	55100	30	4460
27	22800	10	616	49800	30	4030	43400	30	3520
28	22500	10	607	49900	30	4040	43300	30	3510
29	21900	10	591	53500	30	4330	40600	30	3290
30	22800	10	616	43200	30	3500	33800	20	1830
31	---	---	---	42300	30	3430	---	---	---
TOTAL	1841000	---	212920	1819600	---	202370	1334100	---	111130
		JULY			AUGUST			SEPTEMBER	
1	15300	10	413	9230	10	249	4940	0	.00
2	20900	10	564	9470	10	256	3390	0	.00
3	28600	20	1540	11400	10	308	2280	0	.00
4	24500	20	1320	4480	0	.00	2630	0	.00
5	27800	20	1500	1340	0	.00	11000	10	297
6	23100	10	624	334	0	.00	12200	10	329
7	21100	10	570	5470	0	.00	8920	10	241
8	20200	10	545	6860	0	.00	10100	10	273
9	21100	10	570	7800	10	211	2110	0	.00
10	20400	10	551	8980	10	242	1730	0	.00
11	19600	10	529	7250	0	.00	7790	0	.00
12	21800	10	589	2800	0	.00	7000	0	.00
13	22200	10	599	1840	0	.00	4420	0	.00
14	16200	10	437	11600	10	313	5240	0	.00
15	5280	0	.00	8400	10	227	6800	0	.00
16	4180	0	.00	6450	0	.00	3450	0	.00
17	14100	10	381	7620	0	.00	2830	0	.00
18	9530	10	257	8480	10	229	8280	10	224
19	10200	10	275	2460	0	.00	7240	0	.00
20	11600	10	313	937	0	.00	1680	0	.00
21	12300	10	332	5230	0	.00	5210	0	.00
22	4550	0	.00	9210	10	249	5050	0	.00
23	3400	0	.00	10100	10	273	1100	0	.00
24	13600	10	367	11400	10	308	2270	0	.00
25	13000	10	351	12200	10	329	7330	0	.00
26	15600	10	421	6850	0	.00	5940	0	.00
27	14800	10	400	132	0	.00	2520	0	.00
28	16600	10	448	9690	10	262	4540	0	.00
29	8550	10	231	1630	0	.00	4210	0	.00
30	256	0	.00	10100	10	273	1190	0	.00
31	7500	0	.00	10700	10	289	---	---	---
TOTAL	467846	---	14127.00	210443	---	4018.00	153390	---	1364.00

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR

LOCATION.--Lat 35°06'25", long 93°55'25", in NW¼NW¼ sec.18, T.5 N., R.27 W., Logan County, Hydrologic Unit 11110204, on right bank at downstream side of bridge on State Highway 23, 0.5 mi (0.8 km) downstream from Fletcher Creek, 2.3 mi (3.7 km) south of Booneville, and at mile 102.3 (164.6 km).

DRAINAGE AREA.--241 mi^2 (624 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1938 to current year. Prior to October 1965, published as Petit Jean Creek near Booneville.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 423.39 ft (129.049 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years (1939-78), 247 ft^3/s (7.00 m^3/s), 13.92 in/yr (354 mm/yr), 178,700 acre-ft/yr (220 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 43,200 ft^3/s (1,220 m^3/s) Apr. 16, 1939, gage height, 23.42 ft (7.138 m), from rating curve extended above 20,500 ft^3/s (581 m^3/s) on basis of slope-area and contracted-opening measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,340 ft^3/s (180 m^3/s) Mar. 24 at 1400 hours, gage height, 16.76 ft (5.108 m), no other peak above base of 4,000 ft^3/s (110 m^3/s); no flow Aug. 21-Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	1.5	11	8.7	81	600	141	41	69	.99	.17	.00
2	.56	9.3	25	7.6	76	638	121	55	70	.76	.14	.00
3	.49	28	15	6.8	69	623	104	342	42	.63	.12	.00
4	.48	19	31	6.0	65	362	97	1030	97	.58	.11	.00
5	.46	10	61	5.3	76	267	94	461	199	.48	.10	.00
6	.44	7.4	41	4.8	71	223	133	295	213	.40	.08	.00
7	.45	5.4	25	4.5	57	768	133	1100	160	.36	.08	.00
8	.52	4.3	19	4.3	50	1420	102	2460	196	.33	.07	.00
9	.53	4.0	16	3.7	49	812	82	946	141	.33	.06	.00
10	.54	2.9	14	3.4	50	546	311	640	77	.33	.06	.00
11	.48	3.3	12	3.5	57	353	696	319	48	.30	.05	.00
12	.47	5.0	11	4.0	111	248	335	193	33	.22	.03	.00
13	.44	4.4	11	4.6	864	227	212	173	25	.22	.03	.00
14	.40	3.8	13	4.1	513	231	151	117	19	.16	.04	.00
15	.39	3.5	11	3.9	272	179	118	89	15	1.9	.05	.00
16	.36	3.3	11	19	214	153	98	70	11	.99	.05	.00
17	.36	3.1	8.6	114	229	127	83	57	9.3	.53	.04	.00
18	.36	3.0	11	88	246	106	76	57	7.5	1.4	.03	.00
19	.35	3.3	9.1	65	201	93	66	56	6.6	1.5	.02	.00
20	.33	3.2	8.0	50	206	83	55	47	5.8	.92	.01	.00
21	.33	2.3	7.1	40	174	98	49	43	8.9	.75	.00	.00
22	.33	2.0	6.4	36	166	88	44	50	7.2	.60	.00	.00
23	.33	1.9	6.2	38	401	88	40	71	5.8	.52	.00	.00
24	.53	1.9	5.9	204	429	5120	36	53	4.5	.52	.00	.00
25	.68	1.8	5.1	443	325	1610	32	39	3.3	.42	.00	.00
26	.69	1.7	4.6	384	273	971	28	29	2.5	.37	.00	.00
27	.69	1.6	4.5	239	269	755	25	23	1.9	.45	.00	.00
28	.69	1.6	4.6	161	867	476	22	19	1.4	.40	.00	.00
29	.70	1.8	5.0	116	---	265	24	18	1.1	.32	.00	.00
30	.76	5.5	6.1	104	---	206	29	17	.99	.25	.00	.00
31	.93	---	6.3	89	---	168	---	14	---	.22	.00	---
TOTAL	15.83	149.8	425.5	2265.2	6466	17904	3537	8924	1481.79	18.15	1.34	.00
MEAN	.51	4.99	13.7	73.1	231	578	118	288	49.4	.59	.043	.000
MAX	.93	28	61	443	869	5120	696	2460	213	1.9	.17	.00
MIN	.33	1.5	4.5	3.4	49	83	22	14	.99	.16	.00	.00
CFSM	.002	.02	.06	.30	.96	2.40	.49	1.20	.21	.002	.000	.000
IN.	.00	.02	.07	.35	1.00	2.76	.55	1.38	.23	.00	.00	.00
AC-FT	31	297	844	4490	12830	35510	7020	17700	2940	36	2.7	.00

CAL YR 1977 TOTAL 54251.93 MEAN 149 MAX 13300 MIN .33 CFSM .62 IN 8.37 AC-FT 107600
WTR YR 1978 TOTAL 41188.61 MEAN 113 MAX 5120 MIN .00 CFSM .47 IN 6.36 AC-FT 81700

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT											
18...	9827	9827	--	120	7.4	16.0	20	6.8	68	2.3	40
NOV											
08...	1028	--	4.4	--	--	17.5	--	--	--	--	--
15...	9827	9827	--	119	7.4	16.0	30	5.7	57	1.1	140
DEC											
13...	9827	9827	--	131	--	14.0	130	10.6	102	6.2	180
21...	1028	--	7.0	--	--	3.5	--	--	--	--	--
FEB											
02...	1028	--	79	--	--	1.5	--	--	--	--	--
14...	9827	9827	--	89	7.2	2.0	--	12.4	90	2.9	--
20...	9827	9827	--	90	6.9	5.0	60	13.7	107	3.0	60
MAR											
10...	1028	--	505	--	--	8.0	--	--	--	--	--
14...	9827	9827	--	78	6.9	11.0	60	10.8	97	2.7	1100
APR											
11...	9827	9827	--	99	6.9	19.0	60	8.1	86	4.4	5000
20...	1028	--	59	--	--	15.5	--	--	--	--	--
MAY											
09...	9827	9827	--	52	6.9	20.0	120	8.4	91	3.6	2600
31...	1028	--	14	--	--	24.5	--	--	--	--	--
JUN											
06...	9827	9827	--	79	7.0	25.0	--	6.0	71	>6.0	--
JUL											
11...	9827	9827	--	110	7.1	30.0	50	8.3	109	7.2	<100
12...	1028	--	.27	--	--	31.5	--	--	--	--	--
AUG											
08...	9827	9827	--	124	7.1	26.0	10	3.5	43	>3.5	150
22...	1028	--	.00	--	--	32.0	--	--	--	--	--
SEP											
05...	9827	9827	--	175	7.2	27.0	20	3.2	40	>3.2	760

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT											
18...	17	35	5.0	4.9	8.3	2.9	42	7.0	7.0	77	9
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
15...	40	--	--	--	--	--	--	6.0	7.0	70	10
DEC											
13...	--	--	--	--	--	--	--	18	8.0	127	26
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	14	8.0	129	82
20...	42	14	1.0	2.0	7.4	1.7	17	18	--	97	7
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
14...	430	--	--	--	--	--	--	19	7.5	64	16
APR											
11...	3500	25	2.0	3.0	8.5	2.0	20	--	8.0	--	76
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	1200	--	--	--	--	--	--	--	5.0	82	80
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	440	--	--	--	--	--	--	5.0	6.0	67	43
JUL											
11...	47	32	4.0	4.0	8.2	2.5	42	6.0	--	73	41
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	90	--	--	--	--	--	--	1.0	7.0	82	11
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	240	--	--	--	--	--	--	--	8.0	102	4

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
18...	<.05	<.05	<.05	.09	.03	<5	<10	<5	60	990	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
15...	<.05	<.05	<.05	.07	.03	--	<10	--	80	1000	--
DEC											
13...	<.05	<.05	.07	.23	.13	<3	--	--	<20	3900	--
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
14...	.35	.03	.38	.16	.23	--	<10	--	320	220	--
20...	.32	.01	.33	.08	.05	<5	<10	<5	<20	2000	<10
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
14...	.16	.01	.17	.06	.03	--	<10	--	40	1500	--
APR											
11...	--	--	--	--	--	<5	<10	20	<20	4000	<10
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	.07	.02	.09	.17	.17	--	<10	--	<10	3800	<10
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	.11	.01	.12	.22	.06	--	<10	--	20	2100	--
JUL											
11...	.01	.01	.02	.07	.04	<5	<10	<5	50	2200	20
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	.05	.01	.06	.09	.04	--	<10	--	<20	660	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	.02	.02	.04	.22	.08	--	<10	--	70	400	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
18...	270	--	50	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
15...	300	--	130	--	--	--	--	--	--	--	--
DEC											
13...	100	--	50	.00	.00	.00	.00	.00	.00	.00	0
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
14...	30	--	210	--	--	--	--	--	--	--	--
20...	26	--	30	--	--	--	--	--	--	--	--
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
14...	25	--	20	--	--	--	--	--	--	--	--
APR											
11...	210	--	80	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	130	--	40	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	140	--	80	--	--	--	--	--	--	--	--
JUL											
11...	970	<1.0	150	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	810	--	50	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	1400	--	150	--	--	--	--	--	--	--	--

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR

LOCATION.--Lat 35°06'17", long 93°37'53", in SE¼SW¼ sec.11, T.5 N., R.25 W., Yell County, Hydrologic Unit 11110204, on left bank 0.8 mi (1.3 km) downstream from Rock Creek, 1.2 mi (1.9 km) downstream from Cedar Creek, 1.3 mi (2.1 km) south of Waveland, 1.4 mi (2.3 km) downstream from Blue Mountain Dam, and at mile 73.0 (117.5 km).

DRAINAGE AREA.--516 mi^2 (1,336 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1939 to current year. Published as Petit Jean Creek near Blue Mountain prior to October 1943, and as Petit Jean Creek near Waveland October 1943 to September 1965.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 339.70 ft (103.541 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1943, at site 1.8 mi (2.9 km) upstream at datum 9.54 ft (2.907 m) higher.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 1.4 mi (2.3 km) upstream, since March 1947 (see station 07259000).

AVERAGE DISCHARGE.--39 years, 522 ft^3/s (14.8 m^3/s), 378,200 acre-ft/yr (466 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,600 ft^3/s (1,770 m^3/s) Apr. 16, 1939, gage height, 29.95 ft (9.129 m), site and datum then in use, or 34.0 ft (10.36 m) from floodmarks, present site; no flow at times in 1943, 1946, 1978. Maximum discharge since construction of Blue Mountain Dam in 1947, 8,580 ft^3/s (243 m^3/s) Jan. 2, 1947, gage height, 27.25 ft (8.306 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1916, that of Apr. 16, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft^3/s (61.5 m^3/s) May 8, gage height, 13.84 ft (4.218 m); no flow Nov. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	15	10	14	18	712	1760	60	53	43	31	25
2	2.5	14	9.8	13	17	740	1700	52	53	42	31	23
3	2.2	15	9.5	13	16	595	1650	121	52	42	30	23
4	2.4	19	10	13	16	457	1600	191	53	42	30	23
5	2.9	18	15	13	9.0	442	1050	335	213	42	30	23
6	2.7	16	14	15	5.7	744	374	492	342	42	29	23
7	2.7	13	12	14	12	316	367	678	342	41	29	22
8	2.9	15	6.9	16	14	178	365	954	341	41	30	21
9	2.7	4.5	3.2	11	16	448	362	176	339	41	31	21
10	2.7	6.0	3.0	6.6	17	1070	296	114	336	41	31	20
11	2.8	6.0	2.8	7.2	17	1040	133	90	224	41	31	20
12	6.0	5.8	2.4	7.2	20	1020	458	744	129	41	31	18
13	7.6	5.6	2.8	6.3	27	712	789	1350	99	46	31	18
14	7.0	5.4	3.0	6.1	25	718	669	1310	58	79	29	18
15	7.0	5.2	2.8	6.1	26	1130	409	1280	43	49	30	18
16	7.5	16	4.8	11	30	1140	403	1510	34	40	31	17
17	6.9	14	11	13	31	1100	399	1780	34	40	31	16
18	7.8	12	13	14	31	1080	401	1730	33	40	31	16
19	8.6	9.0	9.2	15	30	1060	398	1670	32	40	33	16
20	10	8.7	3.8	20	50	1030	336	1620	32	39	30	15
21	10	9.7	3.0	23	129	1020	191	1490	35	39	29	14
22	11	6.5	4.5	19	242	643	103	1020	32	39	28	12
23	12	5.5	4.4	21	250	421	102	727	34	38	29	12
24	15	4.2	2.9	30	328	366	63	446	38	34	28	12
25	17	3.0	3.6	33	395	136	32	157	37	30	28	12
26	18	1.8	4.2	23	395	94	31	82	39	31	28	12
27	15	1.0	9.4	23	412	885	32	80	41	32	28	12
28	17	.50	15	22	458	2000	36	78	41	32	28	11
29	15	.00	15	21	---	1930	36	76	41	30	28	9.8
30	13	2.5	14	19	---	1870	35	69	42	31	28	9.2
31	12	---	14	19	---	1810	---	57	---	32	24	---
TOTAL	255.0	257.90	239.0	491.5	3036.7	26907	14580	20539	3222	1240	916	512.0
MEAN	8.23	8.60	7.71	15.9	104	868	486	663	107	40.0	29.5	17.1
MAX	18	19	15	33	458	2000	1760	1780	342	79	33	25
MIN	2.2	.00	2.4	6.1	5.7	94	31	52	32	30	24	9.2
AC-FT	506	512	474	975	6020	53370	28920	40740	6390	2460	1820	1020

CAL YR 1977 TOTAL 112443.90 MEAN 308 MAX 2470 MIN .00 AC-FT 223000
WTR YR 1978 TOTAL 72196.10 MEAN 198 MAX 2000 MIN .00 AC-FT 143200

07260500 PETIT JEAN RIVER AT DANVILLE, AR

LOCATION.--Lat 35°03'33", long 93°23'44", in NW¼SE¼ sec.25, T.5 N., R.23 W., Yell County, Hydrologic Unit 11110204, on left bank at downstream side of bridge on State Highway 10 at Danville, 0.3 mi (0.5 km) upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 0.5 mi (0.8 km) upstream from Spring Creek, 0.6 mi (1.0 km) downstream from Dutch Creek, and at mile 48.8 (78.5 km).

DRAINAGE AREA.--764 mi^2 (1,979 km^2).

PERIOD OF RECORD.--June 1916 to current year. Prior to October 1965, published as Petit Jean Creek at Danville.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 303.33 ft (92.455 m) National Geodetic Vertical Datum of 1929. June 1, 1916, to Aug. 24, 1934, nonrecording gage on railroad bridge 0.3 mi (0.5 km) downstream at datum 0.25 ft (0.076 m) higher. Aug. 25, 1934, to July 12, 1939, nonrecording gage at present site and datum. Since June 18, 1954, auxiliary water-stage recorder 2.2 mi (3.5 km) downstream.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 25.6 mi (41.2 km) upstream, since March 1947. (See station 07259000).

AVERAGE DISCHARGE.--62 years, 806 ft^3/s (22.8 m^3/s), 583,900 acre-ft/yr (720 hm^2/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,800 ft^3/s (2,010 m^3/s) Apr. 17, 1939, gage height, 31.82 ft (9.699 m); no flow at times in 1924, 1934-36, 1943, 1956, 1963, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,250 ft^3/s (205 m^3/s) May 9, gage height, 22.15 ft (6.751 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 13, 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	6.4	130	25	135	1210	2120	335	53	19	22	24
2	26	26	94	12	129	1570	2040	259	47	19	24	22
3	9.1	40	80	16	112	1820	1980	572	53	19	24	17
4	6.1	28	63	15	100	1260	1810	1430	49	19	24	15
5	5.6	18	89	15	97	972	1720	1100	53	19	24	13
6	4.6	13	98	14	89	862	886	1020	378	19	24	13
7	4.2	11	60	14	81	1600	611	1750	517	19	19	13
8	4.8	10	45	14	76	1980	575	5490	437	19	19	13
9	5.7	28	40	14	72	1420	562	5520	435	19	19	13
10	6.2	22	37	13	72	1500	748	2050	409	19	19	13
11	5.9	11	31	13	72	1530	1540	971	379	18	19	13
12	4.2	8.1	25	13	74	1450	980	538	196	17	19	15
13	3.2	6.6	22	13	221	1440	1320	1570	152	21	19	16
14	2.5	6.5	22	13	341	1460	1310	1600	106	113	20	17
15	2.7	5.9	22	12	253	1590	951	1550	65	141	19	17
16	2.7	184	24	33	216	1620	740	1520	48	93	16	17
17	3.1	203	26	244	202	1510	680	1760	30	48	20	17
18	3.6	32	35	164	200	1450	658	2010	27	36	22	17
19	4.5	12	37	109	194	1410	614	1860	27	33	23	17
20	4.5	9.2	31	89	186	1370	572	1760	22	29	31	17
21	4.5	8.7	23	79	186	1340	425	1710	22	29	33	17
22	4.9	8.7	18	77	379	1240	262	1570	25	27	26	17
23	5.4	8.7	16	73	467	675	255	1180	22	27	20	17
24	5.5	8.7	16	200	483	1790	217	951	19	32	15	17
25	5.5	8.3	14	566	566	2110	136	388	19	34	16	17
26	4.8	8.3	15	691	600	964	97	166	19	26	18	17
27	3.0	9.7	14	310	612	645	81	117	15	17	19	17
28	3.7	10	14	217	1040	1890	75	104	17	17	18	17
29	3.8	12	14	181	---	2280	75	99	18	17	28	17
30	3.9	20	23	160	---	2260	84	90	19	16	34	17
31	4.2	---	29	147	---	2190	---	71	---	15	29	---
TOTAL	262.4	783.8	1207	3556	7255	46408	24124	41111	3678	996	682	489
MEAN	8.46	26.1	38.9	115	259	1497	804	1326	123	32.1	22.0	16.3
MAX	104	203	130	691	1040	2280	2120	5520	517	141	34	24
MIN	2.5	5.9	14	12	72	645	75	71	15	15	15	13
CFSM	.01	.03	.05	.15	.34	1.96	1.05	1.74	.16	.04	.03	.02
IN.	.01	.04	.06	.17	.35	2.26	1.17	2.00	.18	.05	.03	.02
AC-FT	520	1550	2390	7050	14390	92050	47850	81540	7300	1980	1350	970

CAL YR 1977 TOTAL 173101.3 MEAN 474 MAX 13400 MIN 2.5 CFSM .62 IN 8.43 AC-FT 343300
WTR YR 1978 TOTAL 130552.2 MEAN 358 MAX 5520 MIN 2.5 CFSM .47 IN 6.36 AC-FT 259000

07260640 PETIT JEAN RIVER NEAR CENTERVILLE, AR

LOCATION.--Lat 35°04'35", long 93°12'10" (revised), in NE¼ sec.23, T.5 N., R.21 W., Yell County, Hydrologic Unit 11110204, at bridge on State Highway 7, 3.8 mi (6.1 km) southwest of Centerville.

DRAINAGE AREA.--927 mi² (2,401 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	82	7.1	20.0	500	6.3	68	1.4	100	--
NOV											
01...	9827	9827	111	7.2	19.0	--	4.8	51	.8	75	--
29...	9827	9827	82	7.1	8.0	150	5.9	50	2.2	60	--
JAN											
04...	9827	9827	88	7.0	3.0	80	11.6	86	2.4	25	22
31...	9827	9827	68	7.4	2.0	90	13.0	94	3.5	47	--
FEB											
28...	9827	9827	79	7.1	5.0	120	--	91	2.6	1700	--
MAR											
28...	9827	9827	50	6.6	16.0	70	10.2	102	1.3	250	--
APR											
25...	9827	9827	75	6.8	19.0	120	7.5	80	2.1	55	19
MAY											
23...	9827	9827	65	--	21.0	100	7.4	82	2.6	440	--
JUN											
20...	9827	9827	74	7.1	25.0	150	5.2	62	3.8	--	--
JUL											
25...	9827	9827	92	7.1	30.0	100	5.4	71	4.2	65	39
AUG											
22...	9827	9827	92	7.1	29.0	60	6.6	85	4.7	130	--
SEP											
18...	9827	9827	93	7.6	29.0	60	6.8	87	3.2	180	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	<1.0	2.0	8.4	7.1	79	12	7.5	282	111	.42
NOV										
01...	--	--	--	--	--	10	11	174	62	--
29...	--	--	--	--	--	6.0	8.5	--	33	.28
JAN										
04...	2.0	3.0	6.8	2.9	21	8.0	9.5	67	13	.42
31...	--	--	--	--	--	9.0	9.5	63	15	.79
FEB										
28...	--	--	--	--	--	12	9.0	--	51	.41
MAR										
28...	--	--	--	--	--	3.0	6.0	50	47	.38
APR										
25...	.8	2.1	5.3	1.8	14	8.0	6.5	--	49	.25
MAY										
23...	--	--	--	--	--	8.0	6.0	78	75	.21
JUN										
20...	--	--	--	--	--	46	7.5	102	243	.30
JUL										
25...	5.0	4.0	6.8	3.9	26	43	10	99	--	--
AUG										
22...	--	--	--	--	--	6.0	7.5	90	45	.13
SEP										
18...	--	--	--	--	--	10	7.5	56	38	.17

ARKANSAS RIVER BASIN

07260640 PETIT JEAN RIVER NEAR CENTERVILLE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
04...	.09	.51	.53	.39	<10	50	--	19400	20	--
NOV										
01...	<.05	.49	--	--	<10	--	<10	7100	--	350
29...	<.05	.30	.14	.19	<10	--	<20	2200	--	600
JAN										
04...	<.05	.44	.07	.14	<10	<5	<20	2300	<10	120
31...	.01	.80	.15	.12	<10	--	<20	2000	--	73
FEB										
28...	.01	.42	.12	.16	<10	--	<20	3800	--	150
MAR										
28...	.01	.39	.11	.12	<10	--	<20	2500	--	170
APR										
25...	.01	.26	.10	.18	<10	30	<20	4200	<10	340
MAY										
23...	.01	.22	.16	.08	<10	--	<20	3800	--	330
JUN										
20...	.06	.36	.12	.27	<10	--	<20	7300	--	610
JUL										
25...	--	--	--	.06	<10	20	<20	3300	<10	2400
AUG										
22...	.01	.14	.09	.12	<10	--	<20	3200	--	710
SEP										
18...	.01	.18	.06	.09	<10	--	<20	2700	--	520

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	40	--	--	--	--	--	--	--	--
NOV										
01...	--	40	--	--	--	--	--	--	--	--
29...	--	10	.00	.00	.00	.00	.00	.00	.00	0
JAN										
04...	--	<10	--	--	--	--	--	--	--	--
31...	--	<10	--	--	--	--	--	--	--	--
FEB										
28...	--	<10	--	--	--	--	--	--	--	--
MAR										
28...	--	10	--	--	--	--	--	--	--	--
APR										
25...	--	<10	--	--	--	--	--	--	--	--
MAY										
23...	--	<10	--	--	--	--	--	--	--	--
JUN										
20...	--	<10	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
22...	--	<10	--	--	--	--	--	--	--	--
SEP										
18...	--	20	--	--	--	--	--	--	--	--

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, AR

LOCATION.--Lat 35°07'26", long 92°47'11" (revised), in sec.35, T.6 N., R.17 W., Conway County, Hydrologic Unit 11110203, at Lock and Dam No. 9, 2.0 mi (3.2 km) northwest of Oppelo, and at mile 193.0 (310.5 km).

DRAINAGE AREA.--154,949 mi² (401,318 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	531	8.0	24.0	60	7.2	85	4.4	130	110
NOV											
01...	9827	9827	515	7.6	19.0	--	7.9	84	.9	180	--
29...	9827	9827	397	8.1	10.0	50	10.1	89	.9	260	--
JAN											
04...	9827	9827	356	8.0	6.0	20	12.5	100	1.6	33	99
31...	9827	9827	380	8.0	2.0	25	14.0	101	3.0	20	--
FEB											
28...	9827	9827	579	8.1	4.0	20	--	108	3.7	120	--
MAR											
28...	9827	9827	351	7.6	13.0	80	10.5	99	2.6	240	--
APR											
25...	9827	9827	429	7.9	14.0	40	9.6	101	1.9	140	100
MAY											
23...	9827	9827	355	--	24.0	55	7.9	93	1.9	170	--
JUN											
20...	9827	9827	908	8.1	26.0	30	7.4	90	1.7	33	--
JUL											
25...	9827	9827	659	8.3	31.0	20	9.4	125	3.5	<4	140
AUG											
22...	9827	9827	767	8.4	30.0	15	8.8	116	3.0	--	--
SEP											
18...	9827	9827	780	8.3	27.0	5	9.4	116	2.5	400	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	30	7.0	59	5.0	72	34	87	328	24	.57
NOV										
01...	--	--	--	--	--	29	85	304	23	--
29...	--	--	--	--	--	25	48	--	29	.58
JAN										
04...	29	6.0	28	3.4	80	20	43	198	14	.48
31...	--	--	--	--	--	36	46	213	15	.55
FEB										
28...	--	--	--	--	--	36	100	338	14	.36
MAR										
28...	--	--	--	--	--	25	52	220	71	.36
APR										
25...	28	7.4	34	3.5	93	34	50	--	35	.67
MAY										
23...	--	--	--	--	--	26	49	243	53	.07
JUN										
20...	--	--	--	--	--	46	180	518	33	.38
JUL										
25...	40	9.0	79	4.8	98	34	150	396	--	--
AUG										
22...	--	--	--	--	--	51	150	457	17	.01
SEP										
18...	--	--	--	--	--	50	160	426	17	.06

ARKANSAS RIVER BASIN

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
04...	<.05	.58	.14	.17	<10	<5	--	2200	20	--
NOV										
01...	<.05	.55	--	--	<10	--	<10	1000	--	110
29...	<.05	.59	.08	.14	<10	--	20	1800	--	110
JAN										
04...	<.05	.49	<.05	.12	<10	<5	20	930	30	97
31...	.01	.56	.06	.08	<10	--	<20	820	--	80
FEB										
28...	.01	.37	.05	.11	<10	--	<20	1200	--	200
MAR										
28...	.01	.37	.13	.25	<10	--	<20	3600	--	140
APR										
25...	.01	.68	.05	.18	<10	<5	<20	1700	10	110
MAY										
23...	.01	.08	.11	.05	<10	--	20	2400	--	220
JUN										
20...	.03	.41	.07	.11	<10	--	20	1500	--	120
JUL										
25...	--	--	--	.06	<10	20	<20	900	20	110
AUG										
22...	.01	.02	.06	.08	<10	--	<20	440	--	110
SEP										
18...	<.01	.06	.04	.08	10	--	<20	570	--	82

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	110	--	--	--	--	--	--	--	--
NOV										
01...	--	50	.00	.00	.00	.00	.00	.00	.00	0
29...	--	40	--	--	--	--	--	--	--	--
JAN										
04...	--	30	--	--	--	--	--	--	--	--
31...	--	20	--	--	--	--	--	--	--	--
FEB										
28...	--	30	--	--	--	--	--	--	--	--
MAR										
28...	--	40	--	--	--	--	--	--	--	--
APR										
25...	--	20	--	--	--	--	--	--	--	--
MAY										
23...	--	40	--	--	--	--	--	--	--	--
JUN										
20...	--	20	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	10	--	--	--	--	--	--	--	--
AUG										
22...	--	<10	--	--	--	--	--	--	--	--
SEP										
18...	--	50	--	--	--	--	--	--	--	--

07261000 CADRON CREEK NEAR GUY, AR

LOCATION.--Lat 35°17'56", long 92°24'10", in NW¼SE¼ sec.29, T.8 N., R.13 W., Faulkner County, Hydrologic Unit 11110205, on left bank on downstream side of bridge on U.S. Highway 65, 4.3 mi (6.9 km) southwest of Guy, and 10.5 mi (16.9 km) upstream from Cove Creek, and at mile 48.3 (77.7 km).

DRAINAGE AREA.--169 mi^2 (438 km^2).

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as North Fork Cadron Creek near Guy.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 371.68 ft (113.288 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--24 years, 288 ft^3/s (8.16 m^3/s), 23.14 in/yr (588 mm/yr), 208,700 acre-ft/yr (257 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s (527 m^3/s) Aug. 14, 1957, gage height, 24.95 ft (7.605 m), from rating curve extended above 14,000 ft^3/s (396 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (110 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 3	0615	5,990	170	13.51	4.118	June 21	1330	4,620	131	11.76	3.584
May 8	1530	*8,180	232	16.05	4.892						

Minimum discharge, 0.11 ft^3/s (0.003 m^3/s) Aug. 11, 12, gage height, 1.47 ft (0.448 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	832	104	724	159	397	504	171	418	102	75	3.7	91
2	514	3160	731	150	355	620	158	531	143	65	3.7	59
3	359	3900	575	139	317	1280	143	404	115	58	3.2	49
4	282	1330	499	134	293	856	139	534	96	48	2.2	45
5	235	864	1320	132	275	644	137	433	108	42	1.9	52
6	199	657	1080	138	256	540	127	338	263	34	1.3	38
7	176	515	765	144	234	1250	127	1610	436	31	1.3	28
8	197	423	628	179	212	1430	127	6390	319	31	1.1	21
9	221	464	574	191	204	974	125	1810	238	30	.94	16
10	168	383	438	169	193	738	126	943	181	44	.63	13
11	150	308	387	159	185	596	218	640	150	30	.34	12
12	130	271	354	165	186	493	209	678	131	23	6.2	14
13	118	242	496	172	521	593	170	534	113	27	3.7	188
14	110	217	1080	161	589	1680	142	379	98	31	3.2	810
15	103	200	824	148	494	1010	124	296	84	38	3.2	378
16	94	565	651	289	444	756	118	238	74	29	2.6	257
17	86	747	635	1070	384	596	118	197	63	24	1.9	196
18	81	520	525	876	360	490	117	169	59	22	1.9	157
19	75	419	446	688	328	421	117	152	53	18	2.0	128
20	70	374	381	551	312	365	103	137	58	14	2.3	106
21	65	1040	329	445	323	335	88	460	2210	11	2.9	91
22	61	741	293	370	303	309	80	265	756	9.2	2.8	79
23	59	556	268	336	314	265	91	217	433	12	2.2	69
24	56	443	247	1130	316	365	113	169	288	8.6	2.0	62
25	54	363	224	2210	311	439	91	137	222	6.7	1.3	55
26	53	298	196	1470	284	359	75	117	179	5.1	.96	46
27	52	262	181	957	269	317	55	101	147	4.3	1.3	36
28	51	230	169	731	450	276	47	89	120	3.7	1.1	31
29	50	233	163	598	---	243	47	110	103	3.4	25	28
30	47	300	182	509	---	212	45	99	89	3.4	263	23
31	48	---	177	447	---	190	---	80	---	3.4	185	---
TOTAL	4796	20129	15541	15017	9113	19146	3548	18675	7431	784.8	534.87	3178
MEAN	155	671	501	484	325	618	118	602	248	25.3	17.3	106
MAX	832	3900	1320	2210	589	1680	218	6390	2210	75	263	810
MIN	47	104	163	132	185	190	45	80	53	3.4	.34	12
CFSM	.92	3.97	2.96	2.86	1.92	3.66	.70	3.56	1.47	.15	.10	.63
IN.	1.06	4.43	3.42	3.31	2.01	4.21	.78	4.11	1.64	.17	.12	.70
AC-FT	9510	39930	30830	29790	18080	37980	7040	37040	14740	1560	1060	6300

CAL YR 1977	TOTAL	114942.09	MEAN 315	MAX 11000	MIN .00	CFSM 1.86	IN 25.30	AC-FT 228000				
WTR YR 1978	TOTAL	117893.67	MEAN 323	MAX 6390	MIN .34	CFSM 1.91	IN 25.95	AC-FT 233800				

07261250 CADRON CREEK WEST OF CONWAY, AR

LOCATION.--Lat 35°06'51", long 92°31'30", in SW¼NW¼ sec.32, T.6 N., R.14 W., Faulkner County, Hydrologic Unit 11110205, 120 ft (37 m) upstream from bridge on U.S. Highway 64 at county line near Conway.

DRAINAGE AREA.--752 mi² (1,948 km²).

PERIOD OF RECORD.--October 1968 to September 1973, February 1974 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	49	6.6	20.0	50	3.9	42	--	180	11
NOV											
01...	9827	9827	55	6.3	18.0	--	5.8	61	1.0	55	--
29...	9827	9827	42	6.8	9.0	20	9.8	84	.9	80	--
JAN											
04...	9827	9827	45	6.9	4.0	15	11.8	90	1.7	5	13
31...	9827	9827	37	6.3	3.0	25	12.3	91	3.0	53	--
FEB											
28...	9827	9827	41	7.0	6.0	15	--	91	2.8	13	--
MAR											
28...	9827	9827	44	6.5	12.0	40	9.4	87	1.2	200	--
APR											
25...	9827	9827	50	6.8	18.0	50	7.2	76	5.8	56	10
MAY											
23...	9827	9827	41	--	22.0	30	7.0	80	1.7	70	--
JUN											
20...	9827	9827	48	6.7	--	50	6.8	--	4.0	150	--
JUL											
25...	9827	9827	70	7.0	29.0	10	3.8	49	3.0	35	33
AUG											
22...	9827	9827	106	7.4	29.0	15	6.1	78	4.5	30	--
SEP											
18...	9827	9827	50	7.0	25.0	50	5.7	68	2.0	170	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	<1.0	2.0	2.6	2.7	10	3.0	4.0	57	20	.29
NOV										
01...	--	--	--	--	--	2.0	6.5	41	20	--
29...	--	--	--	--	--	3.0	6.0	--	19	.29
JAN										
04...	1.0	1.0	3.2	1.0	12	5.0	6.0	28	14	.33
31...	--	--	--	--	--	4.0	5.0	33	6	.46
FEB										
28...	--	--	--	--	--	4.0	6.0	41	13	.41
MAR										
28...	--	--	--	--	--	.0	5.0	50	22	.35
APR										
25...	.7	1.5	3.7	1.6	15	5.0	6.0	--	30	.22
MAY										
23...	--	--	--	--	--	5.0	5.0	49	34	.30
JUN										
20...	--	--	--	--	--	5.0	5.0	58	49	.07
JUL										
25...	7.0	3.0	3.7	1.8	27	9.0	6.5	60	--	--
AUG										
22...	--	--	--	--	--	2.0	7.0	76	17	.01
SEP										
18...	--	--	--	--	--	7.0	5.0	39	36	.30

07261250 CADRON CREEK WEST OF CONWAY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
04...	<.05	.30	.34	.14	<10	<5	--	1600	<10	--
NOV										
01...	<.05	.29	--	--	--	--	--	--	--	--
29...	<.05	.30	.09	.07	--	--	--	--	--	--
JAN										
04...	<.05	.34	.23	.10	20	<5	170	3000	250	140
31...	.01	.47	.09	.05	--	--	--	--	--	--
FEB										
28...	.01	.42	.07	.08	--	--	--	--	--	--
MAR										
28...	.01	.36	.10	.14	--	--	--	--	--	--
APR										
25...	.01	.23	.12	.18	<10	8	<20	2300	<10	210
MAY										
23...	.01	.31	.17	.04	--	--	--	--	--	--
JUN										
20...	.03	.10	.08	.12	--	--	--	--	--	--
JUL										
25...	--	--	--	.05	<10	10	<20	980	10	810
AUG										
22...	.01	.02	.05	.07	--	--	--	--	--	--
SEP										
18...	.01	.31	.10	.09	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	<10	--	--	--	--	--	--	--	--
NOV										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
04...	--	300	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
28...	--	--	--	--	--	--	--	--	--	--
MAR										
28...	--	--	--	--	--	--	--	--	--	--
APR										
25...	--	10	--	--	--	--	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
22...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, AR

LOCATION.--Lat 35°04'30", long 92°32'06", in sec.18, T.5 N., R.14 W., Faulkner County, Hydrologic Unit 11110203, at Toad Suck Ferry Dam, 6.0 mi (9.7 km) west of Conway, and at mile 172.0 (276.7 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	450	7.7	24.0	50	7.7	91	3.6	110	94
NOV											
01...	9827	9827	515	7.8	19.0	--	8.2	87	1.1	180	--
29...	9827	9827	348	8.0	10.0	40	10.5	93	1.3	220	--
JAN											
04...	9827	9827	311	7.8	6.0	20	12.1	97	1.8	24	80
31...	9827	9827	252	7.1	2.0	25	9.1	66	--	33	--
FEB											
28...	9827	9827	509	8.0	5.0	15	--	109	4.1	120	--
MAR											
28...	9827	9827	316	7.5	12.0	70	11.0	102	2.8	240	--
APR											
25...	9827	9827	408	7.9	16.0	20	9.6	96	1.9	65	100
MAY											
23...	9827	9827	346	--	24.0	45	8.3	98	2.3	80	--
JUN											
20...	9827	9827	860	8.0	27.0	20	7.8	96	1.8	320	--
JUL											
25...	9827	9827	648	8.2	31.0	30	8.9	119	2.5	--	140
AUG											
22...	9827	9827	761	8.4	30.0	10	8.7	114	2.3	300	--
SEP											
18...	9827	9827	696	8.2	27.0	10	8.9	110	2.4	4000	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	26	6.0	50	4.5	54	26	74	273	30	.49
NOV										
01...	--	--	--	--	--	30	81	306	34	--
29...	--	--	--	--	--	21	43	--	29	.52
JAN										
04...	23	5.0	24	3.1	71	18	36	170	12	.44
31...	--	--	--	--	--	20	31	144	13	.49
FEB										
28...	--	--	--	--	--	31	88	294	27	.36
MAR										
28...	--	--	--	--	--	22	47	201	74	.35
APR										
25...	26	7.3	32	3.4	85	33	47	--	40	.65
MAY										
23...	--	--	--	--	--	24	45	224	71	.65
JUN										
20...	--	--	--	--	--	44	160	490	36	.36
JUL										
25...	39	9.0	76	4.1	95	2.0	150	381	--	--
AUG										
22...	--	--	--	--	--	50	150	441	19	.01
SEP										
18...	--	--	--	--	--	47	150	375	22	.07

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
04...	<.05	.50	.16	.16	<10	<5	--	2000	10	--
NOV										
01...	<.05	.54	--	--	<10	--	20	1400	--	150
29...	<.05	.53	.08	.13	<10	--	<20	1900	--	110
JAN										
04...	<.05	.45	.09	.11	<10	<5	<20	890	20	110
31...	.01	.50	.07	.07	<10	--	<20	790	--	67
FEB										
28...	.01	.37	.04	.14	<10	--	<20	990	--	100
MAR										
28...	.01	.36	.13	.20	<10	--	<20	3300	--	170
APR										
25...	.01	.66	.06	.16	<10	<5	<20	1900	10	150
MAY										
23...	.01	.66	.10	.06	<10	--	20	3300	--	260
JUN										
20...	.03	.39	.07	.11	<10	--	<20	1400	--	160
JUL										
25...	--	--	--	.06	<10	20	<20	880	<10	92
AUG										
22...	.01	.02	.05	.07	<10	--	<20	610	--	140
SEP										
18...	<.01	.07	.09	.08	<10	--	<20	650	--	130

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	80	--	--	--	--	--	--	--	--
NOV										
01...	--	30	--	--	--	--	--	--	--	--
29...	--	30	.00	.00	.00	.00	.00	.00	.00	0
JAN										
04...	--	20	--	--	--	--	--	--	--	--
31...	--	20	--	--	--	--	--	--	--	--
FEB										
28...	--	40	--	--	--	--	--	--	--	--
MAR										
28...	--	30	--	--	--	--	--	--	--	--
APR										
25...	--	50	--	--	--	--	--	--	--	--
MAY										
23...	--	40	--	--	--	--	--	--	--	--
JUN										
20...	--	20	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	10	--	--	--	--	--	--	--	--
AUG										
22...	--	<10	--	--	--	--	--	--	--	--
SEP										
18...	--	40	--	--	--	--	--	--	--	--

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR

LOCATION.--Lat 34°52'21", long 93°39'24", in NW¼NW¼ sec.34, T.3 N., R.25 W., Yell County, Hydrologic Unit 11110206, near left bank on downstream side of bridge on State Highway 28, 1.2 mi (1.9 km) downstream from Garner Creek, 1.9 mi (3.1 km) east of Gravelly, 6.4 mi (10.3 km) upstream from Gaffords Creek, and at mile 103.7 (166.9 km).

DRAINAGE AREA.--410 mi^2 (1,062 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1007: 1939. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 410.50 ft (125.120 m) National Geodetic Vertical Datum of 1929. (levels by Corps of Engineers). Prior to May 11, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except for periods of no gage-height record, which are fair.

AVERAGE DISCHARGE.--39 years, 522 ft^3/s (14.8 m^3/s), 17.29 in/yr (439 mm/yr), 378,200 acre-ft/yr (466 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,400 ft^3/s (1,970 m^3/s) May 20, 1960, and July 26, 1969, gage height, 30.30 ft (9.235 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,490 ft^3/s (240 m^3/s) Mar. 24, gage height, 13.42 ft (4.090 m), no peak above base of 10,000 ft^3/s (283 m^3/s); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	2.9	91	52	260	590	372	128	73	10	5.4	.16
2	13	3.6	207	51	235	600	322	128	68	30	5.2	.09
3	12	3.3	195	49	215	810	284	193	62	26	4.8	.11
4	11	4.2	166	47	200	720	260	834	57	17	4.2	.07
5	11	6.9	149	46	185	600	239	962	74	21	3.6	.05
6	12	9.0	181	44	190	470	243	747	316	16	3.1	.04
7	12	11	187	43	200	900	345	3190	221	10	2.8	.00
8	18	15	147	42	190	2150	298	5240	339	9.0	2.4	.00
9	21	15	127	41	180	1550	253	2020	289	8.5	2.1	.00
10	25	14	110	40	170	1260	247	1110	188	7.8	1.7	.00
11	30	15	98	43	165	930	491	752	144	7.2	1.7	.00
12	33	21	91	49	400	720	727	558	120	7.8	1.9	.00
13	32	27	88	50	1200	633	530	457	101	8.3	1.5	.00
14	32	26	84	50	950	923	419	361	87	11	1.3	.00
15	31	26	81	52	740	814	345	294	75	15	1.1	.00
16	30	119	77	70	560	641	293	243	65	17	.92	.00
17	25	260	76	440	480	532	257	206	57	18	.80	.00
18	22	153	72	420	420	452	246	183	50	18	.63	.00
19	19	98	68	335	380	396	216	164	43	17	.47	.00
20	16	78	66	255	355	347	198	148	37	17	.35	.00
21	13	67	62	220	330	320	178	141	38	17	.21	.00
22	10	59	61	195	320	332	167	148	34	16	.11	.00
23	7.8	54	59	165	335	339	174	165	29	14	.02	.00
24	6.6	50	58	400	370	3870	160	175	26	13	.00	.00
25	5.2	46	56	910	395	3420	207	160	23	12	.00	.00
26	4.3	42	54	600	410	1740	177	134	20	11	.00	.00
27	3.6	40	51	475	390	1080	152	115	17	9.6	.00	.00
28	3.3	39	48	400	480	769	138	99	14	8.3	.00	.00
29	2.8	44	51	350	---	624	138	91	12	7.0	.13	.00
30	2.4	54	55	310	---	530	130	86	10	5.8	.24	.00
31	2.2	---	54	280	---	429	---	79	---	5.1	.18	---
TOTAL	478.2	1402.9	2970	6524	10705	29491	8206	19311	2689	410.4	46.86	.52
MEAN	15.4	46.8	95.8	210	382	951	274	623	89.6	13.2	1.51	.017
MAX	33	260	207	910	1200	3870	727	5240	339	30	5.4	.16
MIN	2.2	2.9	48	40	165	320	130	79	10	5.1	.00	.00
CFSM	.04	.11	.23	.51	.93	2.32	.67	1.52	.22	.03	.004	.000
IN.	.04	.13	.27	.59	.97	2.68	.74	1.75	.24	.04	.00	.00
AC-FT	949	2780	5890	12940	21230	58500	16280	38300	5330	814	93	1.0

CAL YR 1977 TOTAL 121795.90 MEAN 334 MAX 29700 MIN 2.2 CFSM .82 IN 11.05 AC-FT 241600
WTR YR 1978 TOTAL 82234.88 MEAN 225 MAX 5240 MIN .00 CFSM .55 IN 7.46 AC-FT 163100

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
11...	9827	9827	--	57	--	19.0	10	8.6	91	1.5	150	<5
NOV												
01...	9827	9827	--	66	--	22.0	--	5.1	58	.4	40	52
03...	1028	--	3.2	--	--	17.5	--	--	--	--	--	--
29...	9827	9827	--	59	--	13.0	30	10.7	101	1.9	300	40
DEC												
13...	1028	--	84	--	--	6.5	--	--	--	--	--	--
JAN												
04...	9827	9827	--	47	7.0	9.0	35	13.0	112	2.2	<20	7
26...	1028	--	534	--	--	1.5	--	--	--	--	--	--
31...	9827	9827	--	40	7.0	7.0	50	13.6	111	3.5	13	8
FEB												
28...	9827	9827	--	44	6.9	11.0	--	12.0	108	2.1	560	40
MAR												
09...	1028	--	1430	--	--	7.0	--	--	--	--	--	--
28...	9827	9827	--	37	6.7	16.0	50	10.6	106	1.3	230	<4
APR												
17...	9827	9827	--	40	6.6	22.0	35	8.8	100	1.5	--	<7
20...	1028	--	204	--	--	16.5	--	--	--	--	--	--
MAY												
23...	9827	9827	--	43	7.0	27.0	30	9.2	114	2.4	<5	<5
31...	1028	--	78	--	--	27.0	--	--	--	--	--	--
JUN												
08...	1028	--	341	--	--	29.0	--	--	--	--	--	--
20...	9827	9827	--	42	6.9	29.0	30	8.3	106	2.2	<5	<5
JUL												
11...	1028	--	7.5	--	--	31.0	--	--	--	--	--	--
25...	9827	9827	--	92	7.4	31.0	40	6.1	81	1.5	7	<4
AUG												
21...	1028	--	1.8	--	--	30.5	--	--	--	--	--	--
22...	9827	9827	--	58	7.3	31.0	10	8.5	113	3.1	10	<4
SEP												
18...	9827	9827	--	66	7.3	30.0	5	6.8	89	2.5	170	<4

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
11...	21	3.0	3.0	4.8	2.3	18	3.0	5.5	46	5	<.05	<.05
NOV												
01...	--	--	--	--	--	--	4.0	4.5	45	--	<.05	<.05
03...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	5.0	5.5	45	--	<.05	<.05
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	11	2.0	1.0	3.7	1.1	13	5.0	6.0	36	1	--	<.05
26...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	7.0	6.0	40	6	.13	.01
FEB												
28...	--	--	--	--	--	--	5.0	5.0	49	9	.12	.01
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	1.0	4.5	60	9	.15	.01
APR												
17...	8	.4	1.2	3.1	1.0	9	4.0	4.5	33	4	.01	.01
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	--	--	--	--	--	--	3.0	5.0	46	8	--	<.01
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	5.0	4.0	48	8	.03	.01
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	25	4.0	3.0	8.6	2.0	28	44	11	72	21	.03	.01
AUG												
21...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	2.0	4.5	52	11	.01	.01
SEP												
18...	--	--	--	--	--	--	4.0	6.5	26	10	.01	<.01

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
OCT												
11...	<.05	<.05	.02	<5	<10	<5	100	520	<10	61	--	20
NOV												
01...	<.05	.05	--	--	<10	--	170	480	--	93	--	70
03...	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.05	<.05	.03	--	<10	--	150	770	--	46	--	70
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
04...	<.05	<.05	.06	<5	<10	<5	150	920	30	37	--	140
26...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.14	.06	.03	--	<10	--	160	1200	--	44	--	90
FEB												
28...	.13	.03	.05	--	<10	--	120	840	--	28	--	100
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
28...	.16	.08	.09	--	<10	--	130	1500	--	78	--	80
APR												
17...	.02	.05	--	<5	<10	<5	70	950	100	50	--	60
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	.08	.05	.08	--	<10	--	130	600	--	54	--	60
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.04	.05	.06	--	<10	--	130	1000	--	44	--	80
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	.04	.31	.11	<5	<10	10	420	1200	80	240	1.6	130
AUG												
21...	--	--	--	--	--	--	--	--	--	--	--	--
22...	.02	--	.05	--	<10	--	50	620	--	150	--	<10
SEP												
18...	.01	.02	.04	--	<10	--	60	460	--	180	--	180

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, AR

LOCATION.--Lat 34°57'02", long 93°09'16", in NW¼SW¼ sec.32, T.4 N., R.20 W., Perry County, Hydrologic Unit 11110206, on left bank 2,000 ft (610 m) downstream from Nimrod Dam, 4.5 mi (7.2 km) southwest of Nimrod, and 9.8 mi (15.8 km) upstream from South Fourche LaFave River, and at mile 62.2 (100.1 km).

DRAINAGE AREA.--684 mi^2 (1,772 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 877: 1938. WSP 1311: 1937(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 305.25 ft (93.040 m) National Geodetic Vertical Datum of 1929. (levels by Corps of Engineers). Mar. 3, 1936, to Dec. 20, 1938, nonrecording gage at site 1.1 mi (1.8 km) downstream at datum 3.92 ft (1.195 m) lower. Dec. 21, 1938, to Aug. 20, 1946, water-stage recorder at site 2.0 mi (3.2 km) downstream at datum 9.72 ft (2.963 m) lower.

REMARKS.--Records good. Flow regulated by Nimrod Lake, 2,000 ft (610 m) upstream, since 1942. (See station 07262000).

AVERAGE DISCHARGE.--42 years, 847 ft^3/s (24.0 m^3/s), 613,700 acre-ft/yr (757 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,100 ft^3/s (1,020 m^3/s) Feb. 19, 1938, gage height, 29.7 ft (9.05 m), site and datum then in use, and 27.6 ft (8.41 m), present site and datum, from floodmark; no flow at times in 1936, 1939, 1952. Maximum discharge since construction of Nimrod Dam in 1942, 20,000 ft^3/s (566 m^3/s) Apr.1, 1945, gage height, 26.19 ft (7.983 m), site and datum then in use, and 16.47 ft (5.020 m), present site and datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1935 reached a stage of 28.8 ft (8.78 m), present site and datum, from information by Corps of Engineers, discharge, 39,000 ft^3/s (1,100 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,700 ft^3/s (133 m^3/s) Mar. 15, gage height, 8.70 ft (2.652 m); minimum daily, 1.6 ft^3/s (0.05 m^3/s) Nov. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	9.3	113	39	1210	739	1070	14	163	24	15	19
2	44	9.4	110	39	1190	748	469	14	119	24	15	19
3	44	6.3	111	38	1190	759	353	15	80	24	15	18
4	44	8.1	113	37	1170	769	353	15	81	24	15	18
5	33	13	114	36	1160	776	353	249	81	24	15	451
6	22	12	237	36	951	1030	353	391	81	24	15	662
7	21	10	455	36	714	921	353	398	81	24	15	655
8	22	9.8	453	36	417	801	353	422	155	24	15	649
9	21	9.6	450	36	193	1100	353	941	232	24	15	643
10	20	9.3	448	36	193	1290	354	2770	232	24	20	636
11	20	7.8	444	36	193	1290	356	3570	232	24	20	631
12	21	7.6	295	36	193	1290	357	3540	230	24	20	623
13	21	7.6	206	36	193	1290	360	3510	230	25	20	643
14	20	7.6	206	34	195	2120	408	3460	230	25	20	680
15	20	7.1	206	34	527	4040	440	3840	230	25	20	632
16	20	6.7	207	36	891	4560	440	4020	182	25	20	464
17	15	5.5	206	36	1180	3970	440	2980	77	24	20	459
18	7.8	3.8	206	140	1170	2790	440	1370	73	25	19	454
19	7.0	2.9	206	195	1130	2550	439	854	52	25	20	447
20	6.6	2.3	143	195	1030	1880	269	502	52	25	20	366
21	6.7	2.0	66	193	1150	1460	72	127	52	25	20	341
22	7.1	1.6	41	193	1150	1070	37	126	52	25	20	363
23	7.6	49	41	193	1140	782	36	357	52	23	20	358
24	8.5	112	40	194	946	430	34	552	52	23	20	354
25	8.8	112	40	197	426	450	32	499	52	23	19	271
26	8.5	112	40	197	271	465	23	327	39	23	19	291
27	8.2	110	40	198	273	1680	15	219	27	23	19	281
28	8.0	110	40	199	555	3610	14	163	26	23	19	441
29	7.6	111	40	199	---	3870	14	163	24	22	20	253
30	7.1	112	40	811	---	3240	14	163	23	22	20	33
31	7.5	---	39	1210	---	1690	---	163	---	22	19	---
TOTAL	558.0	987.3	5396	4931	21001	53460	8604	35734	3292	741	569	12155
MEAN	18.0	32.9	174	159	750	1725	287	1153	110	23.9	18.4	405
MAX	44	112	455	1210	1210	4560	1070	4020	232	25	20	680
MIN	6.6	1.6	39	34	193	430	14	14	23	22	15	18
AC-FT	1110	1960	10700	9780	41660	106000	17070	70880	6530	1470	1130	24110

CAL YR 1977	TOTAL	184765.0	MEAN 506	MAX 5380	MIN 1.6	AC-FT	366500	
WTR YR 1978	TOTAL	147428.3	MEAN 404	MAX 4560	MIN 1.6	AC-FT	292400	

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1957 to September 1960, October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
NOV											
08...	1028	--	9.3	--	--	19.0	--	--	--	--	--
DEC											
22...	1028	--	40	--	--	7.5	--	--	--	--	--
FEB											
03...	1028	--	1170	--	--	15.0	--	--	--	--	--
27...	1028	1028	--	32	7.5	4.0	60	20	14.0	1.9	<2
MAR											
16...	1028	--	4560	--	--	7.5	--	--	--	--	--
APR											
26...	1028	--	17	--	--	21.0	--	--	--	--	--
JUN											
09...	1028	--	240	--	--	21.0	--	--	--	--	--
12...	1028	1028	--	48	6.4	21.5	80	32	7.6	1.9	4
JUL											
17...	1028	--	25	--	--	27.0	--	--	--	--	--
AUG											
31...	1028	--	19	--	--	26.5	--	--	--	--	--
SEP											
25...	1028	1028	--	42	6.7	24.0	10	5.7	9.6	2.4	K33

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
27...	13	5	2.7	7	1.4	1.1	9	0	7	.5
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
12...	30	17	8.9	22	2.0	1.4	16	0	13	10
JUL										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
25...	12	0	2.0	5	1.7	1.2	15	0	12	4.8

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
27...	12	21	.10	.07	.11	.18	.28	1.2	.05	.00
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
12...	3.8	3.0	.01	.17	.78	.95	.96	4.3	.03	.03
JUL										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
25...	3.6	3.1	.02	.09	.60	.69	.71	3.1	.06	.00

DATE	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)
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
27...	420	1	10	4	1100	6	90	.0	21	10
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
09...	--	--	--	--	--	--	--	--	--	--
12...	60	3	0	4	2800	4	1900	.1	4	5
JUL										
17...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	--	--	--	--	--	--	--	--	--	--
SEP										
25...	170	1	0	1	560	6	290	.0	7	10

07263000 SOUTH FOURCHE LAFAVE RIVER NEAR HOLLIS, AR

LOCATION.--Lat 34°54'41", long 93°03'21", in SE¼NE¼ sec.18, T.3 N., R.19 W., Perry County, Hydrologic Unit 11110206, on left bank 0.8 mi (1.3 km) upstream from Big Cove Creek, 2.1 mi (3.4 km) downstream from Cedar Creek, 4.0 mi (6.4 km) northeast of Hollis, and at mile 5.6 (9.0 km).

DRAINAGE AREA.--210 mi^2 (544 km^2).

PERIOD OF RECORD.--May 1941 to current year.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 366.10 ft (111.587 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Records good.

COOPERATION.--Gage-height record for Oct. 1 to Feb. 28, and five discharge measurements, were furnished by Corps of Engineers.

AVERAGE DISCHARGE.--37 years, 287 ft^3/s (8.13 m^3/s), 18.56 in/yr (471 mm/yr), 207,900 acre-ft/yr (256 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft^3/s (1,540 m^3/s) Mar. 30, 1945, gage height, 19.47 ft (5.934 m), from rating curve extended above 31,000 ft^3/s (878 m^3/s) on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,070 ft^3/s (115 m^3/s) Nov. 1, gage height, 7.49 ft (2.283 m), no peak above base of 9,000 ft^3/s (260 m^3/s); minimum daily, 0.10 ft^3/s (0.003 m^3/s) Aug. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	246	974	56	248	588	148	504	28	3.8	1.0	20
2	16	2420	609	50	218	682	132	653	26	3.5	1.5	17
3	12	825	373	46	196	1300	116	1220	27	6.1	2.5	13
4	10	348	274	42	176	786	104	1610	24	5.5	2.5	10
5	8.9	199	1670	41	171	562	94	866	39	4.3	2.0	9.2
6	7.9	142	812	40	176	464	88	614	92	4.1	1.5	8.9
7	7.4	98	468	39	193	2080	83	838	332	3.7	1.5	8.7
8	10	78	332	38	178	2110	80	2150	377	3.3	1.5	8.7
9	28	70	252	35	168	1190	71	1040	212	3.4	1.5	8.7
10	25	64	191	33	159	825	72	533	123	3.2	1.0	8.7
11	17	53	162	32	150	557	254	344	76	2.4	.70	8.9
12	12	48	140	40	195	436	258	255	56	2.0	1.0	8.9
13	10	44	422	38	1490	472	176	239	45	1.7	1.0	9.2
14	8.9	39	687	38	908	1060	144	173	35	2.5	.50	15
15	7.9	33	459	38	567	705	116	142	27	15	.30	15
16	7.2	155	332	321	436	504	96	116	21	8.9	.20	8.5
17	6.5	176	440	1160	348	399	296	94	18	5.9	.20	8.0
18	5.7	159	328	647	313	321	1350	84	17	4.5	.10	7.0
19	5.2	118	265	412	271	268	542	75	16	3.5	.80	6.0
20	4.7	92	204	299	299	227	324	67	21	3.0	1.5	5.5
21	4.2	504	162	236	271	210	227	65	24	2.0	.70	5.0
22	4.0	321	140	199	245	186	173	76	18	1.5	.40	4.5
23	3.5	233	120	176	265	168	278	66	17	1.5	.30	4.0
24	3.1	173	108	514	360	679	356	55	14	1.0	.60	3.5
25	3.1	136	92	2470	422	711	239	49	11	1.5	1.0	3.5
26	2.9	104	78	1550	394	468	176	42	8.4	.70	.70	3.0
27	2.5	86	69	773	288	352	140	38	6.5	.70	.40	3.0
28	2.8	74	61	523	542	281	113	44	5.5	.50	.30	2.5
29	3.1	77	58	403	---	227	100	56	4.7	.40	1.5	2.5
30	2.9	138	68	340	---	193	92	42	4.3	.40	45	2.0
31	3.8	---	62	295	---	168	---	33	---	1.0	35	---
TOTAL	268.2	7253	10412	10924	9647	19179	6438	12183	1725.4	101.50	108.70	238.4
MEAN	8.65	242	336	352	345	619	215	393	57.5	3.27	3.51	7.95
MAX	28	2420	1670	2470	1490	2110	1350	2150	377	15	45	20
MIN	2.5	33	58	32	150	168	71	33	4.3	.40	.10	2.0
CFSM	.04	1.15	1.60	1.68	1.64	2.95	1.02	1.87	.27	.02	.02	.04
IN.	.05	1.28	1.84	1.94	1.71	3.40	1.14	2.16	.31	.02	.02	.04
AC-FT	532	14390	20650	21670	19130	38040	12770	24160	3420	201	216	473

CAL YR 1977 TOTAL 70389.30 MEAN 193 MAX 10300 MIN .30 CFSM .92 IN 12.47 AC-FT 139600
WTR YR 1978 TOTAL 78478.20 MEAN 215 MAX 2470 MIN .10 CFSM 1.02 IN 13.90 AC-FT 155700

07263150 FOURCHE LAFAVE RIVER NEAR BIGELOW, AR

LOCATION.--Lat 34°58'42", long 92°38'54", in NE¼ sec.24, T.4 N., R.16 W., Perry County, Hydrologic Unit 11110206, at bridge on State Highway 113, 1.8 mi (2.8 km) southwest of Bigelow, and at mile 5.1 (8.2 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
04...	9827	9827	69	7.0	23.0	60	5.3	61	3.6	120	18
NOV											
01...	9827	9827	65	6.9	14.0	--	4.6	49	.9	36	--
29...	9827	9827	--	7.0	10.0	50	7.3	65	1.2	100	--
JAN											
04...	9827	9827	51	6.8	-.-	30	11.2	91	1.7	25	16
31...	9827	9827	34	6.9	3.0	45	13.0	96	2.2	15	--
FEB											
28...	9827	9827	47	6.9	6.0	50	--	95	2.4	28	--
MAR											
28...	9827	9827	44	6.5	12.0	50	9.1	84	1.0	55	--
APR											
25...	9827	9827	49	6.8	18.0	60	6.9	73	1.5	33	13
MAY											
23...	9827	9827	50	--	24.0	60	6.2	73	1.9	47	--
JUN											
20...	9827	9827	49	6.9	27.0	50	6.5	80	2.5	400	--
JUL											
25...	9827	9827	76	7.0	31.0	100	3.8	48	1.6	370	32
AUG											
22...	9827	9827	98	7.0	29.0	90	4.7	60	2.4	390	--
SEP											
18...	9827	9827	54	7.2	27.0	20	6.9	85	1.7	100	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
04...	1.0	2.0	3.5	3.4	20	3.0	7.0	85	32	.09
NOV										
01...	--	--	--	--	--	3.0	6.5	60	31	--
29...	--	--	--	--	--	3.0	7.0	--	41	.07
JAN										
04...	2.0	2.0	3.6	1.2	13	4.0	7.0	37	11	.11
31...	--	--	--	--	--	5.0	5.0	40	11	.17
FEB										
28...	--	--	--	--	--	5.0	7.5	50	28	.10
MAR										
28...	--	--	--	--	--	5.0	5.5	--	--	.07
APR										
25...	.7	1.4	3.6	1.4	21	5.0	6.0	--	46	.07
MAY										
23...	--	--	--	--	--	5.0	6.0	55	39	--
JUN										
20...	--	--	--	--	--	6.0	5.5	60	23	.02
JUL										
25...	5.0	3.0	4.6	2.4	28	9.0	6.5	94	--	--
AUG										
22...	--	--	--	--	--	3.0	7.5	87	28	.05
SEP										
18...	--	--	--	--	--	6.0	6.5	34	43	.15

ARKANSAS RIVER BASIN

07263150 FOURCHE LAFAVE RIVER NEAR BIGELOW, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
04...	<.05	.11	.19	.14	<10	10	--	3500	30	--
NOV										
01...	<.05	.15	--	--	<10	--	<10	1800	--	250
29...	<.05	.08	.09	.11	<10	--	<20	2400	--	320
JAN										
04...	<.05	.12	<.05	.11	<10	<5	20	1200	<10	160
31...	<.01	.17	.08	.04	<10	--	<20	940	--	100
FEB										
28...	.01	.11	.03	.08	<10	--	<20	1600	--	140
MAR										
28...	.01	.08	.09	.09	<10	--	<20	1700	--	150
APR										
25...	.01	.08	.07	.13	<10	10	20	2700	<10	370
MAY										
23...	<.01	.18	.12	.10	<10	--	20	2500	--	410
JUN										
20...	.03	.05	.06	.12	<10	--	<20	1500	--	110
JUL										
25...	--	--	--	.07	<10	10	<20	3400	<10	740
AUG										
22...	.01	.06	.12	.11	<10	--	<20	2500	--	540
SEP										
18...	.01	.16	.05	.09	<10	--	<20	2000	--	240

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	60	--	--	--	--	--	--	--	--
NOV										
01...	--	30	.00	.00	.00	.00	.00	.0	.00	0
29...	--	30	--	--	--	--	--	--	--	--
JAN										
04...	--	10	--	--	--	--	--	--	--	--
31...	--	20	--	--	--	--	--	--	--	--
FEB										
28...	--	20	--	--	--	--	--	--	--	--
MAR										
28...	--	40	--	--	--	--	--	--	--	--
APR										
25...	--	20	--	--	--	--	--	--	--	--
MAY										
23...	--	20	--	--	--	--	--	--	--	--
JUN										
20...	--	<10	--	--	--	--	--	--	--	--
JUL										
25...	<1.0	10	--	--	--	--	--	--	--	--
AUG										
22...	--	<10	--	--	--	--	--	--	--	--
SEP										
18...	--	50	--	--	--	--	--	--	--	--

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, AR

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, Hydrologic Unit 11110207, in Murray Dam control house on right bank and at mile 141.5 (227.7 km).

DRAINAGE AREA.--158,030 mi² (409,300 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1927 to current year. Prior to October 1969, published as 07263500 Arkansas River at Little Rock. Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected at or near former site since 1873 are contained in reports of National Weather Service. Gage-height records collected at site 5.5 mi (8.8 km) downstream since 1883, and intermittent records of discharge since 1885 are contained in reports of Mississippi River Commission.

GAGE.--Water-stage and gate position recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, Oct. 1, 1934, to May 9, 1970, recording gage at site 6.2 mi (10.0 km) downstream at datum 223.61 ft (68.156 m) higher. Sept. 20, 1968, to May 9, 1979, auxiliary water-stage recorder 5.5 mi (8.8 km) upstream from former gage.

REMARKS.--Records good. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream.

AVERAGE DISCHARGE.--51 years, 40,950 ft³/s (1,160 m³/s), 29,670,000 acre-ft/yr (36,600 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 536,000 ft³/s (15,200 m³/s) May 27, 1943, gage height 30.05 ft (9.159 m), site and datum then in use; minimum, 850 ft³/s (24.1 m³/s) Aug. 23, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1833 reached a stage of 34.6 ft (10.55 m) former site and datum. Flood of Apr. 20, 1927, reached a stage of 33.0 ft (10.06 m), former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 159,000 ft³/s (4,500 m³/s) May 9, tailwater elevation, 243.98 ft (74.365 m); minimum daily, 1,130 ft³/s (32.0 m³/s) Aug. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41200	16200	32000	6630	25100	47800	86000	29900	49800	22300	8430	5810
2	39700	33300	27000	4640	18000	46000	87700	47300	57800	24800	8810	3920
3	36900	40200	19500	5610	15400	54500	90800	46300	62500	25300	10300	3060
4	34200	55400	23500	6200	10900	59800	84300	60400	59800	28800	8850	2000
5	34000	55800	17100	14200	9470	61700	75500	86000	47400	29000	2090	9840
6	31900	37600	37300	11600	12300	60500	73600	94600	48300	23500	1690	11600
7	30800	39600	32600	4260	17400	59200	75400	96500	48500	22800	1130	11300
8	18500	32900	27700	11400	18500	71100	76800	112000	55200	19200	4300	8730
9	23700	47000	23200	17000	19600	90600	72200	149000	59200	20400	8610	3200
10	22200	46800	19600	20800	20000	90100	71300	134000	61500	21800	7130	1960
11	17700	47500	20400	8530	9580	79400	89900	114000	53700	18800	7340	9670
12	27800	47800	11800	12900	4640	66900	96100	104000	46700	20100	4530	7280
13	19900	45500	13300	7660	19900	58600	90000	99100	47300	23600	3390	19400
14	12800	48200	16400	6390	38800	68600	94600	82900	46300	17700	6470	9550
15	11900	45300	19500	5860	40300	69700	89600	69300	31700	9870	11800	7980
16	4330	48400	13900	14800	47500	60600	87100	63200	28800	3730	4960	5220
17	7800	55200	16400	24800	50400	56600	86900	55800	18000	9510	6730	7610
18	18800	58600	13700	28600	46700	53200	91500	44800	25900	15900	7140	8510
19	22600	57700	11100	26700	46800	41200	95000	53200	42100	8430	2250	10300
20	25700	53500	22100	24100	45000	26900	85300	51000	48600	7470	3630	8310
21	28000	54300	18400	25000	41900	34700	72800	52600	47300	11100	4830	2350
22	9360	50300	11900	14200	34500	47800	50600	54200	41700	5220	6170	2980
23	3210	46800	17000	16000	28600	46300	46900	55500	48200	3480	9520	2220
24	9470	46900	10100	26900	32200	59700	45200	62400	46400	10700	9950	3530
25	12000	46000	3630	22300	20300	111000	47000	79800	48500	13000	10500	2770
26	12300	34600	3570	33800	26400	138000	39800	69200	70200	15300	6050	6320
27	12500	19800	8370	37600	25000	124000	25900	55700	56300	14800	4670	4080
28	15500	24400	8310	35000	42900	94500	20500	55200	46400	16700	7880	4760
29	4380	30100	14000	20800	---	79000	19800	59800	45200	9960	7290	4520
30	2990	29200	18700	18500	---	83100	19900	56400	39000	2920	5890	3350
31	1710	---	5160	22200	---	84500	---	45400	---	5410	12100	---
TOTAL	593850	1294900	537240	534980	768090	2125600	2088000	2239500	1508300	481600	204430	192130
MEAN	19160	43160	17330	17260	27430	68570	69600	72240	50280	15540	6595	6404
MAX	41200	58600	37300	37600	50400	138000	96100	149000	70200	29000	12100	19400
MIN	1710	16200	3570	4260	4640	26900	19800	29900	18000	2920	1130	1960
AC-FT	1178000	2568000	1066000	1061000	1524000	4216000	4142000	4442000	2992000	955300	405500	381100

CAL YR 1977 TOTAL 10080160 MEAN 27620 MAX 203000 MIN 1610 AC-FT 19990000
WTR YR 1978 TOTAL 12568620 MEAN 34430 MAX 149000 MIN 1130 AC-FT 24930000

ARKANSAS RIVER BASIN

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1968 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1968 to current year.

COOPERATION.--Chemical records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Sediment records furnished by Corps of Engineers, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,410 mg/L Oct. 29, 1970; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 1,430,000 tons (1,297,000 tonnes) Oct. 29, 1970; minimum daily, 0 tons (0 tonnes) on many days.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 410 mg/L May 9; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily 165,000 tons (150,000 tonnes) May 9; minimum daily, 0 tons (o tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
12...	9827	9827	--	525	8.0	20.0	40	8.2	89	1.0	60	57
NOV												
08...	9827	9827	--	418	7.4	19.0	30	8.6	91	1.5	140	91
DEC												
06...	9827	9827	--	324	7.1	8.0	40	10.8	91	1.3	720	170
JAN												
10...	9827	9827	--	324	7.9	4.0	20	12.7	97	2.5	240	5
FEB												
07...	9827	9827	--	278	7.8	1.0	15	14.1	99	3.0	270	5
22...	1028	--	34800	--	--	2.5	--	--	--	--	--	--
MAR												
07...	9827	9827	--	104	7.2	8.0	10	11.6	97	1.9	1700	290
APR												
04...	9827	9827	--	460	7.6	17.0	80	11.2	115	3.2	--	42
MAY												
02...	9827	9827	--	397	8.1	18.0	35	9.4	99	6.5	800	27
31...	9827	9827	--	453	7.8	23.0	50	7.7	89	1.0	550	64
JUN												
27...	9827	9827	--	925	8.1	29.0	20	8.0	103	1.1	450	20
27...	1028	--	59500	--	--	27.0	--	--	--	--	--	--
AUG												
01...	9827	9827	--	649	8.3	31.0	20	7.3	97	1.1	130	14
SEP												
26...	9827	9827	--	617	8.2	24.0	10	7.4	87	.8	30	<10

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
12...	110	29	7.0	59	4.5	82	28	98	316	28	.59	<.05
NOV												
08...	--	--	--	--	--	--	25	68	232	37	.37	<.05
DEC												
06...	--	--	--	--	--	--	22	40	199	34	.56	<.05
JAN												
10...	85	24	5.7	25	3.1	81	--	36	198	5	.43	<.05
FEB												
07...	--	--	--	--	--	--	17	32	159	14	.42	.01
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	--	--	--	--	--	--	5.0	17	77	26	.19	.01
APR												
04...	68	15	6.1	48	3.8	70	35	68	276	41	.48	.02
MAY												
02...	--	--	--	--	--	--	31	46	242	35	.63	.01
31...	--	--	--	--	--	--	37	64	281	51	.76	.03
JUN												
27...	--	--	--	--	--	--	46	200	531	--	.07	.02
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	140	40	9.0	77	4.0	82	41	110	382	20	.05	.01
SEP												
26...	--	--	--	--	--	--	40	110	333	13	.01	<.01

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
OCT												
12...	.60	<.05	--	.90	1.5	6.6	.13	<5	<10	<5	<10	2000
NOV												
08...	.39	.16	.74	.90	1.3	5.7	.12	--	<10	--	<10	1500
DEC												
06...	.57	.08	.92	1.0	1.6	6.9	.12	8	<10	--	<20	1900
JAN												
10...	.44	<.05	--	.90	1.3	5.9	.09	<5	<10	5	50	720
FEB												
07...	.43	.05	.65	.70	1.1	5.0	.09	--	<10	--	<20	930
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	.20	.09	.71	.80	1.0	4.4	--	--	<10	--	<20	670
APR												
04...	.50	.15	.35	.50	1.0	4.4	.15	<5	<10	7	<20	2900
MAY												
02...	.64	.07	.43	.50	1.1	5.0	.12	--	<10	--	<20	1500
31...	.79	.10	--	--	--	--	.27	--	<10	--	20	2300
JUN												
27...	.00	.11	--	.10	.10	.40	.13	--	<10	--	<20	1400
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	.06	.09	.41	.50	.56	2.5	.15	<5	<10	--	<20	680
SEP												
26...	.01	.04	.36	.40	.41	1.8	.07	--	<10	--	<20	490

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT												
12...	<10	120	--	<10	--	--	--	--	--	--	--	--
NOV												
08...	--	140	--	40	--	--	--	--	--	--	--	--
DEC												
06...	--	140	--	180	.00	.00	.00	.00	.00	.00	.00	0
JAN												
10...	10	88	--	30	--	--	--	--	--	--	--	--
FEB												
07...	--	76	--	40	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	--	81	--	20	--	--	--	--	--	--	--	--
APR												
04...	<10	130	--	10	--	--	--	--	--	--	--	--
MAY												
02...	--	110	--	<10	--	--	--	--	--	--	--	--
31...	--	140	--	80	--	--	--	--	--	--	--	--
JUN												
27...	--	130	--	20	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	<10	77	<1.0	<10	--	--	--	--	--	--	--	--
SEP												
26...	--	--	--	<10	--	--	--	--	--	--	--	--

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	41200	30	3340	16200	10	437	32000	20	1730
2	39700	30	3220	33300	20	1800	27000	20	1460
3	36900	30	2990	40200	30	3260	19500	10	526
4	34200	20	1850	55400	60	8970	23500	10	634
5	34000	20	1840	55800	60	9040	17100	10	462
6	31900	20	1720	37600	30	3050	37300	30	3020
7	30800	20	1660	39600	30	3210	32600	20	1760
8	18500	10	499	32900	20	1780	27700	20	1500
9	23700	20	1280	47000	40	5080	23200	10	626
10	22200	10	599	46800	40	5050	19600	10	529
11	17700	10	478	47500	40	5130	20400	10	551
12	27800	20	1500	47800	40	5160	11800	10	319
13	19900	10	537	45500	30	3690	13300	10	359
14	12800	10	346	48200	40	5210	16400	10	443
15	11900	10	321	45300	30	3670	19500	10	526
16	4330	0	.00	48400	40	5230	13900	10	375
17	7800	0	.00	55200	50	7450	16400	10	443
18	18800	10	508	58600	60	9490	13700	10	370
19	22600	10	610	57700	60	9350	11100	10	300
20	25700	20	1390	53500	50	7220	22100	10	597
21	28000	20	1510	54300	50	7330	18400	10	497
22	9360	10	253	50300	40	5430	11900	10	321
23	3210	0	.00	46800	40	5050	17000	10	459
24	9470	10	256	46900	40	5070	10100	10	273
25	12000	10	324	46000	40	4970	3630	0	.00
26	12300	10	332	34600	20	1870	3570	0	.00
27	12500	10	337	19800	10	535	8370	10	226
28	15500	10	418	24400	20	1320	8310	10	224
29	4380	0	.00	30100	20	1630	14000	10	378
30	2990	0	.00	29200	20	1580	14700	10	505
31	1710	0	.00	---	---	---	5160	0	.00
TOTAL	593850	---	28118.00	1294900	---	138062	537240	---	19413.00

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	6630	0	.00	25100	20	1360	47800	40	5160
2	4640	0	.00	18000	10	486	44000	40	4970
3	5610	0	.00	15400	10	416	54500	50	7360
4	6200	0	.00	10900	10	294	59800	70	11300
5	14200	10	383	9470	10	256	61700	70	11700
6	11600	10	313	12300	10	332	60500	70	11400
7	4260	0	.00	17400	10	470	59200	70	11200
8	11400	10	308	18500	10	499	71100	110	21100
9	17000	10	459	19600	10	529	90600	180	44000
10	20800	10	562	20000	10	540	90100	180	43800
11	8530	10	230	9580	10	259	79400	130	27900
12	12900	10	348	4640	0	.00	66900	90	16300
13	7660	0	.00	19900	10	537	58600	60	9490
14	6390	0	.00	38800	30	3140	68600	100	18500
15	5860	0	.00	40300	30	3260	69700	100	18800
16	14800	10	400	47500	40	5130	60600	70	11500
17	24800	20	1340	50400	40	5440	56600	60	9170
18	28600	20	1540	46700	40	5040	53200	50	7180
19	26700	20	1440	46800	40	5050	41200	30	3340
20	24100	20	1300	45000	30	3650	26900	20	1450
21	25000	20	1350	41900	30	3390	34700	20	1870
22	14200	10	383	34500	20	1860	47800	40	5160
23	16000	10	432	28600	20	1540	46300	40	5000
24	26900	20	1450	32200	20	1740	59700	70	11300
25	22300	10	602	20300	10	548	111000	260	77900
26	33800	20	1830	26400	20	1430	138000	370	138000
27	37600	30	3050	25000	20	1350	124000	310	104000
28	35000	20	1890	42900	30	3470	94500	190	48500
29	20800	10	562	---	---	---	79000	130	27700
30	18500	10	499	---	---	---	83100	150	33700
31	22200	10	599	---	---	---	84500	150	34200
TOTAL	534980	---	21270.00	768090	---	52016.00	2125600	---	782950

ARKANSAS RIVER BASIN

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--CONTINUED

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	86000	160	37200	29900	20	1610	49800	40	5380
2	87700	170	40300	47300	40	5110	57800	60	9360
3	90800	180	44100	46300	40	5000	62500	80	13500
4	84300	150	34100	60400	90	14700	59800	70	11300
5	75500	120	24500	86000	160	37200	47400	40	5120
6	73600	110	21900	94600	100	25500	48300	40	5220
7	75400	120	24400	96500	200	52100	48500	40	5240
8	76800	130	27000	112000	260	78600	55200	50	7450
9	72200	110	21400	149000	410	165000	59200	70	11200
10	71300	110	21200	134000	350	127000	61500	70	11600
11	89900	190	46100	114000	270	83100	53700	50	7250
12	96100	200	51900	104000	230	64600	46700	40	5040
13	90000	170	41300	99100	210	56200	47300	40	5110
14	94600	190	48500	82900	150	33600	46300	40	5000
15	89600	170	41100	69300	100	18700	31700	20	1710
16	87100	160	37600	63200	80	13700	28800	20	1560
17	86900	160	37500	55800	60	9040	18000	10	486
18	91500	180	44500	44800	30	3630	25900	20	1400
19	95000	190	48700	53200	50	7180	42100	30	3410
20	85300	160	36800	51000	40	5510	48600	40	5250
21	72800	110	21600	52600	50	7100	47300	40	5110
22	50600	40	5460	54200	50	7320	61700	70	11700
23	46900	40	5070	55500	60	8990	68200	100	18400
24	45200	30	3660	62400	80	13500	66400	90	16100
25	47000	40	5080	79800	140	30200	68500	100	18500
26	39800	30	3220	69200	100	18700	70200	100	19000
27	25900	20	1400	55700	60	9020	56300	60	9120
28	20500	10	553	55200	50	7450	46400	40	5010
29	19800	10	535	59800	70	11300	45200	30	3660
30	19900	10	537	56400	60	9140	39000	30	3160
31	---	---	---	45400	30	3680	---	---	---
TOTAL	2088000	---	777215	2239500	---	933480	1508300	---	231346

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	22300	10	602	8430	10	228	5810	0	.00
2	24800	20	1340	8810	10	238	3920	0	.00
3	25300	20	1370	10300	10	278	3060	0	.00
4	28800	20	1560	8850	10	239	2000	0	.00
5	29000	20	1570	2090	0	.00	9840	10	266
6	23500	10	634	1690	0	.00	11600	10	313
7	22800	10	616	1130	0	.00	11300	10	305
8	19200	10	518	4300	0	.00	8730	10	236
9	20400	10	551	8610	10	232	3200	0	.00
10	21800	10	589	7130	0	.00	1960	0	.00
11	18800	10	508	7340	0	.00	9670	10	261
12	20100	10	543	4530	0	.00	7280	0	.00
13	23600	20	1270	3390	0	.00	19400	10	524
14	17700	10	478	6470	0	.00	9550	10	258
15	9870	10	266	11800	10	319	7980	0	.00
16	3730	0	.00	4960	0	.00	5220	0	.00
17	9510	10	257	6730	0	.00	7610	0	.00
18	15900	10	429	7140	0	.00	8510	10	230
19	8430	10	228	2250	0	.00	10300	10	278
20	7470	0	.00	3630	0	.00	8310	10	224
21	11100	10	300	4830	0	.00	2350	0	.00
22	5220	0	.00	6170	0	.00	2980	0	.00
23	3480	0	.00	9520	10	257	2220	0	.00
24	10700	10	289	9950	10	269	3530	0	.00
25	13000	10	351	10500	10	283	2770	0	.00
26	15300	10	413	6050	0	.00	6320	0	.00
27	14800	10	400	4670	0	.00	4080	0	.00
28	16700	10	451	7880	0	.00	4760	0	.00
29	9960	10	269	7290	0	.00	4520	0	.00
30	2920	0	.00	5890	0	.00	3350	0	.00
31	5410	0	.00	12100	10	327	---	---	---
TOTAL	481600	---	15802.00	204430	---	2670.00	192130	---	2895.00
YEAR	12568620		3005237.00						

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR
(National radiochemical station)
(National stream-quality accounting network station)

LOCATION.--Lat 34°40'07", long 92°09'18", sec.35, T.1 N., R.11 W., Pulaski County, Hydrologic Unit 11110207, at upper end of upstream wall at David D. Terry Lock and Dam, 10.7 mi (17.2 km) downstream from Main Street bridge at Little Rock, and at mile 124.2 (199.8 km).

DRAINAGE AREA.--158,288 mi² (409,966 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1970 to current year.
pH: April 1970 to current year.
WATER TEMPERATURES: October 1969 to current year.
DISSOLVED OXYGEN: October 1969 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1969.

REMARKS.--Discharge figures are for station 07263450, 16.8 mi (26.0 km) upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
25...	1028	1028	6760	576	7.8	19.0	--	8.4	93	K3200	780	120
NOV												
21...	1028	1028	57100	381	8.0	13.5	--	9.8	97	1500	K10000	110
DEC												
19...	1028	1028	8090	295	7.7	8.5	--	11.0	97	K9800	940	83
JAN												
24...	1028	1028	24600	290	7.4	2.5	--	12.5	95	K200	340	83
FEB												
13...	1028	1028	10400	334	7.7	2.0	--	13.5	101	K530	1100	94
APR												
03...	1028	1028	92100	499	7.9	14.0	--	9.9	71	K110	150	110
17...	1028	1028	86900	452	7.8	18.0	--	--	--	520	--	130
MAY												
24...	1028	1028	64400	355	7.5	22.5	50	8.3	98	930	K60	97
JUN												
07...	1028	1028	44900	545	7.8	25.0	45	8.1	100	--	560	120
JUL												
12...	1028	1028	--	--	--	--	--	--	--	--	--	--
12...	1028	1028	11500	631	7.9	31.0	20	6.6	89	K16000	K52	130
AUG												
10...	1028	1028	5170	676	7.9	29.0	5.2	6.1	80	K390	88	130
SEP												
06...	1028	1028	9160	721	7.9	27.0	4.3	7.2	91	K7800	160	150

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT												
25...	40	37	7.2	65	53	2.6	4.2	100	0	82	2.5	41
NOV												
21...	26	33	6.3	31	37	1.3	3.8	100	0	82	1.6	24
DEC												
19...	25	25	5.0	24	37	1.1	3.3	71	0	58	2.3	22
JAN												
24...	28	25	5.0	23	37	1.1	2.8	67	0	55	4.3	23
FEB												
13...	23	28	5.8	28	38	1.3	3.0	86	0	71	2.7	28
APR												
03...	38	32	6.8	60	54	2.5	3.2	85	0	70	1.7	36
17...	42	41	7.3	39	38	1.5	3.5	110	0	90	2.8	35
MAY												
24...	27	29	6.0	31	40	1.4	2.8	--	--	70	--	31
JUN												
07...	40	35	8.3	63	52	2.5	3.4	100	0	82	2.5	40
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	47	38	8.2	73	54	2.8	3.8	--	--	82	--	41
AUG												
10...	36	39	8.7	76	54	2.9	4.1	--	--	97	--	51
SEP												
06...	48	43	9.4	82	54	3.0	3.9	--	--	98	--	48

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
OCT												
25...	93	.2	7.5	312	305	.42	5700	.50	.06	--	--	--
NOV												
21...	45	.2	6.9	193	200	.26	29800	.44	.04	--	--	--
DEC												
19...	36	.2	7.3	162	158	.22	3540	.50	.00	--	--	--
JAN												
24...	38	.1	6.7	166	157	.23	11000	.42	.02	--	--	--
FEB												
13...	39	.2	6.4	189	181	.26	5310	.44	.08	.57	.65	.36
APR												
03...	86	.4	5.6	275	272	.37	68400	.62	.11	.60	.71	.07
17...	65	.1	6.1	246	251	.33	57700	.70	.08	.64	.72	.38
MAY												
24...	45	.1	5.6	197	193	.27	34300	.62	.05	--	--	--
JUN												
07...	97	.2	5.6	299	302	.41	36200	.70	.05	.59	.64	.00
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	110	.2	5.2	345	329	.47	10700	.43	.07	.67	.74	.21
AUG												
10...	120	.2	.4	360	358	.49	5030	.04	.16	.65	.81	.14
SEP												
06...	140	.3	1.0	383	387	.52	9470	.05	.10	.55	.65	.23

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT												
25...	.68	--	--	.15	.09	2	0	2	500	500	0	160
NOV												
21...	.50	--	--	.14	.09	--	--	--	--	--	--	--
DEC												
19...	.54	--	--	.11	.06	--	--	--	--	--	--	--
JAN												
24...	.60	--	--	.12	.08	1	0	1	100	100	0	3
FEB												
13...	.29	1.1	4.8	.11	.07	--	--	--	--	--	--	--
APR												
03...	.64	1.3	5.9	.12	.04	2	1	1	100	100	0	1
17...	.34	1.4	6.3	.13	.05	4	3	1	100	0	100	1
MAY												
24...	.61	--	--	.10	.03	--	--	--	--	--	--	--
JUN												
07...	.64	1.3	5.9	.09	.02	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	.53	1.2	5.2	.09	.07	2	1	1	300	0	300	1
AUG												
10...	.67	.85	3.8	.08	.04	--	--	--	--	--	--	--
SEP												
06...	.42	.70	3.1	.09	.05	--	--	--	--	--	--	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
OCT												
25...	82	78	10	0	10	<50	<50	0	10	5	5	920
NOV												
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
24...	2	1	10	0	10	1	1	0	43	38	5	540
FEB												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
03...	0	1	10	10	0	3	3	0	13	5	8	940
17...	1	0	0	0	0	1	1	0	7	3	4	1700
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	1	0	0	0	0	0	0	0	18	14	4	590
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOV. (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)
OCT											
25...	40	100	100	0	90	80	10	.0	.0	.0	4
NOV											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
24...	60	12	9	3	60	30	30	.0	.0	.0	0
FEB											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	20	10	9	1	80	70	10	.0	.0	.0	0
17...	70	62	62	0	110	70	40	.0	.0	.0	0
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	20	16	16	0	70	70	0	.0	.0	.0	1
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG) (01076)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	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)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)
OCT											
25...	4	0	<10	<10	0	40	30	10	--	--	--
NOV											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
24...	0	1	0	0	0	30	10	20	--	--	--
FEB											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	0	0	0	0	0	30	20	10	<3.3	2.6	5.2
17...	0	0	0	0	0	20	20	0	--	--	--
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	1	0	0	0	0	20	20	0	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

DATE	GROSS BETA, SUSP, TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP, TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DISSOLVED, EXTRACTION (UG/L) (80020)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
25...	--	--	--	--	--	4.9	4.9	--	36	657	80
NOV											
21...	--	--	--	--	--	--	--	--	46	7090	87
DEC											
19...	--	--	--	--	--	4.0	--	--	31	677	92
JAN											
24...	--	--	--	--	--	--	4.0	.8	20	1330	74
FEB											
13...	--	--	--	--	--	7.4	--	--	27	758	54
APR											
03...	2.3	4.5	2.2	.78	.30	--	6.6	1.1	52	12900	90
17...	--	--	--	--	--	--	5.7	2.3	--	--	--
MAY											
24...	--	--	--	--	--	5.4	--	--	64	11100	92
JUN											
07...	--	--	--	--	--	5.8	--	--	53	6430	67
JUL											
12...	--	--	--	--	--	--	--	--	26	807	92
AUG											
10...	--	--	--	--	--	5.9	--	--	22	307	40
SEP											
06...	--	--	--	--	--	--	--	--	21	519	69

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

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

PHYTOPLANKTON

DATE	DEC 19,77	JUN 7,78	JUL 12,78
TIME	1400	0930	1215
TOTAL CELLS/ML	890	970	18000
DIVERSITY: DIVISION	1.7	1.6	1.4
.CLASS	1.7	1.6	1.4
..ORDER	2.0	1.9	1.9
...FAMILY	2.2	2.5	2.2
....GENUS	2.8	3.3	3.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	--	-	48	5	390	2
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	190	1
...OOCYSTACEAE						
....ANKISTRODESMUS	21	2	--	-	150	1
....CHODATELLA	--	-	8	1	--	-
....CLOSTERIOPSIS	--	-	8	1	--	-
....DICTYOSPHAERIUM	71	8	--	-	390	2
....KIRCHNERIELLA	28	3	16	2	--	-
....OOCYSTIS	--	-	40	4	--	-
....SELENASTRUM	14	2	8	1	190	1
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	56	6	580	3
....CRUCIGENIA	--	-	24	2	--	-
....SCENEDESMUS	85	10	220#	23	1700	10
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	35	4	16	2	530	3
..ZYGNEMATALES						
...DESMIDIACEAE						
....CLOSTERIUM	7	1	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	130	14	220#	23	1300	7
....MELOSIRA	150#	17	96	10	530	3
....STEPHANODISCUS	--	-	16	2	--	-
..PENNALES						
...NAVICULACEAE						
....NAVICULA	--	-	--	-	*	0
...NITZSCHIACEAE						
....NITZSCHIA	--	-	32	3	1200	7
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROCOCCALES						
...CHROCOCCACEAE						
....AGMENELLUM	--	-	--	-	3500#	20
....ANACYSTIS	320#	36	88	9	6400#	36
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	40	4	630	4
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	28	3	24	2	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	--	-	--	-	*	0

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
JULY 12	35	106	92.0	14.0	19.6	.000	.714	POLYETHYLENE STRIP

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	592	537	563	537	533	535	343	338	340			
2	536	498	517	531	519	525	341	337	339			
3	501	490	495	513	495	505	339	331	336			
4	491	487	489	488	412	448	334	323	327			
5	494	490	491	408	393	397	325	318	322			
6	498	494	496	412	399	404	319	306	311			
7	503	499	501	411	401	406	304	296	298			
8	518	509	513	406	398	400	313	297	304			
9	527	515	522	408	397	404	315	307	310			
10	534	528	530	418	401	410	308	302	305			
11	536	529	532	440	425	435	302	296	299			
12	540	530	535	447	440	444	295	293	294			
13	557	542	551	448	442	444	298	293	296			
14	572	560	565	452	448	450	302	298	300			
15	577	570	574	478	454	463	304	300	301			
16	584	575	577	508	484	496	305	301	303			
17	583	577	580	520	515	518	303	290	298			
18	601	582	592	---	---	---	292	285	288			
19	603	594	598	---	---	---	291	284	287			
20	607	598	603	---	---	---	---	---	---			
21	611	606	609	---	---	---	---	---	---			
22	602	593	598	350	344	347	---	---	---			
23	590	586	588	346	335	340	---	---	---			
24	585	578	582	337	334	335	---	---	---			
25	584	575	580	348	337	343	---	---	---			
26	581	563	573	354	348	351	---	---	---			
27	565	559	562	362	353	357	---	---	---			
28	560	554	557	360	352	357	---	---	---			
29	556	545	551	354	342	348	---	---	---			
30	545	542	544	343	339	341	---	---	---			
31	543	539	541	---	---	---	---	---	---			
MONTH	611	487	552	537	334	416	343	284	308			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	483	447	463	---	---	---
2	---	---	---	---	---	---	512	482	498	---	---	---
3	---	---	---	575	572	573	508	489	499	---	---	---
4	---	---	---	571	564	567	500	481	489	---	---	---
5	---	---	---	563	550	556	481	459	470	---	---	---
6	281	278	279	544	528	536	456	432	444	---	---	---
7	283	279	281	522	499	513	431	412	419	---	---	---
8	285	281	283	492	476	483	430	410	418	---	---	---
9	294	284	288	490	468	475	455	429	440	---	---	---
10	311	297	304	535	489	511	457	449	455	---	---	---
11	325	313	318	555	529	543	445	422	436	---	---	---
12	329	326	327	553	549	550	418	405	410	---	---	---
13	337	332	335	543	525	535	437	409	421	248	235	241
14	328	324	326	515	503	506	465	434	450	259	245	252
15	---	---	---	509	502	505	468	462	465	258	254	257
16	---	---	---	501	494	497	---	---	---	264	255	259
17	---	---	---	494	487	490	---	---	---	273	261	267
18	---	---	---	493	487	490	---	---	---	281	269	275
19	---	---	---	499	486	492	---	---	---	290	276	281
20	---	---	---	387	486	494	---	---	---	300	288	294
21	---	---	---	500	490	495	---	---	---	---	---	---
22	---	---	---	503	484	494	---	---	---	---	---	---
23	---	---	---	528	501	516	---	---	---	---	---	---
24	---	---	---	528	512	522	---	---	---	---	---	---
25	---	---	---	510	498	503	---	---	---	---	---	---
26	---	---	---	496	463	485	---	---	---	---	---	---
27	---	---	---	459	394	429	---	---	---	---	---	---
28	---	---	---	387	357	366	---	---	---	---	---	---
29	---	---	---	373	355	362	---	---	---	---	---	---
30	---	---	---	410	372	389	---	---	---	---	---	---
31	---	---	---	451	412	431	---	---	---	---	---	---
MONTH	337	278	305	575	355	493	512	405	452	300	235	266

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	929	918	922	666	656	661	709	676	691
2	---	---	---	915	865	894	660	652	656	716	701	712
3	---	---	---	869	841	859	665	646	653	731	711	724
4	---	---	---	837	797	815	647	638	642	734	725	729
5	---	---	---	789	773	782	650	637	643	743	702	733
6	---	---	---	768	734	750	660	638	647	740	709	723
7	---	---	---	733	666	712	655	646	650	748	707	728
8	---	---	---	710	685	698	665	649	655	760	723	740
9	564	552	560	692	672	683	668	653	661	741	730	735
10	573	559	566	686	648	667	684	672	678	745	734	740
11	586	571	577	653	619	634	696	681	688	743	724	734
12	587	582	585	637	624	630	696	685	690	741	727	734
13	587	575	581	810	---	---	695	689	692	738	583	695
14	609	581	594	700	692	697	697	690	693	565	335	431
15	635	607	622	704	686	691	710	693	701	337	250	283
16	652	625	640	701	682	690	720	707	713	335	287	319
17	662	647	653	688	677	681	726	715	721	434	309	369
18	693	660	675	682	675	679	736	723	728	445	397	427
19	733	684	704	680	673	676	741	730	735	---	---	---
20	803	737	769	681	672	675	744	728	736	---	---	---
21	836	803	817	624	616	621	745	731	738	---	---	---
22	844	818	834	628	617	623	756	733	740	---	---	---
23	812	756	776	632	623	627	752	736	742	---	---	---
24	761	745	750	633	624	629	775	749	762	---	---	---
25	786	753	765	642	630	635	794	776	783	---	---	---
26	859	786	826	---	---	---	803	790	797	---	---	---
27	887	857	876	---	---	---	815	801	807	547	543	545
28	899	883	890	678	674	676	816	806	812	571	548	557
29	918	889	902	678	663	671	819	757	792	610	567	584
30	938	913	927	679	669	672	757	741	748	628	607	621
31	---	---	---	671	662	665	744	668	693	---	---	---
MONTH	938	552	722	929	616	702	819	637	712	760	250	616

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.5	25.0	25.5	19.5	19.0	19.0	9.5	9.0	9.0			
2	25.5	24.5	25.0	19.0	18.0	18.5	9.5	9.0	9.5			
3	24.5	24.0	24.0	18.0	17.5	18.0	10.0	9.5	9.5			
4	23.5	23.5	23.5	18.0	17.5	18.0	9.5	9.5	9.5			
5	23.5	23.5	23.5	18.0	18.0	18.0	9.5	9.5	9.5			
6	23.5	23.0	23.0	18.5	18.0	18.5	9.5	8.0	8.5			
7	23.0	22.5	22.5	18.5	18.0	18.5	8.0	7.0	7.5			
8	22.5	22.0	22.5	18.5	18.0	18.5	7.5	7.0	7.5			
9	22.0	21.5	22.0	18.5	16.5	17.5	7.5	6.5	7.0			
10	21.5	21.5	21.5	16.5	15.0	15.5	6.5	6.0	6.5			
11	21.5	20.5	21.0	15.0	14.5	15.0	6.0	5.5	6.0			
12	20.5	19.5	20.0	15.0	14.5	14.5	5.5	5.5	5.5			
13	19.5	19.0	19.5	14.5	14.0	14.0	6.0	6.0	6.0			
14	20.0	19.0	19.5	14.0	13.5	14.0	6.5	6.0	6.5			
15	19.5	19.0	19.0	14.0	13.5	13.5	7.0	6.5	7.0			
16	19.0	18.5	18.5	14.0	14.0	14.0	7.5	7.0	7.0			
17	18.5	18.0	18.0	14.5	14.0	14.0	8.0	7.5	7.5			
18	19.0	18.0	18.0	---	---	---	8.0	7.5	8.0			
19	18.5	18.0	18.0	---	---	---	8.5	8.0	8.0			
20	18.5	18.0	18.0	---	---	---	---	---	---			
21	18.5	18.0	18.0	---	---	---	---	---	---			
22	19.0	18.5	18.5	12.5	12.5	12.5	---	---	---			
23	19.0	18.5	18.5	12.5	12.5	12.5	---	---	---			
24	19.0	19.0	19.0	12.5	12.5	12.5	---	---	---			
25	20.0	19.0	19.5	12.5	12.5	12.5	---	---	---			
26	19.5	19.0	19.0	12.0	11.0	11.5	---	---	---			
27	19.5	19.0	19.0	11.0	11.0	11.0	---	---	---			
28	19.0	19.0	19.0	11.0	10.0	10.5	---	---	---			
29	20.0	19.0	19.0	10.0	9.0	9.5	---	---	---			
30	19.5	19.0	19.0	9.0	9.0	9.0	---	---	---			
31	19.5	19.0	19.0	---	---	---	---	---	---			
MONTH	25.5	18.0	20.5	19.5	9.0	14.5	10.0	5.5	7.5			

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	14.0	13.0	13.5	---	---	---
2	---	---	---	---	---	---	14.5	13.5	14.0	---	---	---
3	---	---	---	4.0	4.0	4.0	14.5	14.0	14.5	---	---	---
4	---	---	---	4.0	3.5	4.0	15.5	14.5	15.0	---	---	---
5	---	---	---	4.5	4.0	4.0	16.0	15.0	15.5	---	---	---
6	2.5	2.0	2.5	4.5	4.5	4.5	17.0	16.0	16.5	---	---	---
7	2.5	2.0	2.0	5.5	4.5	5.0	17.5	17.0	17.0	---	---	---
8	2.0	1.5	2.0	5.0	5.0	5.0	18.0	17.5	18.0	---	---	---
9	2.0	1.5	1.5	5.0	5.0	5.0	19.0	18.0	18.5	---	---	---
10	1.5	1.5	1.5	6.0	5.0	5.5	19.0	18.0	18.5	---	---	---
11	2.0	1.5	2.0	6.5	6.0	6.0	18.0	17.5	18.0	---	---	---
12	2.5	2.0	2.0	7.0	6.5	6.5	18.0	17.0	17.5	---	---	---
13	3.0	2.5	2.5	7.0	7.0	7.0	18.0	17.5	18.0	19.0	18.5	19.0
14	2.5	2.0	2.5	8.0	7.0	7.5	18.5	17.5	18.0	19.5	18.5	19.0
15	---	---	---	8.0	8.0	8.0	18.0	17.5	18.0	20.0	19.0	19.5
16	---	---	---	8.5	7.5	8.0	---	---	---	20.0	19.5	20.0
17	---	---	---	9.0	8.0	8.5	---	---	---	20.0	19.5	20.0
18	---	---	---	9.5	8.5	9.0	---	---	---	20.0	19.5	19.5
19	---	---	---	10.0	10.0	10.0	---	---	---	21.0	20.0	20.0
20	---	---	---	12.0	10.0	10.5	---	---	---	21.0	20.5	20.5
21	---	---	---	12.0	11.0	11.5	---	---	---	---	---	---
22	---	---	---	12.5	12.0	12.0	---	---	---	---	---	---
23	---	---	---	12.5	12.0	12.5	---	---	---	---	---	---
24	---	---	---	12.5	12.5	12.5	---	---	---	---	---	---
25	---	---	---	12.5	11.0	11.5	---	---	---	---	---	---
26	---	---	---	11.5	11.0	11.0	---	---	---	---	---	---
27	---	---	---	11.5	11.0	11.0	---	---	---	---	---	---
28	---	---	---	12.0	11.0	11.5	---	---	---	---	---	---
29	---	---	---	12.0	11.0	11.5	---	---	---	---	---	---
30	---	---	---	12.5	11.5	12.0	---	---	---	---	---	---
31	---	---	---	13.5	12.0	12.5	---	---	---	---	---	---
MONTH	3.0	1.5	2.0	13.5	3.5	8.5	19.0	13.0	16.5	21.0	18.5	19.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	30.5	30.0	30.5	30.5	30.0	30.5	27.0	26.0	26.0
2	---	---	---	30.5	30.0	30.5	30.5	30.0	30.0	27.0	26.0	26.5
3	---	---	---	31.0	30.0	30.5	31.5	30.0	30.0	27.0	26.5	26.5
4	---	---	---	31.0	30.0	30.5	30.0	29.0	29.5	27.0	26.5	27.0
5	---	---	---	31.5	30.5	31.0	29.5	28.5	29.0	28.0	27.0	27.5
6	---	---	---	31.5	31.0	31.0	30.0	28.0	29.0	29.0	27.0	27.5
7	---	---	---	31.5	30.5	31.5	29.0	28.5	29.0	28.5	27.0	27.5
8	---	---	---	31.5	31.0	31.0	30.0	28.5	29.0	29.0	27.5	28.0
9	25.5	25.0	25.5	31.5	31.0	31.5	29.5	28.5	29.0	28.5	28.0	28.0
10	25.5	25.0	25.5	32.0	31.5	31.5	30.0	29.0	29.5	28.5	28.0	28.0
11	26.0	25.5	25.5	31.5	31.0	31.5	30.0	29.0	29.5	28.0	27.5	28.0
12	26.0	26.0	26.0	31.5	31.0	31.0	29.5	28.5	29.0	27.5	27.0	27.5
13	26.5	25.5	26.0	32.0	31.0	31.5	29.0	28.5	29.0	27.0	26.0	27.0
14	26.5	26.0	26.0	31.5	---	---	29.0	28.5	28.5	26.0	25.0	25.5
15	27.0	26.0	26.5	33.0	31.0	31.5	29.0	28.5	29.0	25.0	24.0	24.5
16	27.0	26.5	26.5	32.5	31.0	31.5	29.5	28.5	29.0	25.0	24.5	25.0
17	27.5	26.5	27.0	31.5	30.5	31.0	29.5	29.0	29.0	26.0	25.0	25.5
18	27.5	27.0	27.5	31.5	30.5	31.0	30.0	29.0	29.5	26.0	25.5	26.0
19	27.5	27.0	27.5	31.0	30.5	31.0	30.0	29.0	29.5	---	---	---
20	27.5	27.5	27.5	31.0	30.5	31.0	29.5	28.5	29.0	---	---	---
21	27.5	27.0	27.0	31.0	30.5	30.5	29.5	28.5	29.0	---	---	---
22	27.5	27.0	27.0	31.0	30.5	30.5	30.0	28.0	28.5	---	---	---
23	28.0	27.0	27.5	31.0	30.0	30.5	29.5	28.5	29.0	---	---	---
24	28.0	27.5	28.0	30.5	30.0	30.5	29.5	28.5	29.0	---	---	---
25	28.5	28.0	28.0	31.0	30.5	30.5	30.0	29.0	29.5	---	---	---
26	28.5	28.0	28.5	---	---	---	30.0	29.0	29.5	---	---	---
27	29.0	28.5	29.0	---	---	---	30.0	29.0	29.5	26.0	25.5	26.0
28	30.0	29.0	29.5	30.5	30.0	30.0	29.5	29.0	29.5	25.5	25.0	25.0
29	30.5	29.5	30.0	30.5	29.5	30.0	29.0	27.0	28.0	25.5	24.5	25.0
30	30.5	30.0	30.5	31.0	30.0	30.5	26.5	26.0	26.0	25.5	24.5	25.0
31	---	---	---	30.5	30.0	30.0	26.5	25.5	26.0	---	---	---
MONTH	30.5	25.0	27.5	33.0	29.5	31.0	31.5	25.5	29.0	29.0	24.0	26.5

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	6.5	6.8	7.5	7.3	7.4	10.4	10.3	10.4			
2	7.4	7.0	7.1	7.9	7.0	7.7	10.4	10.3	10.4			
3	7.7	7.1	7.4	8.0	7.9	8.0	10.3	10.1	10.2			
4	7.5	7.3	7.4	8.0	7.7	7.8	10.1	10.0	10.1			
5	10.0	7.5	9.2	7.8	7.7	7.7	10.1	10.0	10.0			
6	10.1	9.4	9.9	7.7	7.6	7.7	10.3	10.0	10.2			
7	9.8	9.4	9.6	7.6	7.5	7.6	10.3	10.2	10.3			
8	9.5	9.1	9.3	7.5	7.3	7.4	10.5	10.3	10.4			
9	9.0	8.8	8.9	8.1	7.5	7.7	10.9	10.6	10.7			
10	8.5	8.3	8.4	8.7	8.1	8.5	11.0	11.0	11.0			
11	8.7	8.0	8.4	8.8	8.7	8.8	11.2	11.1	11.1			
12	9.0	8.0	8.6	8.9	8.7	8.8	11.2	11.1	11.2			
13	8.6	8.3	8.5	9.1	8.9	9.0	11.2	11.1	11.2			
14	7.9	5.8	6.8	9.2	9.0	9.1	11.2	11.1	11.1			
15	7.6	6.8	7.2	9.2	9.1	9.1	11.2	11.1	11.2			
16	8.1	7.5	7.8	9.0	8.9	9.0	11.2	11.1	11.2			
17	8.4	8.0	8.2	9.0	8.9	8.9	11.3	11.0	11.1			
18	8.2	7.9	8.1	---	---	---	11.1	11.1	11.1			
19	8.5	8.1	8.3	---	---	---	11.2	11.0	11.1			
20	8.3	7.9	8.1	---	---	---	---	---	---			
21	8.2	7.8	8.0	---	---	---	---	---	---			
22	8.3	8.0	8.1	10.4	10.2	10.2	---	---	---			
23	8.5	8.0	8.2	10.1	10.0	10.1	---	---	---			
24	8.4	8.1	8.3	10.0	9.9	10.0	---	---	---			
25	8.9	8.3	8.5	10.1	9.9	9.9	---	---	---			
26	8.6	8.2	8.3	10.2	10.0	10.1	---	---	---			
27	8.1	7.9	8.0	10.3	10.1	10.2	---	---	---			
28	8.0	7.7	7.8	10.3	10.2	10.3	---	---	---			
29	8.1	7.6	7.8	11.0	10.3	10.8	---	---	---			
30	7.9	7.5	7.7	10.9	10.8	10.8	---	---	---			
31	7.6	7.3	7.4	---	---	---	---	---	---			
MONTH	10.1	5.8	8.1	11.0	7.0	9.0	11.3	10.0	10.7			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.1	9.9	10.0	---	---	---
2	---	---	---	---	---	---	10.0	9.8	9.9	---	---	---
3	---	---	---	14.0	13.8	14.0	9.9	9.8	9.9	---	---	---
4	---	---	---	14.8	14.0	14.3	10.2	8.6	9.8	---	---	---
5	---	---	---	14.5	13.7	14.1	10.1	9.7	10.0	---	---	---
6	12.5	12.4	12.4	14.0	13.5	13.8	9.9	9.7	9.8	---	---	---
7	12.5	12.4	12.5	14.1	13.4	13.7	9.7	9.5	9.6	---	---	---
8	12.5	12.4	12.5	14.0	13.5	13.8	9.6	9.5	9.6	---	---	---
9	12.5	12.5	12.5	13.7	13.4	13.6	9.6	9.5	9.5	---	---	---
10	12.6	12.5	12.5	13.6	12.7	13.2	9.5	9.3	9.4	---	---	---
11	12.6	12.5	12.6	13.7	12.8	13.2	9.5	9.3	9.4	---	---	---
12	12.6	12.5	12.6	13.4	12.9	13.2	9.6	9.4	9.5	---	---	---
13	12.5	12.3	12.4	13.5	13.0	13.2	9.6	9.5	9.5	9.1	8.8	9.0
14	12.6	12.4	12.5	12.9	12.1	12.6	9.7	9.5	9.6	9.1	9.0	9.0
15	---	---	---	12.8	12.4	12.5	9.6	9.5	9.6	9.0	8.6	8.9
16	---	---	---	12.9	12.5	12.7	---	---	---	8.8	8.7	8.7
17	---	---	---	12.6	12.0	12.4	---	---	---	8.7	8.6	8.7
18	---	---	---	12.4	11.4	11.9	---	---	---	8.6	8.4	8.5
19	---	---	---	13.2	11.9	12.4	---	---	---	8.5	7.6	8.4
20	---	---	---	13.4	11.7	12.7	---	---	---	8.4	8.3	8.3
21	---	---	---	11.9	11.6	11.8	---	---	---	---	---	---
22	---	---	---	11.7	11.4	11.5	---	---	---	---	---	---
23	---	---	---	11.7	11.4	11.6	---	---	---	---	---	---
24	---	---	---	11.6	11.3	11.4	---	---	---	---	---	---
25	---	---	---	11.2	11.0	11.1	---	---	---	---	---	---
26	---	---	---	11.1	10.9	11.1	---	---	---	---	---	---
27	---	---	---	11.0	10.5	10.8	---	---	---	---	---	---
28	---	---	---	10.9	10.0	10.5	---	---	---	---	---	---
29	---	---	---	10.5	9.7	10.2	---	---	---	---	---	---
30	---	---	---	10.3	10.1	10.2	---	---	---	---	---	---
31	---	---	---	10.3	10.0	10.2	---	---	---	---	---	---
MONTH	12.6	12.3	12.5	14.8	9.7	12.3	10.2	8.6	9.7	9.1	7.6	8.7

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	9.0	8.7	8.8	8.2	6.9	7.5	6.3	5.7	5.9
2	---	---	---	9.0	8.6	8.8	8.0	6.9	7.3	6.6	5.9	6.2
3	---	---	---	8.8	8.5	8.7	8.8	6.8	7.2	6.3	5.7	6.0
4	---	---	---	8.9	8.6	8.7	7.1	6.6	6.8	6.9	5.7	6.2
5	---	---	---	8.9	8.6	8.7	7.8	6.6	7.0	8.3	6.4	7.3
6	---	---	---	8.9	8.6	8.7	8.1	6.8	7.5	9.4	6.9	7.6
7	---	---	---	9.8	8.2	8.3	7.9	7.1	7.5	8.5	6.8	7.2
8	---	---	---	8.1	7.7	7.9	8.5	6.7	7.8	8.7	6.7	7.3
9	8.9	8.5	8.6	8.0	7.5	7.7	6.6	5.9	6.2	8.5	6.8	7.3
10	10.6	9.0	9.8	7.8	7.3	7.5	8.8	6.0	7.1	8.0	6.5	7.4
11	9.4	9.0	9.2	7.4	6.8	7.1	8.3	7.3	7.8	7.6	6.5	6.9
12	9.3	9.1	9.2	6.9	6.5	6.7	7.4	6.6	7.0	6.9	6.5	6.7
13	9.2	9.0	9.2	8.0	---	---	7.3	6.1	6.6	6.7	6.5	6.6
14	9.2	9.1	9.1	7.7	7.1	7.5	6.4	5.7	6.0	6.4	5.8	6.1
15	9.3	9.2	9.3	9.6	7.0	9.0	6.5	5.7	6.1	5.7	5.2	5.4
16	9.3	9.1	9.2	9.7	7.8	8.5	7.2	6.1	6.5	5.2	4.8	5.0
17	9.2	8.4	8.9	8.9	6.5	7.5	7.3	6.3	6.7	5.2	4.9	5.0
18	8.5	7.8	8.1	7.9	6.7	7.1	7.3	6.2	6.6	5.5	4.9	5.1
19	8.0	7.6	7.8	7.6	6.8	7.0	7.7	6.4	6.8	---	---	---
20	7.8	7.6	7.6	7.2	6.8	6.9	7.5	6.4	6.9	---	---	---
21	7.7	7.6	7.6	7.3	7.0	7.1	7.3	6.3	6.8	---	---	---
22	7.8	7.7	7.7	7.7	7.2	7.4	8.8	5.7	6.4	---	---	---
23	7.9	7.7	7.8	7.7	7.1	7.4	7.2	5.9	6.4	---	---	---
24	8.1	7.9	8.0	7.7	7.3	7.5	7.3	6.2	6.5	---	---	---
25	8.2	8.0	8.1	7.7	7.3	7.4	7.1	6.2	6.6	---	---	---
26	8.4	8.3	8.3	---	---	---	6.7	6.1	6.3	---	---	---
27	8.6	8.4	8.5	---	---	---	6.5	5.9	6.3	8.4	8.2	8.3
28	9.0	8.5	8.8	7.5	7.0	7.2	6.6	6.0	6.2	8.3	7.4	7.8
29	9.1	8.6	8.8	7.9	7.0	7.3	6.5	5.9	6.2	8.5	7.2	7.5
30	9.2	8.8	9.0	8.2	7.1	7.5	6.6	6.4	6.6	8.3	7.3	7.7
31	---	---	---	7.8	6.8	7.3	6.3	5.7	5.9	---	---	---
MONTH	10.6	7.6	8.6	9.8	6.5	7.8	8.8	5.7	6.8	9.4	4.8	6.7

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	7.6	7.6	7.8	7.7	7.7	7.8	7.8	7.8			
2	7.6	7.6	7.6	7.8	7.7	7.8	7.8	7.8	7.8			
3	7.6	7.6	7.6	7.8	7.7	7.8	7.8	7.7	7.8			
4	7.6	7.6	7.6	7.7	7.5	7.6	7.7	7.7	7.7			
5	7.7	7.6	7.6	7.5	7.4	7.4	7.7	7.6	7.7			
6	7.7	7.6	7.7	7.5	7.5	7.5	7.8	7.7	7.7			
7	7.7	7.6	7.6	7.5	7.4	7.5	7.8	7.7	7.7			
8	7.7	7.6	7.7	7.5	7.4	7.4	7.8	7.7	7.8			
9	7.7	7.7	7.7	7.6	7.5	7.6	7.8	7.8	7.8			
10	7.7	7.7	7.7	7.8	7.6	7.7	7.8	7.8	7.8			
11	7.7	7.7	7.7	7.8	7.8	7.8	7.8	7.8	7.8			
12	7.8	7.7	7.7	7.8	7.7	7.7	7.8	7.8	7.8			
13	7.8	7.7	7.8	7.8	7.7	7.8	7.8	7.8	7.8			
14	7.7	7.6	7.7	7.8	7.8	7.8	7.8	7.7	7.8			
15	7.7	7.7	7.7	7.9	7.8	7.8	7.8	7.8	7.8			
16	7.9	7.7	7.8	7.9	7.8	7.9	7.8	7.7	7.8			
17	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.8			
18	7.9	7.8	7.8	---	---	---	7.7	7.7	7.7			
19	7.9	7.8	7.9	---	---	---	7.7	7.7	7.7			
20	7.9	7.8	7.8	---	---	---	---	---	---			
21	8.0	7.9	7.9	---	---	---	---	---	---			
22	8.0	7.9	7.9	7.8	7.8	7.8	---	---	---			
23	7.9	7.8	7.9	7.8	7.7	7.8	---	---	---			
24	7.9	7.8	7.9	7.7	7.7	7.7	---	---	---			
25	8.0	7.9	7.9	7.8	7.7	7.7	---	---	---			
26	8.0	7.9	7.9	7.8	7.8	7.8	---	---	---			
27	7.9	7.8	7.8	7.9	7.8	7.9	---	---	---			
28	7.8	7.7	7.8	7.9	7.8	7.9	---	---	---			
29	7.9	7.8	7.8	7.9	7.8	7.8	---	---	---			
30	7.8	7.7	7.8	7.8	7.8	7.8	---	---	---			
31	7.8	7.7	7.7	---	---	---	---	---	---			
MONTH	8.0	7.6	7.8	7.9	7.4	7.7	7.8	7.6	7.8			

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--CONTINUED

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	7.9	7.9	7.9	---	---	---
2	---	---	---	---	---	---	7.9	7.9	7.9	---	---	---
3	---	---	---	8.3	8.3	8.3	8.0	7.9	7.9	---	---	---
4	---	---	---	8.3	8.2	8.3	7.7	7.6	7.7	---	---	---
5	---	---	---	8.2	8.1	8.2	7.7	7.7	7.7	---	---	---
6	7.7	7.5	7.7	8.1	7.9	8.0	7.7	7.7	7.7	---	---	---
7	7.8	7.7	7.8	7.9	7.8	7.8	7.7	7.7	7.7	---	---	---
8	7.8	7.8	7.8	7.8	7.7	7.8	7.8	7.7	7.7	---	---	---
9	7.8	7.8	7.8	7.8	7.7	7.7	7.8	7.7	7.7	---	---	---
10	7.9	7.8	7.9	7.8	7.8	7.8	7.8	7.8	7.8	---	---	---
11	8.0	7.9	7.9	7.9	7.8	7.8	7.8	7.8	7.8	---	---	---
12	8.0	7.9	7.9	7.9	7.9	7.9	7.8	7.8	7.8	---	---	---
13	8.0	7.9	7.9	7.9	7.8	7.9	7.9	7.8	7.8	7.5	7.3	7.4
14	8.0	7.9	8.0	7.8	7.8	7.8	7.9	7.8	7.9	7.5	7.5	7.5
15	---	---	---	7.8	7.8	7.8	7.9	7.8	7.8	7.5	7.5	7.5
16	---	---	---	7.8	7.8	7.8	---	---	---	7.5	7.5	7.5
17	---	---	---	7.9	7.8	7.8	---	---	---	7.5	7.5	7.5
18	---	---	---	7.9	7.8	7.9	---	---	---	7.5	7.5	7.5
19	---	---	---	8.0	7.9	7.9	---	---	---	7.5	7.5	7.5
20	---	---	---	8.0	7.9	7.9	---	---	---	7.5	7.5	7.5
21	---	---	---	8.1	7.9	8.0	---	---	---	---	---	---
22	---	---	---	8.0	7.9	8.0	---	---	---	---	---	---
23	---	---	---	8.0	8.0	8.0	---	---	---	---	---	---
24	---	---	---	8.0	8.0	8.0	---	---	---	---	---	---
25	---	---	---	8.0	7.9	8.0	---	---	---	---	---	---
26	---	---	---	8.0	7.9	8.0	---	---	---	---	---	---
27	---	---	---	8.0	7.8	7.9	---	---	---	---	---	---
28	---	---	---	7.8	7.6	7.7	---	---	---	---	---	---
29	---	---	---	7.7	7.7	7.7	---	---	---	---	---	---
30	---	---	---	7.8	7.8	7.8	---	---	---	---	---	---
31	---	---	---	7.9	7.8	7.8	---	---	---	---	---	---
MONTH	8.0	7.5	7.9	8.3	7.6	7.9	8.0	7.6	7.8	7.5	7.3	7.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.2	8.1	8.1	8.6	8.4	8.5	7.9	7.7	7.7
2	---	---	---	8.2	8.1	8.2	8.6	8.3	8.5	7.9	7.8	7.8
3	---	---	---	8.2	8.1	8.1	8.8	8.3	8.4	7.9	7.8	7.8
4	---	---	---	8.2	8.1	8.1	8.4	8.3	8.3	8.0	7.8	7.9
5	---	---	---	8.2	8.1	8.1	8.6	8.3	8.4	8.4	7.9	8.1
6	---	---	---	8.2	8.1	8.1	8.6	8.3	8.5	8.6	8.1	8.2
7	---	---	---	8.1	8.0	8.0	8.6	8.4	8.5	8.4	8.0	8.2
8	---	---	---	8.0	7.9	8.0	8.7	8.2	8.5	8.5	8.0	8.2
9	7.7	7.6	7.7	8.1	8.0	8.0	8.1	7.9	7.9	8.4	8.0	8.2
10	7.7	7.7	7.7	8.1	8.0	8.1	8.0	7.8	7.9	8.3	8.0	8.2
11	7.8	7.7	7.7	8.1	7.9	8.0	8.2	7.9	8.0	8.2	7.9	8.0
12	7.8	7.8	7.8	8.0	7.9	8.0	8.3	8.0	8.1	8.0	7.9	8.0
13	7.8	7.7	7.8	7.9	---	---	8.2	8.0	8.1	8.0	7.7	7.9
14	7.8	7.7	7.8	7.9	7.8	7.9	8.1	7.9	8.0	7.6	7.3	7.4
15	7.9	7.8	7.8	8.2	7.7	7.9	8.1	7.9	8.0	7.3	7.0	7.1
16	8.0	7.8	7.8	8.6	7.8	8.1	8.3	8.0	8.1	7.1	7.1	7.1
17	8.0	7.9	7.9	8.4	7.7	8.0	8.3	8.1	8.2	7.3	7.1	7.2
18	7.9	7.9	7.9	8.3	7.8	8.0	8.4	8.0	8.2	7.3	7.2	7.2
19	8.0	7.9	7.9	8.3	7.9	8.0	8.4	8.0	8.2	---	---	---
20	7.9	7.8	7.9	8.1	7.9	8.0	8.3	8.1	8.2	---	---	---
21	7.9	7.8	7.8	8.3	8.1	8.2	8.2	8.0	8.1	---	---	---
22	7.9	7.8	7.8	8.3	8.2	8.3	8.5	7.8	8.0	---	---	---
23	7.8	7.7	7.7	8.3	8.1	8.2	8.1	7.8	7.9	---	---	---
24	7.7	7.7	7.7	8.3	8.2	8.3	8.1	7.9	8.0	---	---	---
25	7.8	7.7	7.7	8.3	8.2	8.2	8.2	8.0	8.1	---	---	---
26	8.0	7.8	7.9	---	---	---	8.1	8.0	8.1	---	---	---
27	8.0	7.9	8.0	---	---	---	8.1	8.0	8.0	8.1	8.0	8.0
28	8.1	8.0	8.0	8.4	8.2	8.3	8.2	8.0	8.1	8.0	7.7	7.9
29	8.2	8.0	8.1	8.4	8.2	8.3	8.0	8.0	8.0	8.1	7.7	7.8
30	8.3	8.1	8.2	8.6	8.3	8.4	8.0	7.9	8.0	8.0	7.8	7.9
31	---	---	---	8.6	8.3	8.4	7.9	7.7	7.7	---	---	---
MONTH	8.3	7.6	7.9	8.6	7.7	8.1	8.8	7.7	8.2	8.6	7.0	7.8

07263750 ARKANSAS RIVER AT LOCK AND DAM 3, NEAR SWAN LAKE, AR

LOCATION.--Lat 34°09'36", long 91°40'42", in sec.20, T.6 S., R.6 W., Jefferson County, Hydrologic Unit 08020401, at Dam No. 3, 1.5 mi (2.4 km) southeast of Swan Lake.

DRAINAGE AREA.--158,937 mi² (411,647 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
10...	9827	9827	497	8.0	19.0	40	8.5	90	1.6	500	--	--
NOV												
07...	9827	9827	410	--	18.0	40	9.0	93	1.7	480	--	--
DEC												
06...	9827	9827	356	7.2	6.0	50	10.3	82	1.5	780	--	--
JAN												
09...	9827	9827	298	7.8	4.0	60	12.0	92	2.4	150	75	21
FEB												
07...	9827	9827	251	7.5	1.0	50	13.2	93	3.7	110	--	--
MAR												
06...	9827	9827	514	7.9	5.0	40	14.1	110	4.3	200	--	--
APR												
03...	9827	9827	482	7.7	15.0	40	10.4	102	2.3	1800	69	16
11...	9827	9827	--	--	--	--	--	--	--	--	--	--
MAY												
01...	9827	9827	413	7.8	17.0	30	10.0	103	2.3	110	--	--
30...	9827	9827	443	8.0	25.0	40	8.6	102	2.4	650	--	--
JUN												
26...	9827	9827	797	7.8	27.0	20	8.7	107	2.1	320	--	--
JUL												
17...	9827	9827	631	8.0	28.0	30	9.2	116	3.2	<10	250	27
AUG												
28...	9827	9827	686	8.4	28.0	15	--	106	--	660	--	--
SEP												
25...	9827	9827	327	7.4	24.0	90	5.5	65	1.5	45	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
10...	--	53	--	74	26	81	--	31	.52	<.05	.52
NOV											
07...	--	--	--	--	24	64	220	--	.44	<.05	.46
DEC											
06...	--	--	--	--	25	42	218	29	.49	<.05	.50
JAN											
09...	5.1	26	3.1	69	21	36	193	15	.39	<.05	.40
FEB											
07...	--	--	--	--	16	30	154	14	.44	.01	.45
MAR											
06...	--	--	--	--	31	93	301	34	.38	.01	.40
APR											
03...	6.0	55	3.7	62	35	83	283	47	.45	.01	.46
11...	--	--	--	--	15	--	--	--	.05	.03	.08
MAY											
01...	--	--	--	--	31	47	248	23	.61	.01	.62
30...	--	--	--	--	35	63	278	60	.72	.02	.74
JUN											
26...	--	--	--	--	39	170	462	50	.68	.02	.70
JUL											
17...	42	19	4.3	91	42	160	370	21	.40	.02	.42
AUG											
28...	--	--	--	--	44	140	399	--	.02	<.01	.02
SEP											
25...	--	--	--	--	23	51	200	28	.16	.12	.28

07263750 ARKANSAS RIVER AT LOCK AND DAM 3, NEAR SWAN LAKE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
10...	.06	.84	.90	1.4	6.3	.15	<10	6	10	1900	20
NOV											
07...	.16	.94	1.1	1.6	6.9	.15	--	--	--	--	--
DEC											
06...	.13	.87	1.0	1.5	6.6	.18	--	--	--	--	--
JAN											
09...	.09	.41	.50	.90	4.0	.12	<10	<5	<20	970	40
FEB											
07...	.09	1.0	1.1	1.5	6.9	.12	--	--	--	--	--
MAR											
06...	.07	.73	.80	1.2	5.3	.13	--	--	--	--	--
APR											
03...	.12	.38	.50	.96	4.2	.15	<10	10	<20	2400	<10
11...	.15	--	--	--	--	.11	--	--	--	--	--
MAY											
01...	.06	.54	.60	1.2	5.4	.08	--	--	--	--	--
30...	.08	--	--	--	--	.26	--	--	--	--	--
JUN											
26...	.09	--	<.10	--	--	.14	--	--	--	--	--
JUL											
17...	.10	.00	.10	.52	2.3	.14	<10	<5	<20	1900	30
AUG											
28...	.08	.82	.90	.92	4.1	.16	--	--	--	--	--
SEP											
25...	.06	.74	.80	1.1	4.8	.19	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
10...	140	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
09...	96	--	10	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	130	--	20	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	--	--	--	.00	--	.00	.00	.00	.00	.00	0
JUL											
17...	1100	<1.0	10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
28...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP											
25...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0

07264000 BAYOU METO NEAR LONOKE, AR

LOCATION.--Lat 34°44'10", long 91°54'58", in SW¼ sec.6, T.1 N., R.8 W., Lonoke County, Hydrologic Unit 08020402, near left bank on downstream side of bridge on State Highway 31, 3.0 mi (4.8 km) upstream from Brushy Slough, 3.5 mi (5.6 km) South of Lonoke, and at mile 106.4 (171.2 km).

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year. Gage-height record and results of discharge measurements at site 4.8 mi (7.7 km) upstream since June 1948 are contained in reports of Corps of Engineers, Vicksburg District; published as "Big Bayou Meto near Lonoke."

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 199.11 ft (60.689 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 10, 1955, water-stage recorder at site 4.8 mi (7.7 km) upstream at datum 6.97 ft (2.124 m) higher. Feb. 10 to June 29, 1955, nonrecording gage at present site and datum.

REMARKS.--Records good. Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water.

AVERAGE DISCHARGE.--24 years, 286 ft^3/s (8.10 m^3/s), 207,200 acre-ft/yr (255 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft^3/s (133 m^3/s) May 18, 1968, gage height, 26.55 ft (8.092 m); no flow at times in 1955, 1956, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,680 ft^3/s (47.6 m^3/s) Jan. 29, gage height, 20.67 ft (6.300 m); maximum gage height, 20.87 ft (6.361 m) May 12; minimum discharge, 2.3 ft^3/s (0.065 m^3/s) Aug. 5, 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425	11	833	95	1310	225	163	101	104	81	6.0	633
2	529	18	917	115	1080	260	137	97	116	56	5.4	588
3	552	69	993	114	849	432	121	157	103	37	4.0	462
4	469	223	1060	107	653	531	108	242	91	22	2.6	305
5	312	379	1070	98	537	589	100	382	85	14	2.5	193
6	178	446	1010	96	487	605	93	483	100	13	4.9	144
7	103	423	915	95	427	588	91	652	191	11	4.1	129
8	75	337	831	175	353	577	87	923	404	12	2.5	125
9	55	245	757	224	287	579	84	1160	560	9.6	2.6	103
10	42	168	649	289	231	595	78	1340	621	8.0	4.5	81
11	35	116	518	326	192	579	67	1500	629	6.5	6.7	67
12	30	102	401	293	181	507	50	1570	529	6.9	5.1	65
13	27	95	321	231	366	414	53	1500	340	6.9	4.8	214
14	26	79	248	198	536	496	61	1340	195	6.9	6.4	520
15	19	67	310	192	626	616	60	1140	116	7.1	6.6	677
16	14	151	368	237	668	671	59	926	73	8.3	5.7	815
17	14	273	383	452	661	722	61	682	53	11	4.5	953
18	12	339	358	627	602	710	95	460	53	10	3.7	1040
19	11	426	336	664	506	633	222	298	50	8.3	5.4	1040
20	11	429	317	669	423	484	369	211	40	6.8	6.7	956
21	10	420	285	675	386	355	401	152	40	5.9	7.3	788
22	10	489	250	681	367	275	324	117	90	5.6	8.5	571
23	10	590	223	694	356	238	287	105	374	4.9	7.6	372
24	10	704	175	800	331	235	311	108	564	4.5	7.0	250
25	11	807	144	1120	314	237	325	121	599	5.0	4.8	178
26	10	851	125	1330	288	277	328	130	543	5.8	3.9	132
27	8.8	803	112	1470	243	309	279	131	409	5.7	5.7	105
28	7.0	659	100	1580	226	291	209	116	273	6.5	5.5	88
29	5.8	612	89	1670	---	261	152	102	176	6.6	36	75
30	5.2	718	83	1640	---	219	116	93	117	7.1	347	68
31	5.1	---	78	1510	---	184	---	101	---	6.4	592	---
TOTAL	3031.9	11051	14309	18467	13488	13714	4891	16440	7638	406.3	1120.0	11737
MEAN	97.8	368	462	596	482	442	163	530	255	13.1	36.1	391
MAX	552	851	1070	1670	1310	722	401	1570	629	81	592	1040
MIN	5.1	11	78	95	181	184	50	93	40	4.5	2.5	65
AC-FT	6010	21920	28380	36630	26750	27200	9700	32610	15150	806	2220	23280

CAL YR 1977 TOTAL 86251.5 MEAN 236 MAX 1370 MIN 2.7 AC-FT 171100
WTR YR 1978 TOTAL 116293.2 MEAN 319 MAX 1670 MIN 2.5 AC-FT 230700

07264000 BAYOU METO NEAR LONOKE, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1972, April 1974 to current year.

REMARKS.--Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
10...	9827	9827	--	313	7.7	16.0	50	5.3	53	3.0	3400	160
17...	1028	--	16	--	--	13.0	--	--	--	--	--	--
NOV												
08...	9827	9827	--	254	--	17.0	50	4.4	45	2.4	1200	300
30...	1028	--	685	--	--	8.0	--	--	--	--	--	--
DEC												
06...	9827	9827	--	82	--	8.0	60	8.2	69	1.5	3900	220
JAN												
10...	9827	9827	--	246	7.2	2.0	150	10.0	72	3.0	3900	770
27...	1028	--	1470	--	--	1.0	--	--	--	--	--	--
FEB												
08...	9827	9827	--	127	7.0	1.0	55	11.1	78	2.7	--	87
24...	1028	--	318	--	--	5.0	--	--	--	--	--	--
MAR												
07...	9827	9827	--	120	7.0	6.0	60	11.0	88	3.4	7500	20
APR												
04...	9827	9827	--	236	7.4	19.0	40	5.9	63	2.8	380	40
04...	1028	--	112	--	--	20.0	--	--	--	--	--	--
MAY												
02...	9827	9827	--	282	7.0	16.0	60	4.9	49	3.3	4000	300
19...	1028	--	273	--	--	21.0	--	--	--	--	--	--
31...	9827	9827	--	296	7.3	25.0	120	3.0	36	2.4	400	850
JUN												
27...	9827	9827	--	164	7.1	28.0	100	4.0	51	3.5	900	130
30...	1028	--	129	--	--	30.0	--	--	--	--	--	--
JUL												
18...	9827	9827	--	321	7.7	26.0	40	3.0	37	2.3	--	--
AUG												
09...	1028	--	2.3	--	--	29.0	--	--	--	--	--	--
29...	9827	9827	--	329	7.6	24.0	50	--	44	--	--	--
SEP												
26...	9827	9827	--	236	7.1	20.0	60	4.2	46	2.5	2200	570

ARKANSAS RIVER BASIN

07264000 BAYOU METO NEAR LONOKE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
10...	--	--	7.0	30	--	61	5.0	48	--	33	.42	<.05
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
08...	--	--	--	--	--	--	18	43	157	--	.35	<.05
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
06...	--	--	--	--	--	--	9.0	13	90	14	.18	<.05
JAN												
10...	32	3.0	3.2	27	3.4	29	16	41	250	104	.44	.07
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08...	--	--	--	--	--	--	9.0	18	105	14	.26	.01
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	--	--	--	--	--	--	8.0	16	96	26	.25	.01
APR												
04...	37	6.0	42	24	2.7	45	11	36	157	42	.45	.02
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	--	--	--	--	--	--	30	36	190	50	.68	.02
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	29	37	241	75	.49	.06
JUN												
27...	--	--	--	--	--	--	8.0	17	135	49	.50	.08
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	--	--	--	--	--	76	14	45	213	58	.58	.03
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	17	21	240	--	.34	.02
SEP												
26...	--	--	--	--	--	--	15	31	160	29	.37	.01

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
OCT												
10...	.43	.08	1.3	1.4	1.8	8.1	.35	<5	<10	8	20	2700
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
08...	.38	.27	1.2	1.5	1.9	8.3	.38	--	<10	--	<10	1700
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
06...	.19	.08	.92	1.0	1.2	5.3	.18	<3	<10	--	<20	1300
JAN												
10...	.51	.39	1.3	1.7	2.2	9.8	.39	<5	<10	20	<20	5800
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08...	.27	.18	.82	1.0	1.3	5.6	.22	--	<10	--	20	1600
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
07...	.26	.18	.92	1.1	1.4	6.0	.20	--	<10	--	<20	1800
APR												
04...	.47	.14	.56	.70	1.2	5.2	.40	<5	<10	<5	20	2500
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	.70	.12	1.1	1.2	1.9	8.4	.39	--	<10	--	20	2400
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.55	.16	--	--	--	--	.53	--	<10	--	30	4700
JUN												
27...	.58	.21	1.1	1.3	1.9	8.3	.33	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	.61	.10	.50	.60	1.2	5.4	.24	--	--	--	--	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.36	.11	1.3	1.4	1.8	7.8	.53	--	<10	--	<20	3300
SEP												
26...	.38	.07	1.1	1.2	1.6	7.0	.42	--	<10	--	<20	460

07264000 BAYOU METO NEAR LONOKE, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT											
10...	20	310	<10	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	200	30	.00	.00	.00	.00	.00	.00	.00	0
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	75	10	--	--	--	--	--	--	--	--
JAN											
10...	40	260	30	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	--	73	30	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	100	30	--	--	--	--	--	--	--	--
APR											
04...	20	330	50	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	410	10	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
31...	--	630	20	--	--	--	--	--	--	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
29...	--	780	<10	--	--	--	--	--	--	--	--
SEP											
26...	--	13	<10	--	--	--	--	--	--	--	--

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR

LOCATION.--Lat 34°51'32", long 91°58'48", in NW¼NW¼ sec.28, T.3 N., R.9 W., Lonoke County, Hydrologic Unit 08020402, at bridge on State Highway 89, 8.4 mi (13.5 km) south of Cabot.

DRAINAGE AREA.--84.9 mi² (220 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
17...	9827	9827	116	6.9	13.0	90	4.1	39	2.4	43	27
NOV											
09...	9827	9827	103	6.4	17.0	80	3.5	36	2.0	100	--
DEC											
13...	9827	9827	77	--	5.0	50	10.1	79	2.0	13	--
JAN											
31...	9827	9827	45	6.8	.5	55	10.2	71	2.9	35	13
FEB											
14...	9827	9827	52	6.1	1.0	75	11.7	82	5.4	250	--
MAR											
14...	9827	9827	91	6.1	9.0	120	7.1	61	5.4	--	--
APR											
11...	9827	9827	246	7.1	12.0	50	4.1	38	3.7	520	70
MAY											
09...	9827	9827	--	6.0	18.0	120	4.0	42	2.8	150	--
JUN											
29...	9827	9827	145	6.9	27.0	50	3.2	40	>3.2	180	--
JUL											
11...	9827	9827	203	7.2	24.0	100	2.0	24	1.5	--	55
AUG											
08...	9827	9827	240	7.3	23.0	40	2.4	28	>2.4	130	--
SEP											
06...	9827	9827	--	7.1	23.0	80	2.1	24	--	80	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
17...	3.0	3.0	12	4.2	24	7.0	13	119	31	.21
NOV										
09...	--	--	--	--	--	10	11	--	13	.10
DEC										
13...	--	--	--	--	--	9.0	11	78	8	.24
JAN										
31...	3.0	1.0	3.8	1.7	9	6.0	6.0	45	9	.25
FEB										
14...	--	--	--	--	--	7.0	4.5	87	--	.33
MAR										
14...	--	--	--	--	--	6.0	5.0	81	44	.11
APR										
11...	14	7.0	19	2.6	75	5.0	24	150	22	.18
MAY										
09...	--	--	--	--	--	6.0	5.5	70	16	.10
JUN										
29...	--	--	--	--	--	17	8.0	113	69	.19
JUL										
11...	10	4.0	16	4.0	75	1.0	17	155	42	.23
AUG										
08...	--	--	--	--	--	5.0	22	181	27	.17
SEP										
06...	--	--	--	--	--	--	13	108	10	.20

ARKANSAS RIVER BASIN

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
17...	<.05	.22	.08	.73	<10	<5	<10	--	<10	650
NOV										
09...	<.05	.12	.21	.43	--	--	--	--	--	--
DEC										
13...	<.05	.25	.15	.18	--	--	30	1000	--	750
JAN										
31...	.01	.26	.09	.32	<10	<5	<20	860	<10	180
FEB										
14...	.01	.34	.32	.13	<10	--	<20	1800	--	400
MAR										
14...	.02	.13	.24	.17	<10	--	<20	2300	--	120
APR										
11...	.04	.22	.25	.41	<10	6	30	1900	<10	1700
MAY										
09...	.01	.11	.41	.20	<10	--	50	1200	--	160
JUN										
29...	.04	.23	.32	.01	<10	--	--	3300	--	1800
JUL										
11...	.04	.27	1.0	.70	<10	<5	30	3200	30	4200
AUG										
08...	.08	.25	2.2	.82	<10	--	<20	1500	--	1800
SEP										
06...	.17	.37	1.8	1.3	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
17...	--	10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	--	60	--	--	--	--	--	--	--	--
JAN										
31...	--	<10	--	--	--	--	--	--	--	--
FEB										
14...	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR										
14...	--	<10	--	--	--	--	--	--	--	--
APR										
11...	--	20	--	--	--	--	--	--	--	--
MAY										
09...	--	10	--	--	--	--	--	--	--	--
JUN										
29...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL										
11...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
08...	--	40	.00	.00	.00	.00	.00	.00	.00	0
SEP										
06...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07265099 BAYOU METO NEAR BAYOU METO, AR

LOCATION.--Lat 34°12'07", long 91°31'50", in SE¼NE¼ sec.3, T.6 S., R.5 W., at Arkansas-Jefferson County line, Hydrologic Unit 08020402, at bridge on State Highway 11, 1.6 mi (2.6 km) southwest of Bayou Meto.

DRAINAGE AREA.--794 mi² (2,056 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
10...	9827	9827	195	7.5	19.0	60	5.2	55	1.4	--	--
NOV											
07...	9827	9827	210	--	17.0	40	2.6	27	1.2	20	--
DEC											
06...	9827	9827	114	6.5	9.0	140	6.8	59	1.8	57	--
JAN											
09...	9827	9827	142	7.3	4.0	130	9.5	73	1.7	210	29
FEB											
07...	9827	9827	69	6.8	1.0	90	10.7	75	2.0	16	--
MAR											
06...	9827	9827	167	7.1	6.0	110	10.8	86	2.3	200	--
APR											
03...	9827	9827	130	7.4	18.0	40	6.7	71	1.9	18	25
MAY											
01...	9827	9827	194	7.1	20.0	80	6.2	67	2.5	620	--
30...	9827	9827	114	7.1	25.0	150	4.1	49	2.9	150	--
JUN											
26...	9827	9827	166	7.0	29.0	100	4.3	55	2.6	63	--
JUL											
17...	9827	9827	300	7.7	30.0	30	3.2	42	>3.2	--	100
AUG											
28...	9827	9827	510	8.3	28.0	15	--	78	--	30	--
SEP											
25...	9827	9827	154	7.2	22.0	60	4.4	50	1.3	30	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
10...	--	5.0	14	--	44	4.0	22	--	33	.21
NOV										
07...	--	--	--	--	--	7.0	23	136	--	.15
DEC										
06...	--	--	--	--	--	10	12	140	48	.12
JAN										
09...	4.0	3.3	9.7	3.9	32	8.0	16	141	27	.13
FEB										
07...	--	--	--	--	--	6.0	7.5	83	14	.29
MAR										
06...	--	--	--	--	--	7.0	12	126	27	.18
APR										
03...	3.0	2.8	9.4	3.9	41	9.0	15	136	33	.16
MAY										
01...	--	--	--	--	--	8.0	23	148	60	.40
30...	--	--	--	--	--	7.0	9.5	133	57	.23
JUN										
26...	--	--	--	--	--	8.0	14	175	87	.50
JUL										
17...	26	8.0	29	3.8	110	5.0	22	187	50	.28
AUG										
28...	--	--	--	--	--	7.0	39	314	--	.02
SEP										
25...	--	--	--	--	--	7.0	14	113	26	.16

ARKANSAS RIVER BASIN

07265099 BAYOU METO NEAR BAYOU METO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
10...	<.05	.22	.12	.22	<10	6	<10	2400	20	190
NOV										
07...	<.05	.17	.25	.17	<10	--	<10	1700	--	470
DEC										
06...	<.05	.16	.15	.30	<10	--	<20	3400	--	93
JAN										
09...	<.05	.15	.11	.20	<10	10	<20	2900	40	120
FEB										
07...	.02	.31	.09	.17	<10	--	<20	2300	--	27
MAR										
06...	.03	.21	.18	.19	<10	--	20	2900	--	69
APR										
03...	.02	.18	.12	.23	<10	20	<20	3400	40	170
MAY										
01...	.03	.43	.14	.11	<10	--	20	2900	--	240
30...	.05	.28	.20	.50	<10	--	<20	4000	--	400
JUN										
26...	.01	.51	.23	.29	--	--	--	--	--	--
JUL										
17...	.15	.43	.05	.19	<10	<5	20	2300	40	640
AUG										
28...	.01	.03	.03	.26	<10	--	<20	740	--	550
SEP										
25...	.01	.17	.06	.29	<10	--	<20	2000	--	160

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
10...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	20	--	--	--	--	--	--	--	--
DEC										
06...	--	20	--	--	--	--	--	--	--	--
JAN										
09...	--	20	--	--	--	--	--	--	--	--
FEB										
07...	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR										
06...	--	20	--	--	--	--	--	--	--	--
APR										
03...	--	30	--	--	--	--	--	--	--	--
MAY										
01...	--	<10	--	--	--	--	--	--	--	--
30...	--	20	--	--	--	--	--	--	--	--
JUN										
26...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL										
17...	<1.0	10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
28...	--	<10	.00	.00	.00	.00	.00	.00	.09	0
SEP										
25...	--	20	.00	.00	.00	.00	.00	.00	.00	0

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, AR

LOCATION.--Lat 35°58'18", long 91°18'59", in sec.20, T.8 S., R.3 W., Arkansas County, Hydrologic Unit 08020401, 2.0 mi (3.2 km) downstream from Arkansas Post Canal, and 9.8 mi (15.8 km) southeast of Gillett.

DRAINAGE AREA.--160,475 mi² (415,630 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
10...	9827	9827	477	7.9	19.0	45	7.8	83	1.3	--	--
NOV											
07...	9827	9827	429	--	18.0	30	8.2	86	.8	300	--
DEC											
06...	9827	9827	303	7.0	8.0	80	9.7	82	1.1	340	--
JAN											
09...	9827	9827	319	7.8	4.0	80	11.1	85	1.6	36	77
FEB											
07...	9827	9827	193	7.4	1.0	55	11.5	81	2.0	24	--
MAR											
06...	9827	9827	490	7.9	5.0	40	13.9	109	3.8	160	--
APR											
03...	9827	9827	438	7.7	15.0	60	9.8	96	2.2	2200	63
MAY											
01...	9827	9827	392	7.2	17.0	40	8.9	92	1.6	56	--
30...	9827	9827	413	7.8	25.0	55	8.1	96	1.4	450	--
JUN											
26...	9827	9827	776	7.8	27.0	30	9.2	114	3.1	180	--
JUL											
17...	9827	9827	704	8.1	28.0	20	7.0	89	1.0	200	140
AUG											
28...	9827	9827	694	8.3	28.0	25	--	95	--	<7	--
SEP											
25...	9827	9827	313	7.5	22.0	60	5.9	67	1.6	19	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
10...	--	7.0	57	--	75	24	82	--	29	.46
NOV										
07...	--	--	--	--	--	25	68	240	--	.53
DEC										
06...	--	--	--	--	--	22	36	208	32	.42
JAN										
09...	21	5.3	27	3.3	69	64	38	205	18	.42
FEB										
07...	--	--	--	--	--	14	24	145	29	.40
MAR										
06...	--	--	--	--	--	30	89	285	28	.29
APR										
03...	14	5.5	46	3.7	59	35	75	264	45	.40
MAY										
01...	--	--	--	--	--	33	47	241	29	.62
30...	--	--	--	--	--	33	59	261	56	.68
JUN										
26...	--	--	--	--	--	40	170	451	37	.57
JUL										
17...	40	9.0	80	4.0	94	44	150	378	23	.30
AUG										
28...	--	--	--	--	--	44	140	392	--	.03
SEP										
25...	--	--	--	--	--	20	46	198	27	.24

ARKANSAS RIVER BASIN

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
10...	<.05	.47	.27	.14	<10	<5	<10	2000	10	160
NOV										
07...	<.05	.55	.19	.14	--	--	--	--	--	--
DEC										
06...	<.05	.45	.14	.18	--	--	--	--	--	--
JAN										
09...	<.05	.43	.12	.12	<10	<5	<20	1200	20	92
FEB										
07...	.02	.42	.15	.17	--	--	--	--	--	--
MAR										
06...	.01	.30	.06	.11	--	--	--	--	--	--
APR										
03...	.02	.42	.51	.15	<10	8	<20	2500	30	180
MAY										
01...	.01	.63	.07	.11	--	--	--	--	--	--
30...	.03	.71	.08	.28	--	--	--	--	--	--
JUN										
26...	.01	.58	.10	.12	--	--	--	--	--	--
JUL										
17...	.02	.32	.10	.15	<10	<5	<20	780	30	180
AUG										
28...	<.01	.03	.09	.12	--	--	--	--	--	--
SEP										
25...	.06	.30	.03	.20	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
10...	--	10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	<10	--	--	--	--	--	--	--	--
FEB										
07...	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	50	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
26...	--	--	.00	--	.00	.00	.00	.00	.00	0
JUL										
17...	<1.0	<10	.00	--	.00	.00	.00	.00	.00	0
AUG										
28...	--	--	.00	.00	.00	.00	.00	.00	.02	0
SEP										
25...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR

LOCATION.--Lat 33°33'27", long 91°14'15", sec.18, T.13 S., R.1 W.,Chicot County, Hydrologic Unit 08050002, on right bank 3.0 mi (4.8 km) southwest of Arkansas City, and at mile 554.1 (891.5 km).

DRAINAGE AREA.--1,130,600 mi² (2,928,300 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. Gage-height records since 1879 are contained in reports of Mississippi River Commission, and National Weather Service. Intermittent records of discharge since 1884 and daily discharge since Jan. 1, 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 96.66 ft (29.462 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 3, 1930, at site 4.0 mi (6.4 km) upstream, Sept. 3, 1930, to Feb. 29, 1944, at site 1.9 mi (3.1 km) upstream, and Mar. 1, 1944, to Oct. 31, 1948, at site 1.2 mi (1.9 km) upstream, all at present datum.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years, 547,200 ft³/s (15,500 m³/s), 396,400,000 acre-ft/yr (489 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,159,000 ft³/s (61,100 m³/s) Feb. 16, 1937; maximum gage height, 53.86 ft (16.417 m) Feb. 17, 1937; minimum discharge, 88,200 ft³/s (2,500 m³/s) Oct. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of 1927 was the greatest since at least 1879. A stage of 60.4 ft (18.41 m) occurred on Apr. 21, 1927, prior to levee breaks, at site used prior to 1930, and a discharge of about 2,472,000 ft³/s (70,000 m³/s) occurred in early May.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 1,000,005 ft³/s (28,300 m³/s) Mar. 5, gage height, 27.60 ft (8.412 m); minimum daily, 146,000 ft³/s (4,130 m³/s) Sept. 29.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 949,000 ft³/s (26,900 m³/s) Apr. 17, gage height, 27.78 ft (8.467 m); minimum daily, 171,000 ft³/s (4,840 m³/s) Nov. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424000	489000	395000	562000	538000	942000	753000	560000	344000	450000	329000	199000
2	443000	459000	400000	584000	576000	960000	771000	569000	381000	444000	331000	206000
3	462000	435000	408000	618000	611000	978000	790000	579000	395000	438000	328000	212000
4	472000	412000	411000	649000	641000	992000	806000	599000	434000	432000	320000	197000
5	460000	397000	416000	687000	668000	1000000	817000	619000	452000	438000	312000	190000
6	438000	379000	440000	740000	689000	973000	826000	630000	472000	450000	306000	194000
7	421000	363000	470000	779000	694000	920000	828000	640000	491000	470000	301000	204000
8	389000	350000	511000	809000	680000	883000	827000	637000	509000	493000	301000	199000
9	360000	339000	540000	836000	656000	879000	816000	615000	521000	521000	291000	188000
10	324000	327000	559000	852000	620000	877000	799000	585000	529000	531000	281000	184000
11	301000	314000	551000	871000	570000	891000	771000	562000	524000	530000	271000	179000
12	282000	321000	534000	887000	520000	911000	747000	539000	500000	524000	261000	170000
13	270000	333000	521000	895000	489000	908000	711000	519000	460000	510000	248000	159000
14	288000	344000	511000	878000	473000	900000	674000	501000	415000	491000	249000	160000
15	317000	349000	505000	852000	461000	889000	635000	493000	373000	471000	243000	167000
16	328000	346000	503000	823000	450000	870000	594000	487000	351000	454000	233000	176000
17	332000	336000	504000	784000	441000	850000	559000	477000	326000	441000	226000	189000
18	340000	355000	490000	726000	449000	835000	826000	469000	298000	433000	225000	182000
19	328000	390000	478000	613000	482000	814000	488000	463000	295000	429000	221000	170000
20	320000	425000	487000	598000	526000	797000	479000	462000	296000	422000	226000	157000
21	331000	454000	500000	589000	573000	779000	474000	464000	302000	419000	230000	170000
22	371000	472000	514000	582000	642000	759000	481000	471000	318000	412000	231000	169000
23	419000	483000	537000	579000	732000	733000	507000	485000	331000	390000	239000	169000
24	461000	472000	551000	571000	789000	718000	550000	500000	341000	369000	242000	168000
25	512000	450000	560000	560000	832000	700000	562000	512000	358000	342000	238000	165000
26	560000	431000	554000	541000	860000	697000	553000	509000	389000	323000	229000	160000
27	573000	421000	547000	523000	883000	696000	541000	483000	413000	313000	213000	152000
28	582000	411000	538000	509000	909000	699000	532000	460000	438000	312000	203000	148000
29	573000	402000	526000	504000	928000	706000	540000	437000	449000	314000	197000	146000
30	551000	399000	522000	501000	---	710000	554000	418000	453000	320000	187000	167000
31	518000	---	534000	509000	---	735000	---	399000	---	328000	191000	---
TOTAL	12750000	11858000	15517000	21016000	18382000	26001000	19811000	16143000	12198000	13214000	7905000	5296000
MEAN	411300	395300	500500	677900	633900	838700	660400	520700	406600	426300	255000	176500
MAX	582000	489000	560000	895000	928000	1000000	828000	640000	529000	531000	331000	212000
MIN	270000	314000	395000	501000	441000	696000	474000	399000	295000	312000	187000	146000
AC-FT	25290000	23520000	30780000	41690000	36460000	51570000	39300000	32020000	24190000	26210000	15680000	10500000

CAL YR 1975	TOTAL	268793000	MEAN	736400	MAX	1840000	MIN	266000	AC-FT	533200000		
WTR YR 1976	TOTAL	180091000	MEAN	492100	MAX	1000000	MIN	146000	AC-FT	357200000		

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172000	298000	203000	219000	242000	332000	746000	453000	284000	367000	255000	315000
2	179000	311000	221000	215000	238000	361000	753000	453000	283000	390000	249000	314000
3	189000	321000	214000	217000	226000	418000	775000	454000	280000	409000	246000	308000
4	206000	331000	209000	218000	216000	496000	795000	459000	273000	421000	245000	297000
5	220000	341000	219000	218000	209000	586000	788000	452000	264000	427000	232000	288000
6	229000	343000	227000	218000	199000	644000	782000	443000	250000	427000	217000	280000
7	226000	343000	237000	218000	188000	673000	774000	441000	248000	422000	193000	269000
8	216000	344000	243000	217000	186000	695000	756000	436000	245000	418000	188000	273000
9	219000	345000	239000	216000	187000	728000	758000	434000	243000	416000	186000	274000
10	230000	346000	231000	223000	188000	757000	780000	437000	236000	412000	185000	286000
11	220000	341000	219000	233000	187000	778000	811000	437000	236000	407000	181000	317000
12	197000	320000	211000	238000	180000	795000	849000	437000	235000	392000	179000	339000
13	173000	299000	237000	240000	181000	813000	886000	464000	225000	380000	177000	346000
14	181000	279000	262000	244000	183000	838000	917000	490000	222000	381000	193000	350000
15	189000	264000	290000	246000	187000	840000	940000	509000	217000	334000	219000	352000
16	203000	252000	309000	248000	196000	856000	948000	515000	210000	332000	266000	349000
17	239000	242000	328000	250000	207000	857000	949000	507000	216000	331000	308000	343000
18	276000	234000	349000	252000	219000	864000	943000	481000	222000	331000	343000	337000
19	311000	228000	350000	261000	242000	871000	936000	448000	236000	306000	371000	336000
20	350000	220000	332000	262000	282000	872000	911000	413000	233000	294000	384000	350000
21	379000	218000	311000	258000	313000	868000	867000	365000	226000	303000	394000	393000
22	372000	215000	298000	261000	339000	864000	735000	355000	217000	297000	400000	441000
23	351000	212000	282000	257000	342000	812000	713000	332000	213000	269000	402000	472000
24	310000	214000	270000	261000	344000	800000	622000	313000	224000	274000	404000	484000
25	279000	209000	257000	264000	336000	754000	528000	309000	233000	254000	402000	489000
26	255000	199000	248000	262000	327000	712000	495000	302000	240000	246000	394000	494000
27	240000	189000	240000	271000	321000	666000	472000	294000	245000	246000	375000	496000
28	238000	178000	237000	280000	321000	636000	460000	291000	260000	252000	351000	495000
29	246000	171000	232000	278000	---	651000	460000	287000	270000	277000	327000	479000
30	260000	169000	230000	264000	---	706000	462000	285000	334000	266000	308000	460000
31	280000	---	228000	248000	---	742000	---	284000	---	269000	308000	---
TOTAL	7635000	7996000	7963000	7557000	6786000	22285000	22611000	12580000	7320000	10551000	8882000	11026000
MEAN	246300	266500	256900	243800	242400	718900	753700	405800	244000	340400	286500	367500
MAX	379000	346000	350000	280000	344000	872000	949000	515000	334000	427000	404000	496000
MIN	172000	171000	203000	215000	180000	332000	460000	284000	210000	246000	177000	269000
AC-FT	15140000	15860000	15790000	14990000	13460000	44200000	44850000	24950000	14520000	20930000	17620000	21870000

CAL YR 1976	TOTAL	163560000	MEAN	446900	MAX	1000000	MIN	146000	AC-FT	324400000		
WTR YR 1977	TOTAL	133192000	MEAN	364900	MAX	949000	MIN	171000	AC-FT	264200000		

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued
(National stream-quality accounting network)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
WATER TEMPERATURES: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 692 micromhos June 13, 1977; minimum, 236 micromhos April 14, 1975.
WATER TEMPERATURES: Maximum, 30.0°C on many days during summer months; minimum, 0.0°C Jan 19, 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 508 micromhos June 26; minimum, 232 micromhos Jan. 27.
WATER TEMPERATURES: Maximum, 30.0°C on several days in July; minimum, 0.0°C on several days in January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW (CFS) (00060)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	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)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS (MG/L AS CACO3) (00900)
OCT												
05...	1028	1028	435000	360	7.9	21.0	--	7.5	86	1100	1200	130
NOV												
01...	1028	1028	444000	392	7.8	16.5	--	9.0	95	970	300	160
29...	1028	1028	664000	322	7.6	9.0	--	10.5	94	1400	610	140
DEC												
28...	1028	1028	798000	345	7.7	3.0	--	11.8	90	K530	1300	140
FEB												
22...	1028	1028	461000	333	7.6	1.0	--	--	--	K170	400	140
APR												
19...	1028	1028	968000	380	7.3	15.0	--	--	--	K140	130	150
MAY												
23...	1028	1028	1100000	308	7.8	18.0	120	7.2	78	K220	210	140
JUN												
27...	1028	1028	432000	485	7.9	29.0	60	--	--	K2400	K40	180
AUG												
16...	1028	1028	404000	422	7.9	27.0	85	6.6	84	K2000	K120	160
SEP												
06...	1028	1028	345000	410	8.1	26.0	--	7.3	91	K53	K200	160
19...	1028	1028	319000	430	8.2	27.0	27	6.2	79	260	--	160

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	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)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT												
05...	41	36	10	18	22	.7	3.9	110	0	90	2.2	46
NOV												
01...	37	41	14	16	17	.6	3.4	150	0	120	3.8	55
29...	45	36	11	13	17	.5	3.3	110	0	90	4.4	42
DEC												
28...	50	38	11	11	14	.4	3.0	110	0	90	3.5	41
FEB												
22...	37	36	11	16	20	.6	2.4	120	0	98	4.8	41
APR												
19...	48	42	12	13	15	.5	3.6	130	0	110	10	42
MAY												
23...	48	38	11	11	14	.4	3.0	--	--	92	--	44
JUN												
27...	65	47	14	30	27	1.0	3.6	--	--	110	--	57
AUG												
16...	48	42	13	22	23	.8	3.8	--	--	110	--	57
SEP												
06...	48	42	13	23	24	.8	3.2	--	--	110	--	72
19...	41	43	13	23	23	.8	3.3	--	--	120	--	65

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
OCT												
05...	23	.2	6.8	209	198	.28	245000	1.1	.05	--	--	--
NOV												
01...	16	.2	7.9	228	227	.31	273000	1.6	.02	--	--	--
29...	16	.2	7.2	184	183	.25	330000	1.5	.01	--	--	--
DEC												
28...	21	.2	7.2	202	187	.27	435000	1.7	.14	--	--	--
FEB												
22...	19	.1	7.7	206	193	.28	256000	1.2	.26	.33	.59	.51
APR												
19...	19	.2	6.3	208	202	.28	544000	2.2	.06	.57	.63	.00
MAY												
23...	15	.1	6.1	185	184	.25	549000	1.4	.03	--	--	--
JUN												
27...	40	.2	4.5	271	262	.37	316000	1.2	.04	.71	.75	.22
AUG												
16...	21	.2	6.8	247	232	.34	269000	1.4	.03	.78	.81	.30
SEP												
06...	17	.3	4.4	241	241	.33	224000	.56	.01	.67	.68	.00
19...	12	.2	4.5	254	236	.35	219000	.55	.02	1.3	1.3	.78

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT												
05...	.73	--	--	.26	.12	5	4	1	200	200	0	<10
NOV												
01...	.72	--	--	.22	.10	--	--	--	--	--	--	--
29...	.41	--	--	.22	.22	--	--	--	--	--	--	--
DEC												
28...	1.3	--	--	.26	.06	--	--	--	--	--	--	--
FEB												
22...	.08	1.8	7.9	.17	.05	2	0	2	100	0	100	1
APR												
19...	.63	2.8	13	.22	.04	4	1	3	200	100	100	2
MAY												
23...	.24	--	--	.19	.04	--	--	--	--	--	--	--
JUN												
27...	.53	2.0	8.6	.25	.07	--	--	--	--	--	--	--
AUG												
16...	.51	2.2	9.8	.28	.07	--	--	--	--	--	--	--
SEP												
06...	.68	1.2	5.5	.22	.08	--	--	--	--	--	--	--
19...	.52	1.9	8.2	.15	.07	--	--	--	--	--	--	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT											
05...	<10	0	20	10	10	<50	<49	1	60	50	10
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
28...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	0	1	10	0	10	0	0	0	63	58	5
APR											
19...	0	2	10	10	0	0	0	0	110	96	14
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB) (01050)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT									
05...	5300	20	<100	<100	0	220	220	0	.0
NOV									
01...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
DEC									
28...	--	--	--	--	--	--	--	--	--
FEB									
22...	2800	20	13	13	0	120	110	10	.0
APR									
19...	3700	30	18	16	2	220	200	20	.0
MAY									
23...	--	--	--	--	--	--	--	--	--
JUN									
27...	--	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
06...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--

DATE	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG) (71895)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE) (01146)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG) (01076)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT									
05...	.0	.0	1	1	0	<10	<10	0	60
NOV									
01...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
DEC									
28...	--	--	--	--	--	--	--	--	--
FEB									
22...	.0	.0	0	0	0	1	1	0	40
APR									
19...	.0	.0	0	0	0	0	0	0	50
MAY									
23...	--	--	--	--	--	--	--	--	--
JUN									
27...	--	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
06...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--

DATE	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	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								
05...	60	0	--	4.9	1.8	164	193000	94
NOV								
01...	--	--	5.3	--	--	127	152000	80
29...	--	--	6.0	--	--	154	276000	87
DEC								
28...	--	--	7.8	--	--	276	595000	63
FEB								
22...	20	20	--	5.2	1.1	116	144000	83
APR								
19...	40	10	--	4.3	2.7	169	442000	91
MAY								
23...	--	--	9.7	--	--	261	775000	89
JUN								
27...	--	--	5.7	--	--	156	182000	89
AUG								
16...	--	--	7.4	--	--	244	266000	66
SEP								
06...	--	--	7.2	--	--	141	131000	86
19...	--	--	5.0	--	--	107	92200	59

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--CONTINUED

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

PHYTOPLANKTON

DATE / TIME	NOV 1,77 0900		MAY 23,78 0915		JUN 27,78 1000		AUG 16,78 0900		SEP 19,78 0945	
TOTAL CELLS/ML	7300		1500		7700		2100		15000	
DIVERSITY: DIVISION	1.6		1.0		1.5		1.4		1.5	
.CLASS	1.6		1.0		1.5		1.4		1.5	
..ORDER	1.8		1.6		2.2		1.8		2.1	
...FAMILY	2.1		2.2		2.8		1.9		2.4	
....GENUS	2.5		2.8		3.7		2.3		3.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	490	6	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	500	3
...MICRACTINIACEAE										
....GOLENKINIA	48	1	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	57	4	250	3	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	*	0	29	2	92	1	--	-	140	1
....CLOSTERIOPSIS	--	-	--	-	--	-	14	1	--	-
....DICTYOSPHAERIUM	670	9	--	-	210	3	--	-	1000	7
....KIRCHNERIELLA	71	1	--	-	--	-	--	-	*	0
....OOCYSTIS	--	-	--	-	120	2	83	4	500	3
....SELENASTRUM	--	-	--	-	--	-	14	1	140	1
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	310	4	--	-	430	3
....CRUCIGENIA	95	1	--	-	180	2	--	-	140	1
....SCENEDESMUS	670	9	110	8	1000	13	--	-	860	6
....TETRASTRUM	--	-	--	-	250	3	--	-	250	2
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	140	2	--	-	370	5	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	29	2	--	-	14	1	--	-
...VOLVOCACEAE										
....PANDORINA	--	-	--	-	490	6	220	11	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	--	-	*	0
....CYCLOTELLA	330	5	170	11	700	9	230	11	1000	7
....MELOSIRA	3100#	43	740#	49	1300#	17	740#	36	1500	10
....STEPHANODISCUS	--	-	29	2	310	4	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	*	0	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	*	0	29	2	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	95	1	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	57	4	--	-	--	-	--	-
....SYNEDRA	--	-	57	4	--	-	83	4	*	0
...NAVICULACEAE										
....NAVICULA	--	-	29	2	--	-	--	-	*	0
...NITZSCHIACEAE										
....NITZSCHIA	--	-	57	4	430	6	14	1	--	-
...SURIRELLACEAE										
....SURIRELLA	*	0	29	2	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	580	4
....ANACYSTIS	--	-	57	4	1000	13	--	-	4000#	26
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	1800#	25	--	-	--	-	680#	32	3700#	24
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	*	0	--	-	92	1	--	-	--	-
....PHACUS	*	0	--	-	--	-	--	-	--	-
....TRACHELOMONAS	71	1	29	2	61	1	--	-	*	0

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

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	402	318	285	288	360	318	355	356	490	409	463
2	391	416	320	290	286	370	321	367	371	489	425	451
3	384	449	315	292	284	392	329	371	372	485	440	436
4	383	436	313	295	277	385	338	376	377	470	458	440
5	376	403	305	293	286	387	337	379	380	465	442	432
6	380	384	310	287	292	390	338	387	384	458	397	419
7	378	381	298	298	289	381	344	391	387	463	378	432
8	373	360	313	306	269	388	354	387	392	446	387	427
9	370	354	304	306	256	382	370	391	389	450	412	425
10	369	377	303	303	282	376	374	374	389	462	427	442
11	378	379	295	294	269	368	292	356	394	469	434	430
12	381	357	289	296	284	374	290	342	396	442	440	414
13	382	332	278	291	319	379	293	339	405	413	451	436
14	385	325	275	292	319	374	300	331	407	410	444	432
15	378	329	274	291	323	364	310	319	402	416	426	462
16	380	337	276	276	332	366	318	317	403	430	427	468
17	388	339	274	257	336	358	319	313	389	419	411	454
18	393	353	275	255	347	351	318	310	387	424	409	442
19	392	366	281	245	342	345	318	305	376	438	412	443
20	383	386	296	245	345	339	318	302	381	410	424	---
21	380	394	303	246	355	334	372	299	397	404	418	436
22	391	385	302	246	355	343	368	304	423	414	420	407
23	391	369	311	245	352	336	365	307	445	411	424	417
24	377	358	320	237	355	327	363	310	472	403	438	437
25	389	354	320	248	355	316	363	313	500	407	432	449
26	402	354	322	248	357	307	373	322	508	425	435	424
27	404	354	329	232	354	315	379	331	495	423	433	425
28	405	343	342	242	359	321	382	340	486	417	429	447
29	418	328	339	233	---	318	386	350	489	421	438	441
30	411	322	341	238	---	306	374	361	490	419	458	417
31	403	---	353	242	---	302	---	375	---	414	457	---
MEAN	387	368	306	269	317	353	341	343	415	436	427	436

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	17.0	10.0	5.0	.0	5.0	10.0	15.0	24.0	28.5	28.0	26.0
2	24.0	17.0	10.0	4.5	.0	5.0	10.0	15.0	24.0	29.0	28.5	26.0
3	22.0	16.0	10.0	4.0	.5	4.5	12.0	15.0	24.0	29.0	28.5	26.0
4	21.0	17.0	10.0	4.0	.5	4.0	12.0	15.0	19.5	29.0	28.0	25.5
5	22.0	17.5	10.0	5.0	1.0	---	13.0	15.0	24.5	29.0	28.0	25.0
6	22.0	18.0	7.0	5.0	.0	5.0	13.0	15.5	25.0	29.0	28.0	26.0
7	20.5	18.0	5.0	5.0	.0	5.0	14.0	15.0	24.5	30.0	27.0	26.0
8	21.0	18.0	7.0	6.0	.0	5.0	14.0	16.0	25.0	29.0	27.5	26.0
9	21.0	18.0	7.0	6.0	.0	4.5	16.0	16.0	24.0	30.0	27.0	27.0
10	20.0	16.0	5.0	3.0	.5	5.0	16.0	17.0	24.5	30.0	27.0	27.0
11	20.0	15.0	6.0	3.5	.0	5.0	16.0	18.0	25.0	30.0	28.0	27.0
12	18.0	15.0	6.0	3.0	2.0	6.0	15.0	19.0	25.5	30.0	27.5	28.0
13	17.0	14.5	6.5	3.0	2.0	6.0	16.0	18.0	25.0	30.0	27.5	27.0
14	16.5	14.0	7.0	3.5	2.0	7.0	16.5	18.0	25.0	29.5	27.0	26.0
15	17.0	14.0	6.0	4.0	2.0	6.0	16.0	18.0	25.0	29.5	27.0	26.0
16	17.0	15.0	7.0	3.0	2.0	6.5	15.0	18.0	25.0	29.0	27.0	27.0
17	15.0	15.0	7.0	3.5	2.5	6.5	15.0	18.0	25.5	29.0	27.0	26.5
18	15.0	14.0	7.0	3.0	.5	6.5	15.0	18.0	25.5	28.0	28.0	26.0
19	16.0	14.0	6.5	3.0	3.0	8.0	15.0	18.5	25.0	28.0	28.0	27.0
20	15.5	14.0	6.0	2.5	2.0	8.0	15.0	18.5	25.5	29.0	28.0	26.0
21	16.0	14.0	5.0	2.0	2.0	8.0	16.0	19.0	26.0	28.5	28.0	26.0
22	16.0	13.0	5.0	2.0	.5	8.0	16.0	19.0	26.0	28.5	28.0	26.0
23	17.0	13.0	5.0	.0	2.0	8.0	16.0	20.0	26.0	29.0	28.0	26.0
24	17.0	13.0	8.0	3.5	2.0	8.5	16.5	20.0	26.0	28.5	28.0	25.0
25	17.0	13.0	5.0	3.0	4.0	8.5	16.5	20.0	26.5	29.0	28.0	24.5
26	17.0	12.5	5.0	.0	3.5	8.0	18.0	21.0	28.0	29.0	28.5	25.0
27	16.0	11.0	5.0	.0	4.0	8.5	18.0	22.0	28.0	28.0	29.0	24.5
28	16.5	10.0	5.0	.0	4.5	9.0	18.0	22.5	28.0	28.0	28.0	25.0
29	16.0	10.0	5.0	.5	---	9.5	17.0	23.0	28.0	29.0	28.0	23.5
30	17.5	10.0	6.0	.5	---	9.0	16.0	23.0	28.0	29.5	27.5	24.0
31	17.0	---	5.0	.5	---	9.0	---	23.0	---	29.0	27.0	---
MEAN	18.5	14.5	6.5	3.0	1.5	7.0	15.0	18.5	25.5	29.0	28.0	26.0

07336860 RED RIVER NEAR FOREMAN, AR

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 (17.2 km) south of Foreman.

DRAINAGE AREA.--47,648 mi² (123,408 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
10...	9827	9827	1760	8.3	18.0	0	8.3	87	3.0	7	260
NOV											
07...	9827	9827	1310	7.4	18.0	30	8.3	87	1.6	300	--
DEC											
05...	9827	9827	1300	--	12.0	5	10.3	95	5.2	80	--
JAN											
09...	9827	9827	1820	8.2	4.0	5	12.0	92	--	5	270
FEB											
06...	9827	9827	1820	8.1	2.0	5	12.4	93	3.1	10	--
MAR											
06...	9827	9827	936	7.8	6.0	30	12.0	96	3.4	7	--
APR											
18...	9827	9827	491	7.7	20.0	80	7.7	84	2.1	50	--
MAY											
01...	9827	9827	489	8.1	20.0	70	8.7	95	2.6	<7	--
JUN											
05...	9827	9827	255	7.8	26.0	100	6.3	77	3.0	--	--
26...	9827	9827	1890	8.3	29.0	15	7.9	101	--	<7	--
JUL											
31...	9827	9827	1640	8.3	29.0	20	7.1	91	3.3	<7	340
AUG											
28...	9827	9827	1700	8.5	29.0	10	--	97	4.7	8	--
SEP											
25...	9827	9827	1920	8.3	23.0	5	7.1	82	3.5	43	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
10...	59	27	170	6.2	130	90	350	1040	30	<.05
NOV										
07...	--	--	--	--	--	--	280	--	136	.24
DEC										
05...	--	--	--	--	--	170	240	795	27	<.05
JAN										
09...	52	34	220	6.4	120	230	--	1050	21	.06
FEB										
06...	--	--	--	--	--	90	360	1090	19	.15
MAR										
06...	--	--	--	--	--	100	180	546	--	.21
APR										
18...	11	8.4	45	4.6	77	--	110	327	175	.15
MAY										
01...	--	--	--	--	--	48	59	317	92	.12
JUN										
05...	--	--	--	--	--	85	20	224	243	.20
26...	--	--	--	--	--	86	270	1190	91	.01
JUL										
31...	87	30	210	6.2	140	93	--	1080	45	--
AUG										
28...	--	--	--	--	--	230	340	--	44	.01
SEP										
25...	--	--	--	--	--	280	390	--	49	.01

07336860 RED RIVER NEAR FOREMAN, AR—CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
10...	<.05	<.05	.06	.07	<10	<5	<10	720	--	120
NOV										
07...	<.05	.28	.16	.16	<10	--	<10	4300	--	420
DEC										
05...	<.05	<.05	.02	.09	<10	--	<20	640	--	290
JAN										
09...	<.05	.06	<.05	.06	<10	<5	<20	350	30	120
FEB										
06...	.01	.16	.14	.08	<10	--	20	560	--	410
MAR										
06...	.01	.22	.09	.08	<10	--	20	1800	--	330
APR										
18...	.03	.18	.10	--	<10	<5	20	8300	70	260
MAY										
01...	.01	.13	.04	.13	<10	--	20	3500	--	320
JUN										
05...	.09	.29	.26	.20	<10	--	20	6500	--	190
26...	<.01	.01	.07	.10	<10	--	<20	1400	--	140
JUL										
31...	<.01	<.01	.02	.16	<10	--	20	990	180	180
AUG										
28...	<.01	.01	.06	.13	<10	6	<20	820	--	380
SEP										
25...	<.01	.01	.02	.13	<10	--	<20	1200	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
10...	--	20	.00	--	.00	.00	.00	.00	.00	0
NOV										
07...	--	50	--	--	--	--	--	--	--	--
DEC										
05...	--	30	--	--	--	--	--	--	--	--
JAN										
09...	--	20	--	--	--	--	--	--	--	--
FEB										
06...	--	30	--	--	--	--	--	--	--	--
MAR										
06...	--	50	.00	.00	.00	.00	.00	.00	.00	0
APR										
18...	--	30	--	--	--	--	--	--	--	--
MAY										
01...	--	20	--	--	--	--	--	--	--	--
JUN										
05...	--	30	--	--	--	--	--	--	--	--
26...	--	460	.00	.00	.00	.00	.00	.00	.00	0
JUL										
31...	<1.0	30	.00	.00	.00	.00	.00	.00	.00	0
AUG										
28...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
25...	--	<10	.00	.00	.00	.00	.00	.00	.00	0

07337000 RED RIVER AT INDEX, AR

LOCATION.--Lat 33°33'07", long 94°02'28", in NW¼SW¼ sec.7, T.14 S., R.28 W., Miller County, Hydrologic Unit 11140106, near right bank on downstream side of bridge on U.S. Highway 71 at Index, 2.2 mi (3.5 km) south of Ogden, 20.6 mi (33.1 km) upstream from Little River, and at mile 485.3 (780.8 km).

DRAINAGE AREA.--48,030 mi^2 (124,400 km^2), of which 5,936 mi^2 (15,370 km^2) is probably noncontributing.

PERIOD OF RECORD.--July 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft (75.246 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by Lake Texoma (Texas), 241 mi (388 km) upstream since Oct. 31, 1943, capacity, 5,392,900 acre-ft (6,650 hm^3), by Pat Mayse Lake (Texas) since Sept. 28, 1967, capacity, 352,700 acre-ft (435 hm^3), and by Hugo Lake (Oklahoma) since Jan. 18, 1974, capacity, 966,700 acre-ft (1,190 hm^3).

AVERAGE DISCHARGE.--42 years, 11,780 ft^3/s (334 m^3/s), 8,535,000 acre-ft/yr (10,500 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 297,000 ft^3/s (8,410 m^3/s) Feb. 23, 1938, gage height, 34.25 ft (10.439 m); minimum, 378 ft^3/s (10.7 m^3/s) Nov. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,700 ft^3/s (841 m^3/s) June 12, gage height, 12.77 ft (3.892 m); minimum daily, 1,380 ft^3/s (39.1 m^3/s) Oct. 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3540	4590	1580	1850	3050	7500	18200	3400	2370	8460	2740	3580
2	3900	5280	1570	2040	3020	7330	13700	2770	3350	5700	2410	3220
3	4190	4920	1520	2240	2690	6140	9980	3130	6760	4550	2620	3500
4	3990	3430	1470	2410	2530	6240	9010	5350	8050	4290	2990	4170
5	3900	3050	1500	2340	2750	6970	8030	12000	6810	4140	2740	4670
6	3850	4660	1750	2210	3230	6260	6140	19900	5670	3930	2660	4450
7	3580	5740	1650	2610	2880	6360	5080	20400	6220	4140	2670	3400
8	2850	4990	1500	2730	2480	9200	5010	17700	10000	3950	2320	2580
9	2620	3430	1550	2500	2380	10700	6380	16800	11600	3230	2220	2260
10	2970	2660	1460	2590	2320	9280	6400	14500	19300	2750	2150	2110
11	3030	2380	1420	2440	2290	8910	5190	10500	27700	2460	1920	2530
12	2590	2180	2240	2610	2690	11400	5020	8130	29500	2300	1790	2950
13	2150	2410	2580	2620	3720	13300	4640	8180	28800	2240	1890	2960
14	1930	2770	2120	3130	4170	12200	4440	6760	28100	2430	2070	2930
15	1930	2490	1890	3820	4170	9760	7360	4940	28800	3470	2860	2900
16	1820	2130	1990	4550	7500	6760	9870	3820	27600	3950	3220	2650
17	1690	2140	1830	4940	13000	4830	9670	3130	23800	3900	3050	3060
18	1610	2130	1670	4120	13000	3950	9530	3130	20100	3680	2890	3440
19	1690	1920	1550	3220	10800	3260	7580	2820	17600	3400	2790	3640
20	1650	2000	1550	2830	8200	2670	5440	2570	16900	3250	3350	3770
21	1540	2230	1760	2530	6670	2370	4440	3310	16600	3120	3340	3570
22	1460	1910	1780	2950	6300	2630	3920	3250	16400	2810	3310	3200
23	1410	1840	1660	4190	5990	3540	3230	3310	16200	2730	3740	2630
24	1380	1800	1580	4970	5590	3850	2730	3440	16000	2770	3760	2370
25	1530	1800	1550	5870	5800	10800	2510	2970	14500	2650	3720	2850
26	2360	1680	1550	6440	6110	23800	2410	3250	12400	2440	3380	3260
27	3090	1540	1600	5500	6180	28000	2500	3680	11700	2400	3370	2850
28	3060	1470	1650	4490	6740	26100	3250	4850	11600	2480	3220	2320
29	3090	1490	1800	3930	---	23000	4390	5150	11500	2370	3190	2010
30	3370	1510	1830	3160	---	21800	4300	4520	11100	2530	3190	1760
31	3760	---	1810	2730	---	20800	---	3180	---	2860	3490	---
TOTAL	81530	82570	52960	104560	146250	319710	190350	210840	467030	105380	89060	91590
MEAN	2630	2752	1708	3373	5223	10310	6345	6801	15570	3399	2873	3053
MAX	4190	5740	2580	6440	13000	28000	18200	20400	29500	8460	3760	4670
MIN	1380	1470	1420	1850	2290	2370	2410	2570	2370	2240	1790	1760
AC-FT	161700	163800	105000	207400	290100	634100	377600	418200	926400	209000	176700	181700

CAL YR 1977 TOTAL 3355520 MEAN 9193 MAX 101000 MIN 1380 AC-FT 6656000
WTR YR 1978 TOTAL 1941830 MEAN 5320 MAX 29500 MIN 1380 AC-FT 3852000

07339450 DEQUEEN LAKE NEAR DEQUEEN, AR

LOCATION.--Lat 34°05'53", long 94°22'51", in SW¼NW¼ sec.2, T.8 S., R.32 W., Sevier County, Hydrologic Unit 11140109, at DeQueen Dam on Rolling Fork about 4.2 mi (6.8 km) northwest of DeQueen, and at mile 22.8 (36.7 km).
DRAINAGE AREA.--169 mi² (438 km²).
PERIOD OF RECORD.--August 1977 to current year.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).
REMARKS.--Lake is formed by earthfilled dam with an uncontrolled 200 ft (61.0 m) wide spillway on the left abutment east of the dam. The outlet works consists of a gate controlled 12-ft (3.7-m) diameter reinforced concrete conduit, two 5.8-ft (1.77-m) by 12-ft (3.7-m) hydraulic slide gates, a 36-in (914-mm) diameter pipe for low-flow augmentation, and a 42-in (1,070-mm) diameter pipe for water supply. Storage began Aug. 31, 1977. Lake is used for flood-control, water-supply, water-quality control, fish and wildlife conservation, and recreation. Capacity below 415.0 ft (126.49 m) is 9,350 acre-ft (11.5 hm³), and is inactive storage. Capacity between 415.0 ft (126.49 m), and 437.0 ft (133.20 m) is 25,550 acre-ft (31.5 hm³), and is conservation storage of which 17,900 acre-ft (22.1 hm³) is for water supply, and 7,600 acre-ft (9.37 hm³) is for quality control. Capacity between 437.0 ft (133.20 m) and 473.5 ft (144.32 m) is 101,300 acre-ft (125 hm³) and is for flood control. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest	504.4 (153.74 m)	302,900 (373 hm³)
Top of flood-control pool	473.5 (144.32 m)	136,200 (168 hm³)
Top of conservation pool	437.0 (133.20 m)	34,900 (43.0 hm³)
Top of inactive pool	415.0 (126.49 m)	9,350 (11.5 hm³)
Bottom of lowest outlet	400.2 (121.98 m)	2,540 (3.13 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR AUGUST TO SEPTEMBER 1977.--Maximum contents, 58.8 acre-ft (72,500 m³) Sept. 19, elevation, 374.80 ft (114.239 m); minimum, 0.5 acre-ft (616 m³) Aug. 31, Sept. 20-30, elevation, 367.50 ft (112.014 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 43,210 acre-ft (53.3 hm³) May 8, elevation, 441.61 ft (134.603 m); minimum, 0.5 acre-ft (616 m³) Oct. 1, elevation, 367.50 ft (112.014 m).

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

367	0	400	2,470	442	43,970
380	204	420	13,380		
390	885	430	24,430		

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											---	.6
2											---	.6
3											---	.6
4											---	.6
5											---	.6
6											---	.8
7											---	.8
8											---	1.0
9											---	1.0
10											---	1.0
11											---	1.0
12											---	1.0
13											---	17.2
14											---	38.4
15											---	39.0
16											---	42.6
17											---	49.2
18											---	56.1
19											---	6.8
20											---	.5
21											---	.5
22											---	.5
23											---	.5
24											---	.5
25											---	.5
26											---	.5
27											---	.5
28											---	.5
29											---	.5
30											---	.5
31											.5	---
MAX											---	56
MIN											---	.50
(†)											367.50	367.50
(‡)											---	0

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

07339450 DEQUEEN LAKE NEAR DEQUEEN, AR--CONTINUED

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.5	27	1060	1980	9080	18480	35240	35770	35580	34340	32190	29360
2	.6	167	1310	1980	9110	19240	35270	35780	35840	34470	32080	29270
3	.7	311	1410	1980	9130	20240	35290	38390	35990	34470	31990	29200
4	.7	363	1480	1990	9260	20940	35310	38780	36090	34490	31850	29100
5	.7	405	1560	1990	9350	21450	35380	38390	36190	34470	31740	29060
6	.7	446	1610	1990	9470	22120	35610	38550	36610	34440	31640	29000
7	.7	472	1640	1990	9520	26050	35770	42720	36260	34400	31540	28920
8	.7	493	1730	1990	9630	28420	35850	42920	35730	34360	31430	28850
9	.7	518	1670	1990	9730	29810	35900	41600	35320	34290	31330	28820
10	.7	638	1670	1990	9810	30810	39720	39870	35260	34220	31230	28730
11	.7	696	1740	1990	9900	31800	42630	37980	35170	34160	31120	28720
12	.7	715	1770	2000	10100	32770	41790	36720	35070	34090	31020	28740
13	.7	749	1800	2050	11900	33560	40250	36190	34970	34030	30930	28720
14	.7	780	1810	2080	12880	34190	39070	35660	34930	33960	30840	28660
15	.7	809	1830	2080	13500	36400	38280	35210	34880	33880	30730	28600
16	.7	825	1880	2390	13930	35320	37420	35000	34850	33810	30650	28520
17	.7	851	1880	3120	14350	35730	37360	34970	34800	33740	30510	28440
18	.7	851	1880	3740	14650	36060	38060	34930	34770	33660	30420	28380
19	.7	851	1890	3980	14910	36300	36920	35000	34740	33600	30580	28310
20	.7	862	1920	4030	15180	36450	35050	35070	34690	33500	30470	28250
21	.7	866	1920	4160	15420	37000	34260	35170	34640	33370	30390	28160
22	.7	879	1920	4260	15690	37290	34470	36840	34590	33250	30300	28090
23	.7	885	1920	4410	15950	37420	35720	37470	34540	33140	30190	28020
24	.8	885	1920	4640	16310	41910	36610	35820	34490	33040	30080	27940
25	.8	885	1920	5880	16680	41680	36490	34900	34440	32930	29990	27870
26	.7	890	1930	7170	17020	40480	35550	34820	34370	32830	29880	27810
27	.7	900	1940	7750	17340	38890	35040	34930	34310	32770	29800	27770
28	.7	905	1940	8070	17840	37140	35090	35210	34240	32660	29700	27730
29	.7	917	1940	8500	---	35780	35090	35340	34170	32550	29640	27670
30	.7	935	1980	8860	---	35310	35340	35500	34090	32430	29560	27610
31	.7	---	1980	9040	---	35190	---	35580	---	32320	29460	---
MAX	.80	935	1980	9040	17840	41910	42630	42920	36610	34490	32190	29360
MIN	.50	27	1060	1980	9080	18480	34260	34820	34090	32320	29460	27610
(†)	367.70	390.50	397.70	414.55	424.52	437.17	437.26	437.40	436.51	435.42	433.57	432.31
(‡)	+.2	+934.3	+1045	+7060	+8800	+17350	+150	+240	-1490	-1770	-2860	-1850

WTR YR 1978 MAX 42920 MIN .50 ‡ +27609.5

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

07339500 ROLLING FORK NEAR DEQUEEN, AR

LOCATION.--Lat 34°02'51", long 94°24'47", in SW¼SW¼ sec.21, T.8 S., R.32 W., Sevier County, Hydrologic Unit 11140109, near center of span on downstream side of bridge on U.S. Highway 70, 4.0 mi (6.4 km) west of DeQueen, 6.0 mi (9.7 km) upstream from Rock Creek, and at mile 17.0 (27.4 km).

DRAINAGE AREA.--182 mi^2 (471 km^2) (revised).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 318.24 ft (97.000 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 16, 1948, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by DeQueen Lake since Aug. 31, 1977 (see station 07339450).

AVERAGE DISCHARGE.--30 years, 288 ft^3/s (8.16 m^3/s) 208,700 acre-ft/yr (257 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,000 ft^3/s (2,010 m^3/s) Dec. 10, 1971, gage height, 24.23 ft (7.385 m), from floodmark; no flow at times in 1948, 1954, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 27, 1947, reached a stage of 25.6 ft (7.80 m), from floodmarks, discharge, 110,000 ft^3/s (3,120 m^3/s), from contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,570 ft^3/s (44.5 m^3/s) May 5, gage height, 8.58 ft (2.615 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Oct. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.5	9.4	6.3	6.9	15	97	119	78	21	40	44
2	6.6	5.9	7.4	6.1	6.9	15	93	208	88	21	40	45
3	5.4	9.1	6.6	6.0	6.7	17	91	599	87	20	39	45
4	4.3	7.6	6.5	6.2	7.2	15	92	1070	88	20	39	46
5	3.4	6.7	6.2	6.4	8.1	13	91	1370	88	20	40	43
6	2.9	6.1	5.6	7.0	8.5	14	86	965	90	20	40	24
7	2.5	6.1	5.4	7.7	8.6	102	78	1000	188	20	40	32
8	2.4	6.9	5.5	6.4	8.7	44	116	1100	389	19	40	25
9	2.0	8.0	5.4	5.8	9.2	28	118	1320	342	19	40	24
10	1.7	6.9	5.4	5.6	9.2	23	145	1280	90	18	40	23
11	1.5	6.4	5.2	6.5	8.6	21	515	1270	87	17	41	23
12	1.2	6.6	5.4	8.4	9.7	19	1270	1030	86	20	40	23
13	1.3	6.7	6.6	7.8	17	19	1270	409	82	20	40	30
14	1.3	6.6	6.7	7.3	14	23	1020	402	41	21	42	23
15	1.2	7.1	5.6	6.7	12	19	593	354	37	21	43	28
16	1.1	7.9	5.4	9.4	11	17	589	188	34	21	43	27
17	1.1	6.7	5.6	12	12	16	537	95	24	19	42	26
18	1.0	5.4	5.1	7.9	12	16	331	79	22	19	42	25
19	1.1	5.4	5.0	7.0	12	16	877	29	22	18	43	24
20	1.1	5.6	5.0	6.4	11	32	1220	24	22	19	45	24
21	1.2	5.9	5.1	5.9	11	152	799	26	22	36	43	23
22	1.3	6.1	5.7	5.7	11	382	90	33	22	39	42	23
23	1.4	6.4	7.1	5.7	11	394	82	305	22	39	41	22
24	1.9	6.4	7.1	8.1	11	623	89	1170	21	39	42	21
25	2.3	6.4	6.8	13	12	1370	232	829	21	40	42	20
26	2.2	6.2	6.9	13	11	1350	651	223	21	39	42	13
27	2.2	6.4	6.8	9.1	11	1330	468	38	21	41	42	12
28	2.3	6.3	7.0	7.5	16	1310	116	40	21	41	45	12
29	2.2	7.0	7.5	7.0	---	1110	111	31	21	40	50	12
30	2.3	8.8	7.3	6.6	---	514	118	25	21	39	45	11
31	2.2	---	6.6	6.6	---	232	---	23	---	39	45	---
TOTAL	67.3	197.3	192.9	231.1	293.3	9251	11985	15654	2198	825	1298	773
MEAN	2.17	6.58	6.22	7.45	10.5	298	400	505	73.3	26.6	41.9	25.8
MAX	6.6	9.1	9.4	13	17	1370	1270	1370	389	41	50	46
MIN	1.0	3.5	5.0	5.6	6.7	13	78	23	21	17	39	11
AC-FT	133	391	383	458	582	18350	23770	31050	4360	1640	2570	1530

CAL YR 1977	TOTAL	84597.6	MEAN 232	MAX 6420	MIN 1.0	AC-FT	167800	
WTR YR 1978	TOTAL	42965.9	MEAN 118	MAX 1370	MIN 1.0	AC-FT	85220	

07339850 ROLLING FORK NEAR HORATIO, AR

LOCATION.--Lat 33°57'19", long 94°24'03", in SW¼ sec.27 T.9 S., R.32 W., Sevier County, Hydrologic Unit 11140109, at bridge on State Highway 24, 1.5 mi (2.4 km) downstream from Bear Creek, and 3.0 mi (4.8 km) west of Horatio.

DRAINAGE AREA.--356 mi² (922 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
10...	9827	9827	163	7.3	16.5	10	6.9	70	1.3	59	29
NOV											
07...	9827	9827	108	6.5	16.0	40	6.9	69	1.9	59	--
DEC											
05...	9827	9827	70	--	11.0	15	9.9	89	.9	64	--
JAN											
09...	9827	9827	101	7.2	3.0	5	11.6	86	2.7	--	20
FEB											
06...	9827	9827	84	--	2.0	30	13.0	94	1.2	33	--
MAR											
06...	9827	9827	58	6.9	5.0	35	11.8	92	1.5	31	--
APR											
18...	9827	9827	33	6.5	16.0	70	8.2	82	2.4	4800	12
MAY											
01...	9827	9827	50	6.8	18.0	60	7.7	81	1.0	330	--
JUN											
05...	9827	9827	61	7.0	24.0	30	7.2	85	1.6	170	--
26...	9827	9827	83	6.8	28.0	30	6.0	76	--	45	--
JUL											
31...	9827	9827	57	6.8	29.0	20	6.6	85	1.7	20	15
AUG											
28...	9827	9827	59	7.0	27.0	10	--	84	1.3	210	--
SEP											
25...	9827	9827	67	7.0	21.0	25	7.1	79	.6	54	--

DATE	CALCIUM, TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE, DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C, DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
10...	6.0	3.0	16	2.2	22	2.0	31	91	8	<.05
NOV										
07...	--	--	--	--	--	--	16	--	15	.44
DEC										
05...	--	--	--	--	--	5.0	10	51	6	.09
JAN										
09...	4.0	2.2	9.6	1.5	20	5.0	--	71	12	<.05
FEB										
06...	--	--	--	--	--	5.0	10	69	6	.19
MAR										
06...	--	--	--	--	--	5.0	7.5	52	--	.16
APR										
18...	.9	1.1	3.5	1.5	11	--	8.5	56	45	.09
MAY										
01...	--	--	--	--	--	3.0	7.0	56	55	.09
JUN										
05...	--	--	--	--	--	4.0	7.5	49	10	.09
26...	--	--	--	--	--	19	12	59	8	.05
JUL										
31...	4.0	1.0	4.7	1.5	17	4.0	--	48	9	--
AUG										
28...	--	--	--	--	--	2.0	7.0	--	10	.01
SEP										
25...	--	--	--	--	--	3.0	7.0	--	8	.05

07339850 ROLLING FORK NEAR HORATIO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
10...	<.05	<.05	<.05	.03	<10	<5	<10	480	10	150
NOV										
07...	<.05	.97	.12	.05	--	--	--	--	--	--
DEC										
05...	<.05	.10	.11	.02	--	--	--	--	--	--
JAN										
09...	<.05	<.05	<.05	.04	<10	7	<20	440	<10	76
FEB										
06...	.05	.24	.04	.03	--	--	--	--	--	--
MAR										
06...	.01	.17	.06	.03	--	--	--	--	--	--
APR										
18...	.01	.10	.07	--	<10	<5	20	3000	90	130
MAY										
01...	.01	.10	.05	.08	--	--	--	--	--	--
JUN										
05...	.01	.10	.05	.08	--	--	--	--	--	--
26...	.01	.06	.06	.05	--	--	--	--	--	--
JUL										
31...	<.01	.01	.03	.11	<10	--	<20	450	70	180
AUG										
28...	<.01	.01	.04	.05	--	<5	--	--	--	--
SEP										
25...	<.01	.05	.03	.05	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
10...	--	20	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	20	--	--	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	.00	.00	.00	.00	.00	.00	.00	0
APR										
18...	--	20	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
26...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL										
31...	<1.0	10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP										
25...	--	--	.00	.00	.00	.00	.00	.00	.00	--

07340000 LITTLE RIVER NEAR HORATIO, AR

LOCATION.--Lat 33°55'10", long 94°23'15", in NE¼ sec.10, T.10 S., R.32 W., Sevier County, Hydrologic Unit 11140109, near left bank on downstream side of bridge on State Highway 41, 0.9 mi (1.4 km) downstream from Rolling Fork, 2.0 mi (3.2 km) southwest of Horatio, 28.5 mi (45.9 km) upstream from Cossatot River, and at mile 72.0 (115.8 km).

DRAINAGE AREA.--2,662 mi^2 (6,895 km^2) (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 858: 1932, 1935-36. WSP 1211: 1931, drainage area. WSP 1561: 1932.

GAGE.--Water-stage recorder. Datum of gage is 272.89 ft (83.177 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 5, 1935, nonrecording gage, and Feb. 5, 1935, to Sept. 13, 1961, water-stage recorder, at site 50 ft (15 m) upstream at present datum.

REMARKS.--Records good. Some regulation since Oct. 3, 1968, by Broken Bow Lake (Oklahoma), 31.4 mi (50.5 km) upstream, capacity, 1,368,000 acre-ft (1,690 hm^3), and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 mi (117.9 km) upstream, capacity, 465,800 acre-ft (574 hm^3).

AVERAGE DISCHARGE.--48 years, 3,745 ft^3/s (106 m^3/s), 2,713,000 acre-ft/yr (3,350 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft^3/s (3,400 m^3/s) Mar. 30, 1945, gage height, 37.70 ft (11.491 m), from rating curve extended above 93,000 ft^3/s (2,630 m^3/s); minimum, 1.0 ft^3/s (0.028 m^3/s) Aug. 18 to Sept. 1, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915, reached a stage of 38.0 ft (11.58 m), discharge, 124,000 ft^3/s (3,510 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,900 ft^3/s (422 m^3/s) May 6, gage height, 19.79 ft (6.032 m); minimum daily, 189 ft^3/s (5.35 m^3/s) Oct. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	401	410	321	2030	2310	8800	1300	1240	1150	817	748
2	284	479	455	241	871	2890	4020	1930	1440	466	570	607
3	198	1920	721	250	614	2680	3120	4600	1080	312	581	355
4	289	1170	515	656	775	2900	2920	9800	668	405	346	242
5	264	969	445	307	586	2450	3560	13500	581	337	305	257
6	198	569	532	231	489	2110	3850	14300	942	501	279	460
7	189	430	396	491	875	4270	3240	11100	1100	832	222	398
8	204	1150	581	275	1210	7520	3240	10500	1580	918	272	358
9	228	662	363	219	1460	7360	2870	12200	2350	430	299	639
10	191	986	508	381	2070	7130	3020	13400	2740	247	387	365
11	208	1350	337	493	1220	5650	7080	12100	1490	425	320	227
12	229	1040	289	625	548	3620	7380	9130	1150	334	389	326
13	210	681	420	653	862	3130	5740	5670	1930	427	317	322
14	385	481	316	810	3140	4640	5220	2040	2300	671	214	466
15	677	588	341	344	3240	4880	4470	1420	2270	641	748	358
16	246	411	348	333	3100	4700	2940	1710	1640	352	1170	406
17	191	743	402	920	2970	3700	2780	1480	1340	213	1110	334
18	235	443	383	2360	3000	1850	3930	1180	590	294	684	226
19	259	568	270	2140	1940	1080	3930	1070	339	270	675	410
20	312	346	329	1990	1640	941	4530	996	429	352	381	565
21	316	293	352	1850	1830	1080	3940	720	361	286	230	441
22	372	417	339	985	1650	1380	1920	556	447	366	414	297
23	301	299	333	686	1790	2470	915	2500	354	310	775	382
24	198	320	333	1170	1650	4710	721	2900	433	224	858	312
25	379	317	328	1200	1940	11000	1450	3920	343	297	1070	218
26	1460	320	241	1980	1620	11200	2010	2260	234	917	1200	293
27	615	316	253	2410	1510	10200	2530	1670	312	1110	469	279
28	339	246	289	1850	1820	10100	2580	804	757	1210	250	356
29	614	401	490	1240	---	11200	1940	631	898	1140	659	307
30	299	319	306	912	---	11600	1300	855	1480	447	790	357
31	231	---	321	1250	---	11100	---	971	---	255	748	---
TOTAL	10503	18635	11946	29573	46450	161851	105946	147213	32818	16139	17549	11311
MEAN	339	621	385	954	1659	5221	3532	4749	1094	521	566	377
MAX	1460	1920	721	2410	3240	11600	8800	14300	2740	1210	1200	748
MIN	189	246	241	219	489	941	721	556	234	213	214	218
AC-FT	20830	36960	23690	58660	92130	321000	210100	292000	65090	32010	34810	22440

CAL YR 1977 TOTAL 938759 MEAN 2572 MAX 31900 MIN 181 AC-FT 1862000
WTR YR 1978 TOTAL 609934 MEAN 1671 MAX 14300 MIN 189 AC-FT 1210000

07340000 LITTLE RIVER NEAR HORATIO, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-59, October 1968 to current year.

PERIOD OF DAILY RECORD.--
SEPCIFIC CONDUCTANCE: October 1953 to September 1959.
WATER TEMPERATURES: October 1953 to September 1959.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
06...	1028	--	208	--	--	20.0	--	--	--	--	--	--
06...	--	--	--	130	7.4	19.5	--	8.0	86	--	--	--
10...	9827	9827	--	113	7.2	18.0	35	7.3	77	.9	50	10
NOV												
03...	--	--	--	200	8.1	17.0	--	7.5	77	--	--	--
07...	9827	9827	--	72	6.5	17.0	20	7.0	72	1.1	40	20
DEC												
05...	9827	9827	--	96	--	11.0	15	9.4	85	2.1	190	33
08...	--	--	--	78	8.0	8.5	--	10.3	89	--	--	--
JAN												
05...	--	--	--	58	7.9	8.0	--	10.8	92	--	--	--
09...	9827	9827	--	83	7.2	5.0	10	11.0	86	1.1	140	<4
FEB												
06...	9827	9827	--	74	6.9	2.0	15	12.2	88	2.4	150	5
08...	1028	--	1140	--	--	3.0	--	--	--	--	--	--
08...	1028	9740	--	50	7.5	3.0	--	13.8	103	--	--	--
MAR												
06...	9827	9827	--	67	6.5	5.0	50	11.8	92	2.0	70	8
08...	1028	9740	--	70	7.1	7.0	--	11.2	92	--	--	--
APR												
06...	1028	9740	--	50	6.9	13.5	--	10.0	96	--	--	--
06...	1028	--	4450	--	--	14.5	--	--	--	--	--	--
18...	9827	9827	--	44	6.7	14.0	30	9.6	92	1.6	300	33
MAY												
01...	9827	9827	--	60	6.8	18.0	40	8.3	87	1.2	1300	160
04...	1028	9740	--	40	6.9	14.0	--	9.5	92	--	--	--
11...	1028	--	11700	--	--	17.0	--	--	--	--	--	--
JUN												
05...	9827	9827	--	81	6.9	24.0	30	6.8	80	1.0	43	47
15...	1028	--	2210	--	--	22.0	--	--	--	--	--	--
21...	1028	9740	--	57	7.3	28.5	--	6.8	88	--	--	--
26...	9827	9827	--	73	6.7	28.0	20	6.3	80	--	6000	78
JUL												
19...	1028	9740	--	62	7.5	31.0	--	7.4	99	--	--	--
19...	1028	--	228	--	--	29.5	--	--	--	--	--	--
31...	9827	9827	--	54	6.9	25.0	20	7.6	90	.8	300	27
AUG												
09...	1028	9740	--	67	7.2	27.5	--	7.6	95	--	--	--
28...	9827	9827	--	55	7.0	26.0	5	--	94	.8	83	23
SEP												
06...	1028	9740	--	96	7.3	26.5	--	7.6	94	--	--	--

07340000 LITTLE RIVER NEAR HORATIO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	22	5.0	2.0	12	1.7	10	5.0	20	74	4	.15	<.05
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	9.5	--	6	.25	<.05
DEC												
05...	--	--	--	--	--	--	7.0	16	78	6	.16	<.05
08...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
09...	15	3.0	1.6	7.5	1.4	30	5.0	--	68	2	.14	<.05
FEB												
06...	--	--	--	--	--	--	8.0	10	60	5	.19	.02
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	54	3.4	1.0	10	.7	--	8.0	2.0	--	4	--	--
MAR												
06...	--	--	--	--	--	--	8.0	7.0	70	--	.26	.02
08...	--	--	--	--	--	--	6.0	4.0	--	91	--	--
APR												
06...	17	3.4	1.5	<10	.6	--	7.0	2.0	--	16	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
18...	10	1.6	1.1	3.8	1.2	21	--	6.5	43	9	.12	.01
MAY												
01...	--	--	--	--	--	--	5.0	8.5	56	17	.13	.02
04...	--	--	--	--	--	--	11	2.0	--	20	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
05...	--	--	--	--	--	--	8.0	12	57	6	.16	.01
15...	--	--	--	--	--	--	--	--	--	--	--	--
21...	17	4.0	1.4	13	<1.0	--	<.0	8.0	--	17	--	--
26...	--	--	--	--	--	--	5.0	8.0	60	5	.12	.03
JUL												
19...	--	--	--	--	--	--	23	10	--	4	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	12	3.0	1.0	5.4	1.2	14	7.0	--	43	3	.12	.01
AUG												
09...	15	3.6	1.3	<5.0	.5	--	58	12	--	6	--	--
28...	--	--	--	--	--	--	5.0	7.0	--	5	.12	.01
SEP												
06...	--	--	--	--	--	--	<1.0	17	--	5	--	--

07340000 LITTLE RIVER NEAR HORATIO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	.16	.32	--	--	--	.04	<5	<10	<5	<10	810	20
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.27	.19	--	--	--	.05	--	--	--	--	--	--
DEC												
05...	.17	.21	--	--	--	.05	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
09...	.15	.06	--	--	--	.07	<5	<10	7	<20	370	30
FEB												
06...	.21	.13	--	--	--	.07	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	.10	--	1.2	1.3	5.8	4.7	<1	<1	25	<2	290	8
MAR												
06...	.28	.11	--	--	--	.06	--	--	--	--	--	--
08...	.30	--	1.7	2.0	9.1	.19	--	--	--	--	--	--
APR												
06...	.10	--	1.4	1.5	6.7	.54	--	--	--	--	1370	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.13	.05	--	--	--	--	<5	<10	<5	30	800	60
MAY												
01...	.15	.06	--	--	--	.08	--	--	--	--	--	--
04...	.10	--	1.5	1.6	7.1	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
05...	.17	.07	--	--	--	.08	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.10	--	1.6	1.7	7.8	.17	--	--	--	--	680	--
26...	.15	.11	--	--	--	.05	--	--	--	--	--	--
JUL												
19...	.10	--	1.2	1.3	5.9	3.0	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.13	.07	--	--	--	.11	<5	<10	--	140	240	20
AUG												
09...	<.10	--	.97	.97	--	5.0	<1	1	11	6	410	16
28...	.13	.07	--	--	--	.06	--	--	<5	--	--	--
SEP												
06...	.20	--	.47	.67	3.0	3.5	--	--	--	--	--	--

07340000 LITTLE RIVER NEAR HORATIO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
10...	110	--	20	.00	.00	.00	.00	.00	.00	.00	0
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	--	--	--	--	--	--	--	--	--	--	--
09...	190	--	10	--	--	--	--	--	--	--	--
FEB											
06...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	60	<.5	5	--	--	--	--	--	--	--	--
MAR											
06...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
08...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	90	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
18...	85	--	20	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
21...	130	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
31...	91	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
09...	90	<.5	38	--	--	--	--	--	--	--	--
28...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
SEP										
08...	1028	--	303	--	--	26.0	--	--	--	--
25...	9827	9827	--	96	6.5	22.0	10	6.7	76	.9

DATE	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
SEP									
08...	--	--	--	--	--	--	--	--	--
25...	260	14	5.0	16	4	.23	.01	.24	.10

DATE	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
SEP									
08...	--	--	--	--	--	--	--	--	--
25...	.07	.00	.00	.00	.00	.00	.00	.00	0

07340300 COSSATOT RIVER NEAR VANDERVOORT, AR
(Hydrologic bench-mark station)

LOCATION.--Lat 34°22'46", long 94°14'08", in SE¼NE¼ sec.30, T.4 S., R.30 W., Polk County, Hydrologic Unit 11140109, near left bank on downstream side of bridge on State Highway 246, 0.3 mi (0.5 km) downstream from Brushy Creek, 3.2 mi (4.1 km) upstream from Flat Creek, and 7.5 mi (12.1 km) east of Vandervoort.

DRAINAGE AREA.--89.6 mi^2 (232.1 km^2) (revised).

PERIOD OF RECORD.--June 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 771.88 ft (235.269 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 199 ft^3/s (5.64 m^3/s), 30.16 in/yr (766 mm/yr), 144,200 acre-ft/yr (178 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,500 ft^3/s (892 m^3/s) Dec. 9, 1971, gage height, 19.35 ft (5.898 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s) on the basis of step-backwater computations; minimum, 7.2 ft^3/s (0.20 m^3/s) Aug. 28, 29, 30, 31, 1972, gage height, 1.67 ft (0.509 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6, 1961, reached a stage of about 23.0 ft (7.01 m) from information by local resident, discharge, about 48,000 ft^3/s (1,400 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,630 ft^3/s (103 m^3/s) Apr. 10, gage height, 8.39 ft (2.557 m), no peak above base of 5,000 ft^3/s (140 m^3/s); minimum, 8.5 ft^3/s (0.24 m^3/s) Aug. 28, gage height, 1.72 ft (0.524 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	105	212	31	99	366	94	299	56	18	13	14
2	27	127	120	29	90	295	85	191	93	16	11	12
3	21	73	87	30	80	224	80	855	91	14	10	12
4	18	52	70	28	73	181	87	772	228	14	10	12
5	16	40	95	24	68	853	80	519	111	13	11	11
6	16	33	82	22	70	935	129	468	109	13	11	12
7	15	28	69	21	72	551	126	1270	128	12	11	11
8	15	33	60	20	69	435	112	641	221	12	10	10
9	14	130	51	19	64	345	100	352	168	11	9.9	12
10	13	83	44	18	60	270	1130	224	104	11	9.7	14
11	12	62	39	29	306	240	1010	164	73	10	9.8	13
12	11	50	36	37	631	185	433	147	57	10	10	51
13	10	42	42	34	368	200	266	148	50	10	12	274
14	12	36	49	44	226	312	188	110	39	11	23	96
15	12	32	47	47	177	245	147	91	32	11	16	50
16	11	31	46	336	157	193	120	79	29	12	12	31
17	10	37	50	397	131	160	214	69	26	11	11	23
18	10	31	52	215	121	137	465	65	25	11	9.9	19
19	9.6	28	50	158	131	119	258	58	23	10	14	17
20	9.4	27	46	123	124	108	179	56	25	9.8	19	15
21	9.2	27	40	100	123	1230	140	83	23	9.4	13	14
22	9.0	25	38	87	146	527	123	558	21	9.2	11	13
23	8.9	24	35	77	171	324	1250	406	20	9.4	11	13
24	13	24	33	162	185	1840	570	209	18	9.9	10	12
25	17	23	31	682	173	670	495	138	17	11	9.8	12
26	15	22	30	410	184	377	297	101	16	11	9.5	12
27	13	22	28	253	233	256	203	78	15	12	9.1	11
28	12	23	27	182	232	190	154	75	14	12	10	11
29	12	27	30	146	---	152	131	80	14	11	32	11
30	12	52	35	124	---	124	350	69	13	10	26	11
31	15	---	33	108	---	106	---	55	---	10	17	---
TOTAL	438.1	1349	1707	3993	4569	12150	9016	8430	1859	354.7	401.7	829
MEAN	14.1	45.0	55.1	129	163	392	301	272	62.0	11.4	13.0	27.6
MAX	40	130	212	682	631	1840	1250	1270	228	18	32	274
MIN	8.9	22	27	18	60	106	80	55	13	9.2	9.1	10
CFSM	.16	.50	.62	1.44	1.82	4.38	3.36	3.04	.69	.13	.15	.31
IN.	.18	.56	.71	1.66	1.90	5.04	3.74	3.50	.77	.15	.17	.34
AC-FT	869	2680	3390	7920	9060	24100	17880	16720	3690	704	797	1640

CAL YR 1977 TOTAL 52578.3 MEAN 144 MAX 7720 MIN 8.9 CFSM 1.61 IN 21.83 AC-FT 104300
WTR YR 1978 TOTAL 45096.5 MEAN 124 MAX 1840 MIN 8.9 CFSM 1.38 IN 18.72 AC-FT 89450

07340450 GILLHAM LAKE NEAR GILLHAM, AR

LOCATION.--Lat 34°12'37", long 94°13'44", in SE¼SE¼ sec.30, T.6 S., R.30 W., Howard County, Hydrologic Unit 11140109, at Gillham Dam on Cossatot River, 6.0 mi (9.6 km) northeast of Gillham, and at mile 49.0 (78.8 km).
DRAINAGE AREA.--273 mi² (707 km²).
PERIOD OF RECORD.--May 1975 to current year.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).
REMARKS.--Lake is formed by rockfill dam. Outlet works consist of a 10-ft (3.0-m) diameter pipe that will discharge flood waters, a 24-in (610-mm) pipe for water supply, and a 30-in (762-mm) pipe for quality control. Flow over the spillway is controlled by four 50-ft (15.2-m) by 42-ft (12.8-m) taintor gates. Storage began May 8, 1975. Lake is used for flood-control, water-supply, water-quality control, and fish and wildlife conservation. Capacity between elevations 464.5 ft (141.58 m) and 502.0 ft (153.01 m) is 29,310 acre-ft (36.1 hm³) and is conservation storage of which 20,510 acre-ft (25.3 hm³) is reserved for water supply, and 8,800 acre-ft (10.9 hm³) is reserved for quality control. Capacity between elevations 502.0 ft (153.01 m) and 569.0 ft (173.43 m) is 188,750 acre-ft (233 hm³) and is reserved for flood-control storage. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of Dam	586.0 (178.61 m)	312,270 (385 hm³)
Top of flood-control pool	569.0 (173.43 m)	221,780 (273 hm³)
Top of spillway crest	527.0 (160.63 m)	78,580 (96.9 hm³)
Top of conservation pool	502.0 (153.01 m)	33,030 (40.7 hm³)
Top of inactive pool	464.5 (141.58 m)	3,717 (4.58 hm³)
Bottom of lowest outlet	458.5 (139.75 m)	2,158 (2.66 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 118,600 acre-ft (146 hm³) Mar. 30, 1977, elevation, 541.91 ft (165.174 m); minimum since initial filling to conservation pool, 24,460 acre-ft (30.2 hm³) Sept. 11, 12, 1978, elevation, 495.14 ft (150.919 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 47,760 acre-ft (58.9 hm³) Mar. 25, elevation, 511.58 ft (155.930 m); minimum, 24,460 acre-ft (30.2 hm³) Sept. 11, 12, elevation, 495.14 ft (150.919 m).

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

495	24,300	502	33,030
498	27,830	507	40,320
		512	48,470

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32730	33060	34170	33650	32880	34640	33790	34760	33420	32380	28930	25420
2	32790	33900	34620	33680	32990	34700	33670	34240	33440	32300	28790	25310
3	32770	34240	34790	33720	33070	35370	33540	36380	33530	32230	28690	25210
4	32770	34280	34900	33760	33110	35650	33460	37180	33900	32160	28540	25120
5	32790	34250	34900	33820	33140	35640	33330	37300	34130	32060	28420	25020
6	32770	34170	34910	33830	33200	35210	33280	38310	34840	31950	28300	24960
7	32770	34030	34880	33850	33280	41560	33470	42760	35080	31840	28180	24850
8	32800	33970	34810	33800	33390	45270	33870	44660	34800	31730	28040	24800
9	32770	34140	34730	33780	33510	45100	34250	43540	34700	31650	27910	24730
10	32760	34350	34620	33720	33600	43230	39090	41370	34450	31560	27790	24560
11	32730	34420	34500	33820	33650	40730	44380	38790	34070	31450	27650	24510
12	32680	34430	34360	33830	33900	38140	44060	37210	33580	31350	27500	24590
13	32640	34430	34310	33860	36280	35550	42160	36860	33310	31260	27430	25060
14	32600	34320	34200	33890	36800	33530	40660	36280	33280	30600	27350	25360
15	32540	34150	34060	33990	36070	32840	39580	35570	33250	31150	27220	25450
16	32500	34030	33940	35370	35010	33400	38340	34760	33180	31060	27100	25480
17	32450	33850	33860	37300	34390	33740	39140	33920	33140	30950	26970	25480
18	32420	33650	33780	36960	34340	33900	42030	33350	33100	30830	26810	25480
19	32380	33490	33650	35630	34130	33970	40800	33180	33060	30730	26750	25430
20	32330	33330	33500	34740	33870	34070	37710	33290	33060	30590	26660	25380
21	32280	33140	33360	34340	33720	40150	35810	33600	33020	30440	26540	25310
22	32240	33060	33220	33830	33510	41550	35530	37120	32990	30290	26430	25270
23	32200	33060	33170	33530	33540	41150	42540	39300	32950	30100	26310	25200
24	32200	33090	33250	33800	34000	47080	44220	38700	32900	29990	26180	25150
25	32190	33110	33270	36710	34550	47650	43510	37450	32830	29870	26050	25080
26	32190	33100	33320	38400	35050	46420	40970	36540	32760	29720	25940	25010
27	32190	33100	33350	38250	35170	43890	38010	35870	32700	29620	25830	24940
28	32180	33100	33390	37050	34900	40590	35910	35180	32620	29480	25730	24850
29	32150	33130	33490	35550	---	37080	35000	34560	32540	29360	25670	24800
30	32110	33330	33540	33900	---	34620	34730	33890	32450	29230	25570	24720
31	32110	---	33600	32960	---	33800	---	33440	---	29080	25480	---
MAX	32800	34430	34910	38400	36800	47650	44380	44660	35080	32380	28930	25480
MIN	32110	33060	33170	32960	32880	32840	33280	33180	32450	29080	25480	24510
(†)	501.32	502.22	502.41	501.95	503.34	502.56	503.22	502.30	501.57	499.00	496.03	495.37
(‡)	-490	+1220	+270	-640	+1940	-1100	+930	-1290	-990	-3370	-3600	-760

CAL YR 1977 MAX 118600 MIN 30120 ‡ +310
WTR YR 1978 MAX 47650 MIN 24510 ‡ -7880

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

07340500 COSSATOT RIVER NEAR DEQUEEN, AR

LOCATION.--Lat 34°02'45", long 94°12'42", in NE¼NE¼ sec.29, T.8 S., R.30 W., Sevier County, Hydrologic Unit 11140109, near right bank on downstream side of bridge on U.S. Highway 71, just downstream from Hale Creek, 7.0 mi (11.3 km) east of DeQueen, and at mile 33.5 (53.9 km).

DRAINAGE AREA.--360 mi^2 (932 km^2) (revised).

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

GAGE.--Water-stage recorder. Datum of gage is 335.48 ft (102.254 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 9, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good. Records do not include about 2.5 ft^3/s (0.071 m^3/s) diverted by DeQueen for municipal use. Some regulation by Gillham Lake 15.5 mi (24.9 km) upstream since May 1975 (see station 07340450).

AVERAGE DISCHARGE.--40 years, 614 ft^3/s (17.4 m^3/s), 444,800 acre-ft/yr (548 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft^3/s (3,460 m^3/s) May 13, 1968, gage height, 22.60 ft (6.891 m), from rating curve extended above 65,000 ft^3/s (1,840 m^3/s) on basis of contracted-opening measurement of peak flow; minimum 1.1 ft^3/s (0.031 m^3/s) Sept. 2, 3, 1972, gage height, 2.90 ft (0.884 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,900 ft^3/s (82.1 m^3/s) Mar. 7, gage height, 9.24 ft (2.816 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Oct. 11-13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	41	37	25	517	810	378	904	185	41	61	63
2	34	41	43	41	212	945	335	867	142	42	61	68
3	36	34	125	45	192	955	322	1440	136	41	57	64
4	32	49	164	45	142	890	330	2030	134	41	52	59
5	21	136	166	45	173	840	267	2360	130	43	59	51
6	20	137	161	45	162	1200	318	1510	372	48	61	48
7	20	131	157	70	105	1860	298	1720	486	55	56	45
8	20	134	157	75	92	1150	115	1720	728	51	58	42
9	20	136	154	75	90	1920	80	2050	672	48	62	39
10	18	127	151	75	86	2280	249	1970	431	43	64	39
11	17	120	149	75	102	2140	1010	1930	398	40	66	38
12	17	115	146	75	121	2110	1800	1800	389	40	64	44
13	17	111	154	75	359	2150	1990	760	378	41	60	56
14	21	103	164	75	760	2090	1760	680	149	40	55	44
15	25	127	171	75	1270	1700	1140	651	103	42	52	40
16	26	138	171	120	1250	870	1100	635	89	41	58	40
17	25	134	171	350	1160	400	1080	623	77	40	62	40
18	24	130	164	1000	535	370	822	565	71	38	61	38
19	25	130	159	1420	440	350	1580	335	65	38	67	37
20	24	131	168	1230	440	340	2280	117	60	53	65	37
21	25	127	168	595	440	480	2010	97	56	58	54	38
22	28	119	162	569	440	950	680	124	53	63	56	42
23	29	92	157	539	440	1400	680	267	48	62	58	39
24	31	76	71	338	243	2030	788	1150	45	57	57	40
25	31	23	34	724	232	2270	1450	1160	46	56	55	39
26	29	22	29	1060	218	2130	2050	1000	44	61	52	37
27	29	20	26	1060	380	2150	2040	599	43	65	49	37
28	29	16	25	1440	820	2390	1860	588	42	68	49	37
29	30	20	26	1400	---	2330	888	576	41	69	63	37
30	30	26	26	1380	---	2030	925	561	41	64	67	38
31	30	---	25	1160	---	1120	---	535	---	55	60	---
TOTAL	808	2700	3694	15301	11461	44700	30625	31324	5654	1544	1821	1316
MEAN	26.1	90.0	119	494	409	1442	1021	1010	188	49.8	58.7	43.9
MAX	40	138	171	1440	1270	2390	2280	2360	728	69	67	68
MIN	17	16	25	25	86	340	80	97	41	38	49	37
AC-FT	1600	5360	7330	30350	22730	88660	60740	62130	11210	3060	3610	2610

CAL YR 1977 TOTAL 185903 MEAN 509 MAX 6670 MIN 17 AC-FT 368700
WTR YR 1978 TOTAL 150948 MEAN 414 MAX 2390 MIN 17 AC-FT 299400

07340520 COSSATOT RIVER NEAR LOCKESBURG, AR

LOCATION.--Lat 33°58'17", long 94°13'20", in NW¼ sec.20, T.9 S., R.30 W., Sevier County, Hydrologic Unit 11140109, at bridge on State Highway 24, 3.1 mi (5.0 km) west of Lockesburg.

DRAINAGE AREA.--385 mi² (997 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
10...	9827	9827	55	7.2	17.0	5	7.6	78	1.4	120	13
NOV											
07...	9827	9827	51	6.7	17.0	15	8.5	88	1.1	67	--
DEC											
05...	9827	9827	54	--	10.0	25	10.0	88	1.3	100	--
JAN											
09...	9827	9827	55	7.2	3.0	10	11.8	87	1.8	38	15
FEB											
06...	9827	9827	53	7.4	2.0	20	12.7	92	2.2	18	--
MAR											
06...	9827	9827	38	7.2	5.0	30	11.1	87	.7	40	--
APR											
18...	9827	9827	43	6.7	15.0	30	9.4	92	1.2	70	6
MAY											
01...	9827	9827	36	6.8	16.0	40	8.7	87	1.1	420	--
JUN											
05...	9827	9827	43	7.0	--	10	7.0	--	.7	130	--
26...	9827	9827	44	6.8	27.0	20	6.8	84	--	65	--
JUL											
31...	9827	9827	45	6.8	28.0	10	6.0	76	.6	14	12
AUG											
28...	9827	9827	40	7.0	27.0	5	--	85	1.2	92	--
SEP											
25...	9827	9827	47	7.0	21.0	10	8.0	89	1.6	46	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
10...	3.0	1.0	3.9	1.6	17	2.0	5.0	35	6	<.05
NOV										
07...	--	--	--	--	--	--	4.5	--	8	<.05
DEC										
05...	--	--	--	--	--	3.0	4.5	47	8	.14
JAN										
09...	3.0	1.5	4.0	1.1	18	4.0	--	47	5	.14
FEB										
06...	--	--	--	--	--	3.0	4.5	43	2	.21
MAR										
06...	--	--	--	--	--	4.0	4.5	44	--	.13
APR										
18...	.5	.7	2.5	1.1	11	--	4.0	37	5	.10
MAY										
01...	--	--	--	--	--	2.0	4.0	43	13	.11
JUN										
05...	--	--	--	--	--	1.0	4.5	37	5	.09
26...	--	--	--	--	--	3.0	4.0	43	7	.07
JUL										
31...	3.0	1.0	4.5	1.1	15	1.0	--	40	6	--
AUG										
28...	--	--	--	--	--	2.0	3.5	--	7	.02
SEP										
25...	--	--	--	--	--	3.0	4.5	--	9	.05

07340520 COSSATOT RIVER NEAR LOCKESBURG, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
10...	<.05	<.05	<.05	.03	<10	<5	<10	390	20	120
NOV										
07...	<.05	.05	.07	.02	--	--	--	--	--	--
DEC										
05...	<.05	.15	.09	.03	--	--	--	--	--	--
JAN										
09...	<.05	.15	<.05	.03	<10	--	<20	680	20	170
FEB										
06...	.02	.23	.06	.02	--	--	--	--	--	--
MAR										
06...	.01	.14	.07	.03	--	--	--	--	--	--
APR										
18...	.01	.11	.06	--	<10	<5	20	930	80	63
MAY										
01...	.01	.12	.02	.06	--	--	--	--	--	--
JUN										
05...	.01	.16	.07	.18	--	--	--	--	--	--
26...	.01	.08	.09	.05	--	--	--	--	--	--
JUL										
31...	<.01	.02	.04	.22	<10	--	<20	290	70	120
AUG										
28...	<.01	.02	.03	.05	--	<5	--	--	--	--
SEP										
25...	.01	.06	.06	.06	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
10...	--	20	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	20	--	--	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	.00	.00	.00	.00	.00	.00	.00	0
APR										
18...	--	<10	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
26...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL										
31...	<1.0	10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP										
25...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07340990 DIERKS LAKE NEAR DIERKS, AR

LOCATION.--Lat 34°08'39", long 94°05'53", in NE¼NW¼ sec.21, T.7 S., R.29 W., Howard County, Hydrologic Unit 11140109, at Dierks Dam on Saline River, 3.1 mi (5.0 km) upstream from Bluff Creek, 5.0 mi (8.0 km) northwest of Dierks, and at mile 56.6 (91.1 km).
DRAINAGE AREA.--113 mi^2 (293 km^2) (revised).
PERIOD OF RECORD.--May 1975 to current year.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).
REMARKS.--Lake is formed by rockfill dam with an uncontrolled 780 ft (238 m) wide spillway located on the right abutment west of dam. The outlet works consists of a gate tower with two hydraulic operated slide gates, a 6-ft (1.8-m) by 9-ft (2.7-m) oblong conduit, a 24-in (610-mm) diameter pipe for low-flow augmentation, and a 30-in (762-mm) diameter pipe for water supply. Storage began May 8, 1975. Lake is used for flood-control, water-supply, water-quality control, fish and wildlife conservation, and recreation. Capacity below 512.0 ft (156.06 m) is 14,560 acre-ft (18.0 hm^3), and is inactive storage. Capacity between 512.0 ft (156.06 m), and 526.0 ft (160.32 m) is 15,090 acre-ft (18.6 hm^3), and is conservation storage of which 10,600 acre-ft (13.1 hm^3) is for water supply, and 4,490 acre-ft (5.54 hm^3) is for quality control. Capacity between 526.0 ft (160.32 m) and 557.5 ft (169.93 m) is 67,130 acre-ft (82.8 hm^3) and is for flood control. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest.....	575.0 (175.26 m)	159,500 (197 hm^3)
Top of flood-control pool.....	557.5 (169.93 m)	96,780 (119 hm^3)
Top of conservation pool.....	526.0 (160.32 m)	29,650 (36.6 hm^3)
Top of inactive pool.....	512.0 (156.06 m)	14,560 (18.0 hm^3)
Bottom of lowest outlet.....	508.0 (154.84 m)	11,600 (14.3 hm^3)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 49,070 acre-ft (60.5 hm^3) Mar. 7, 1977, elevation, 537.88 ft (163.946 m); minimum since initial filling to conservation pool, 25,040 acre-ft (30.9 hm^3) Sept. 30, 1978, elevation, 522.42 ft (159.234 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,040 acre-ft (44.4 hm^3) Mar. 9, elevation, 530.38 ft (161.660 m); minimum, 25,040 acre-ft (30.9 hm^3) Sept. 30, elevation, 522.42 ft (159.234 m).

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

522	24,540	527	31,030
524	27,010	531	37,010

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28090	28220	29500	29450	29610	29310	29830	29880	30100	28720	27000	25460
2	28090	28830	29610	29410	29500	29700	29700	29880	30040	28660	26930	25400
3	28090	29040	29650	29370	29450	30160	29580	30410	29990	28580	26880	25360
4	28090	29180	29730	29310	29450	30510	29470	30260	29920	28560	26800	25310
5	28090	29260	29720	29290	29500	30780	29410	30080	30010	28530	26740	25280
6	28090	29330	29700	29270	29520	30960	29430	30580	30270	28490	26660	25250
7	28080	29350	29680	29270	29520	33920	29460	31660	30220	28470	26600	25210
8	28080	29490	29640	29270	29520	35510	29460	32290	29880	28400	26540	25180
9	28060	29600	29610	29270	29520	35850	29470	32180	29610	28380	26460	25160
10	28050	29680	29570	29270	29520	34910	30070	31580	29570	28340	26420	25100
11	28010	29740	29470	29380	29520	33760	30440	30860	29520	28270	26340	25090
12	28010	29800	29470	29410	29660	32530	30040	30510	29460	28230	26290	25130
13	27970	29840	29490	29470	30010	31520	29490	30570	29370	28190	26220	25180
14	27950	29870	29570	29490	30290	31060	29230	30370	29330	28170	26180	25190
15	27950	29930	29620	29560	30150	30760	29350	30110	29300	28140	26100	25190
16	27930	29960	29700	30270	29650	30410	29420	29830	29270	28100	26040	25190
17	27880	29930	29730	30930	29420	30000	29690	29520	29230	28060	25980	25190
18	27870	29850	29730	31090	29540	29570	30180	29370	29220	28010	25900	25190
19	27870	29780	29740	30720	29640	29100	30290	29410	29180	27950	25840	25190
20	27840	29740	29770	30430	29760	28930	30080	29490	29150	27910	25780	25190
21	27830	29680	29780	30220	29830	30480	29970	29740	29140	27830	25710	25220
22	27820	29610	29770	29960	29950	30690	30150	30250	29110	27700	25650	25220
23	27820	29560	29760	29810	30040	30060	31690	30500	29070	27630	25590	25220
24	27860	29500	29720	30160	30160	31140	32130	30390	29030	27560	25520	25220
25	27870	29420	29700	31030	30270	31790	31560	30200	29000	27490	25450	25190
26	27870	29350	29660	31200	30340	32070	30540	30200	28950	27410	25380	25160
27	27870	29300	29610	31110	30200	31850	29730	30200	28910	27370	25320	25130
28	27860	29200	29570	30790	29660	31160	29450	30270	28870	27300	25590	25100
29	27860	29220	29560	30390	---	30400	29540	30260	28810	27230	25620	25070
30	27870	29340	29520	29910	---	30000	29740	30220	28790	27170	25560	25040
31	27890	---	29470	29680	---	29920	---	30150	---	27060	25510	---
MAX	28090	29960	29780	31200	30340	35850	32130	32290	30270	28720	27000	25460
MIN	27820	28220	29470	29270	29420	28930	29230	29370	28790	27060	25320	25040
(†)	524.68	525.77	525.87	526.02	526.01	526.20	526.07	526.37	525.36	524.04	522.81	522.42
(‡)	-590	+1450	+130	+210	-20	+260	-180	+410	-1360	-1730	-1550	-470

CAL YR 1977 MAX 49050 MIN 27710 ‡ -380
WTR YR 1978 MAX 35850 MIN 25040 ‡ -3440

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

07341000 SALINE RIVER NEAR DIERKS, AR

LOCATION.--Lat 34°05'45", long 94°05'04", in NW¼SW¼ sec.3, T.8 S., R.29 W., Howard County, Hydrologic Unit 11140109, near left bank on downstream side of bridge on U.S. Highway 70, 3.5 mi (5.6 km) upstream from Holly Creek, 4.0 mi (6.4 km) southwest of Dierks, and at mile 50.7 (81.6 km).

DRAINAGE AREA.--121 mi² (313 km²) (revised).

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

REVISED RECORDS.--WSP 1007: 1939-42. WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 353.09 ft (107.622 m) National Geodetic Vertical Datum of 1929. May 13, 1938, to Aug. 9, 1940, nonrecording gage and Aug. 10, 1940, to Aug. 30, 1951, water-stage recorder, at site 100 ft (30 m) upstream at present datum.

REMARKS.--Records good. Some regulation by Dierks Lake 5.9 mi (9.5 km) upstream since May 8, 1975 (see station 07340990).

AVERAGE DISCHARGE.--40 years, 191 ft³/s (5.41 m³/s), 138,400 acre-ft/yr (171 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,200 ft³/s (1,680 m³/s) May 13, 1968, gage height, 22.95 ft (6.995 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of some time in 1920 reached a stage of 21.9 ft (6.68 m), from information by local resident, discharge, 42,000 ft³/s (1,190 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) Mar. 13, gage height, 7.96 ft (2.426 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Oct. 6, 7, 9, 10, 16, 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	8.2	8.5	38	161	353	166	62	55	12	26	24
2	8.0	9.0	9.0	38	160	75	165	59	55	13	26	24
3	7.6	5.0	39	38	115	73	165	166	56	12	26	24
4	4.5	4.3	39	38	54	67	167	539	55	12	26	24
5	2.9	4.9	39	38	53	64	126	679	54	12	26	22
6	2.8	5.8	39	33	53	193	61	278	65	13	26	8.0
7	2.8	5.7	39	8.7	54	369	60	305	140	13	26	10
8	2.9	7.1	39	7.1	54	43	57	357	264	13	26	11
9	2.8	12	38	6.9	54	348	57	510	222	13	26	11
10	2.8	10	38	7.0	54	1060	70	656	50	13	26	11
11	2.9	9.0	38	7.0	54	1050	243	652	49	12	26	11
12	2.9	8.6	39	8.0	59	1040	534	521	49	12	26	13
13	2.9	8.4	40	9.0	67	1050	533	248	49	12	26	14
14	3.0	8.3	39	9.0	64	705	339	246	42	13	26	12
15	2.9	8.6	39	10	232	402	58	246	14	13	26	11
16	2.8	15	39	35	452	398	57	245	14	12	26	11
17	2.8	46	40	75	316	395	62	244	14	12	26	11
18	2.9	47	39	250	62	393	63	156	13	14	26	11
19	3.0	47	39	427	61	391	127	35	13	26	26	11
20	3.0	48	39	352	62	244	245	33	13	26	26	11
21	3.0	47	38	254	61	47	175	34	13	26	26	14
22	3.1	46	38	253	60	379	59	35	13	26	26	16
23	3.4	46	38	194	61	826	60	100	13	26	26	13
24	4.2	46	39	63	60	635	195	238	13	26	26	12
25	4.9	46	38	240	60	288	616	206	13	26	26	11
26	3.9	40	38	433	59	280	874	58	13	26	26	11
27	3.8	40	38	425	179	444	694	58	13	26	26	11
28	3.9	40	38	421	455	660	308	60	12	26	36	11
29	3.9	20	40	418	---	654	59	57	12	26	33	11
30	4.5	8.4	39	416	---	430	65	58	12	26	25	11
31	4.7	---	39	293	---	167	---	57	---	26	24	---
TOTAL	118.0	697.3	1141.5	4844.7	3236	13523	6460	7198	1413	564	820	406.0
MEAN	3.81	23.2	36.8	156	116	436	215	232	47.1	18.2	26.5	13.5
MAX	8.5	48	40	433	455	1060	874	679	264	26	36	24
MIN	2.8	4.3	8.5	6.9	53	43	57	33	12	12	24	8.0
AC-FT	234	1380	2260	9610	6420	26820	12810	14280	2800	1120	1630	805

CAL YR 1977 TOTAL 55573.3 MEAN 152 MAX 1170 MIN 2.8 AC-FT 110200
WTR YR 1978 TOTAL 40421.5 MEAN 111 MAX 1060 MIN 2.8 AC-FT 80180

07341200 SALINE RIVER NEAR LOCKESBURG, AR

LOCATION.--Lat 33°57'43", long 94°03'40", in NW¼SE¼ sec.23, T.9 S., R.29 W., Sevier County, Hydrologic Unit 11140109, near right bank on downstream side of bridge on State Highway 24, 2.0 mi (3.2 km) downstream from Brushy Creek, 6.0 mi (9.7 km) east of Lockesburg, and at mile 30 (48 km).

DRAINAGE AREA.--256 mi² (663 km²) (revised).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft (91.440 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Some regulation by Dierks Lake 26.6 mi (43 km) upstream since May 1975 (see station 07340990).

AVERAGE DISCHARGE.--15 years, 371 ft³/s (10.5 m³/s), 268,800 acre-ft/yr (331 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,700 ft³/s (1,830 m³/s) May 14, 1969, gage height, 20.86 ft (6.358 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.20 ft³/s (0.006 m³/s) Nov. 6, 1963, Oct. 29, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6 or 7, 1961, reached a stage of about 25.6 ft (7.83 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,010 ft³/s (85.2 m³/s) Mar. 7, gage height, 13.92 ft (4.243 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Oct. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	57	46	244	616	218	263	69	12	22	24
2	14	124	54	43	209	281	209	142	70	11	22	24
3	12	54	30	42	204	319	202	566	71	12	22	24
4	11	24	54	42	123	207	202	873	66	11	22	24
5	11	16	53	42	95	153	204	1150	64	12	22	24
6	8.3	12	50	43	89	141	122	831	82	12	23	23
7	5.9	7.8	47	38	85	1940	98	748	295	12	23	15
8	4.9	8.0	45	20	84	1500	89	644	326	12	22	8.9
9	4.2	16	43	13	83	590	84	666	322	12	22	11
10	3.7	23	42	11	84	1050	95	750	164	12	22	12
11	3.1	16	43	14	83	1190	242	761	66	12	23	12
12	2.7	15	43	21	85	1150	610	770	62	12	23	14
13	2.7	13	50	25	204	1170	638	452	59	11	22	18
14	2.5	11	63	32	204	1600	608	333	55	11	22	23
15	2.5	9.8	59	40	136	778	147	299	51	11	23	17
16	2.3	8.8	53	215	506	622	87	284	22	12	22	14
17	2.4	8.1	54	833	558	572	84	275	18	11	22	13
18	2.4	46	54	263	201	544	120	268	16	11	22	12
19	2.5	49	51	560	127	526	120	95	16	11	23	12
20	2.5	51	49	570	127	508	242	57	15	19	28	12
21	2.6	61	46	364	135	188	274	54	15	22	23	12
22	2.6	64	45	322	124	234	115	58	15	23	22	39
23	2.5	56	45	313	115	877	89	59	14	23	22	34
24	2.5	53	45	209	112	1460	146	196	14	23	22	18
25	3.0	52	43	502	104	954	785	257	13	23	22	15
26	2.6	49	42	1050	100	554	932	142	13	23	22	13
27	3.1	42	42	704	95	462	908	70	12	23	22	13
28	4.2	41	42	602	456	796	556	70	12	23	23	13
29	3.8	44	45	564	---	798	150	71	12	23	40	12
30	3.2	34	48	544	---	756	302	68	12	22	40	12
31	2.6	---	47	522	---	688	---	67	---	22	25	---
TOTAL	151.3	1029.1	1484	8609	4773	22624	8678	11339	2043	489	735	517.9
MEAN	4.88	34.3	47.9	278	170	730	289	366	68.1	15.8	23.7	17.3
MAX	18	124	63	1050	558	1940	932	1150	326	23	40	39
MIN	2.3	7.8	30	11	83	141	84	54	12	11	22	8.9
AC-FT	300	2040	2940	17080	9470	44870	17210	22490	4050	970	1460	1030

CAL YR 1977 TOTAL 102708.6 MEAN 281 MAX 6740 MIN 2.3 AC-FT 203700
WTR YR 1978 TOTAL 62472.3 MEAN 171 MAX 1940 MIN 2.3 AC-FT 123900

07341200 SALINE RIVER NEAR LOCKESBURG, AR--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT												
04...	1028	--	11	--	--	18.5	--	--	--	--	--	--
10...	9827	9827	--	95	7.2	16.0	40	6.8	68	3.5	240	160
NOV												
07...	9827	9827	--	88	6.7	15.0	50	5.8	57	2.0	27	60
DEC												
05...	9827	9827	--	92	--	10.0	70	8.7	77	1.7	150	80
JAN												
09...	9827	9827	--	84	7.3	2.0	25	11.1	80	4.3	470	25
FEB												
06...	9827	9827	--	72	7.3	1.0	30	12.6	89	2.7	620	51
08...	1028	--	84	--	--	2.0	--	--	--	--	--	--
MAR												
06...	9827	9827	--	75	7.2	5.0	50	11.8	97	2.0	150	51
APR												
05...	1028	--	202	--	--	15.0	--	--	--	--	--	--
18...	9827	9827	--	68	6.9	16.0	40	8.2	82	1.8	230	97
MAY												
01...	9827	9827	--	99	7.0	17.0	120	6.7	69	5.7	1800	3400
11...	1028	--	714	--	--	15.5	--	--	--	--	--	--
JUN												
05...	9827	9827	--	61	7.1	23.0	30	6.2	71	1.6	<100	140
15...	1028	--	48	--	--	24.5	--	--	--	--	--	--
26...	9827	9827	--	71	7.0	26.0	30	4.0	49	--	230	38
JUL												
19...	1028	--	10	--	--	29.0	--	--	--	--	--	--
31...	9827	9827	--	58	6.8	27.0	30	4.2	52	.2	1300	60
AUG												
28...	9827	9827	--	59	7.1	26.0	30	--	72	1.8	200	35
SEP												
07...	1028	--	14	--	--	25.5	--	--	--	--	--	--
25...	9827	9827	--	60	7.1	21.0	30	5.6	62	.8	600	37

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
10...	22	4.0	2.0	6.9	<3.0	25	2.0	9.5	72	20	<.05	<.05
NOV												
07...	--	--	--	--	--	--	--	6.5	--	19	<.05	<.05
DEC												
05...	--	--	--	--	--	--	6.0	7.5	82	18	.07	<.05
JAN												
09...	24	4.0	1.9	5.8	1.6	25	37	--	64	13	.15	<.05
FEB												
06...	--	--	--	--	--	--	5.0	6.5	63	5	.21	.02
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
06...	--	--	--	--	--	--	8.0	7.0	73	--	.19	.03
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	18	3.1	1.8	4.7	1.6	20	--	9.5	54	4	.22	.01
MAY												
01...	--	--	--	--	--	--	8.0	6.5	108	66	.22	.03
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
05...	--	--	--	--	--	--	2.0	5.0	50	17	.13	.01
15...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	4.0	5.0	65	21	.06	.02
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	23	5.0	2.0	5.2	1.7	17	3.0	--	64	10	.05	.01
AUG												
28...	--	--	--	--	--	--	3.0	6.0	--	9	.05	.01
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	5.0	6.5	--	32	.12	.02

07341200 SALINE RIVER NEAR LOCKESBURG, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
10...	<.05	<.05	--	--	--	--	.08	<5	<10	<5	10	1600
NOV												
07...	<.05	.15	--	--	--	--	.07	--	<10	--	<10	2400
DEC												
05...	.08	.13	--	--	--	--	.13	<3	<10	--	70	2800
JAN												
09...	.16	.05	--	--	--	--	.06	<5	<10	--	50	3300
FEB												
06...	.23	.15	--	--	--	--	.04	--	<10	--	20	860
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
06...	.22	.10	--	--	--	--	.06	--	<10	--	<20	1200
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.23	.04	.96	1.0	1.2	5.4	--	<5	<10	10	20	1300
MAY												
01...	.25	.12	--	--	--	--	.14	--	<10	--	30	3900
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
05...	.14	.10	--	--	--	--	.25	--	<10	--	<20	1300
15...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.08	.14	--	--	--	--	.09	--	<10	--	<20	1100
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.06	.16	--	--	--	--	.29	<5	<10	--	<20	900
AUG												
28...	.06	.05	--	--	--	--	.09	--	<10	<5	<20	610
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
25...	.14	.08	--	--	--	--	.09	--	<10	--	<20	2300

DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
10...	20	500	--	30	.00	.00	.00	.00	.00	.00	.00	0
NOV												
07...	--	370	--	30	--	--	--	--	--	--	--	--
DEC												
05...	--	130	--	90	--	--	--	--	--	--	--	--
JAN												
09...	130	110	--	60	--	--	--	--	--	--	--	--
FEB												
06...	--	100	--	20	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
06...	--	110	--	40	.00	.00	.00	.00	.00	.00	.00	0
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	230	140	--	20	--	--	--	--	--	--	--	--
MAY												
01...	--	240	--	30	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
05...	--	230	--	40	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	490	--	210	.00	.00	.00	.00	.00	.00	.00	0
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	70	250	<1.0	10	.00	.00	.00	.00	.00	.00	.00	0
AUG												
28...	--	260	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	<10	.00	.00	.00	.00	.00	.00	.00	0

07341300 MILLWOOD LAKE NEAR ASHDOWN, AR

LOCATION.--Lat 33°41'28", long 93°57'53", in NW¼ sec.26, T.12 S., R.28 W., Little River County, Hydrologic Unit 11140109, at Millwood Dam on Little River, 9.2 mi (14.8 km) east of Ashdown, 9.6 mi (15.4 km) upstream from Hudson Creek, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--4,119 mi² (10,670 km²).

PERIOD OF RECORD.--August 1966 to current year. Prior to October 1969, published as Millwood Reservoir near Ashdown.

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

REMARKS.--Lake is formed by earthfill dam. Outlet works consists of two 5-ft (1.5-m) by 6-ft (1.8-m) rectangular sluices. Flows over the spillway are controlled by fourteen 40-ft (12.2-m) by 32-ft (9.8-m) taintor gates. Regulated storage began Aug. 16, 1966. Capacity between elevations 257.0 ft (78.33 m) and 287.0 ft (87.48 m) is 1,709,000 acre-ft (2,110 hm³) and is reserved for flood-control storage. Lake is used for flood-control, future water-supply, water-quality control, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of flood-control pool.....	287.0 (87.48 m)	1,854,900 (2,290 hm³)
Top of conservation pool.....	257.0 (78.33 m)	145,900 (180 hm³)
Bottom of lowest outlet.....	223.0 (67.97 m)	393 (0.485 hm³)

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,457,000 acre-ft (1,800 hm³) May 22, 1968, elevation, 282.59 ft (86.133 m); minimum since initial filling to conservation pool, 96,000 acre-ft (118 hm³) Sept. 26, 1971, elevation, 254.73 ft (77.642 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 248,000 acre-ft (306 hm³) May 13, elevation, 260.60 ft (79.431 m); minimum, 99,180 acre-ft (122 hm³) Oct. 21, 22, elevation, 254.89 ft (77.690 m).

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

254	82.5	261	261.0
259	199.2		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102800	106600	106800	105000	121800	119600	226900	213800	209400	209400	212900	207600
2	103000	105400	106200	104400	120900	129500	224700	211700	209400	211700	214400	206700
3	101800	106200	105600	104000	115900	139100	215300	213800	210600	211400	213800	205300
4	101000	107500	105600	104400	112500	146600	209400	214400	209400	212000	213200	204400
5	101600	106400	105800	104800	108100	154600	206400	219800	207600	211700	212900	204100
6	101000	106000	103800	105000	105800	164300	208200	232100	206400	211400	210800	204700
7	100000	104400	103000	105000	105200	183100	208200	242800	206700	212900	209100	205000
8	101200	104400	105000	105200	105600	204400	207300	243200	209400	212900	207000	205000
9	100200	104400	104800	104600	106400	212600	205600	238400	209700	214400	206100	204400
10	100000	103800	104600	103800	107900	209100	207300	236200	213500	213500	205800	204700
11	100400	104200	104800	106800	109100	207300	211200	235300	216500	211400	204400	205300
12	99580	105400	105000	107700	110000	199700	220200	242200	217100	210300	205600	206400
13	99380	105800	106000	107900	109100	202300	217400	245400	216200	208800	205800	207300
14	99380	105400	105600	108900	108500	210600	212600	236500	215000	207600	204700	207600
15	100400	103600	104800	109100	113100	220200	209100	222000	213200	208500	204100	208500
16	100000	105400	104600	114600	116400	226600	202900	212300	211200	208500	205600	207900
17	99380	105200	104400	115300	121200	227800	201500	206700	209100	207900	206700	207300
18	99780	104400	104000	118100	125900	225300	206100	205600	207300	207300	207900	208200
19	99580	104200	104000	119200	126800	220400	209700	207000	203500	207000	209700	208200
20	99380	105200	103200	119600	127400	213200	215900	208800	203800	206400	209400	208500
21	99180	107300	103000	119800	123800	210600	220400	209700	204700	206400	209400	209400
22	99380	106600	102400	118500	121800	204100	227200	210000	203500	207000	209100	209100
23	99180	106800	103200	115300	119000	205600	224700	211400	204400	207600	209700	209100
24	100800	106600	104800	115900	117000	211200	230300	214400	204400	207900	210600	209100
25	100600	105200	104200	121800	116600	215600	223500	216800	204400	207300	212900	208800
26	101600	103800	103800	122500	115300	225600	215000	218300	204700	207000	213800	208200
27	103400	103400	103800	126800	114600	229300	212900	218000	204700	208200	216200	208200
28	103400	103600	103400	127200	114400	225600	215300	216200	205000	209700	214100	207300
29	103400	104800	104200	125000	---	224100	216800	212600	205800	211700	212900	208200
30	103000	106800	104400	122300	---	223800	215900	208800	207000	212600	209400	208500
31	102000	---	104600	121800	---	223500	---	207600	---	213200	209100	---
MAX	103400	107500	106800	127200	127400	229300	230300	245400	217100	214400	216200	209400
MIN	99180	103400	102400	103800	105200	119600	201500	205600	203500	206400	204100	204100
(†)	255.03	255.27	255.16	255.97	255.63	259.82	259.57	259.29	259.27	259.48	259.34	259.32
(‡)	-400	+4800	-2200	+17200	-7400	+109100	-7600	-8300	-600	+6200	-4100	-600

CAL YR 1977 MAX 497500 MIN 99180 ‡ -102700
WTR YR 1978 MAX 245400 MIN 99180 ‡ +106100

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

07341301 LITTLE RIVER AT MILLWOOD DAM, NEAR ASHDOWN, AR

LOCATION.--Lat 33°41'28", long 93°57'53", in NW¼ sec.26, T.12 S., R.28 W., Little River County, Hydrologic Unit 11140109, at Millwood Dam, 9.2 mi (14.8 km) east of Ashdown, 9.6 mi (15.4 km) upstream from Hudson Creek, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--4,119 mi^2 (10,670 km^2) (revised).

PERIOD OF RECORD.--October 1966 to current year. Records for October 1965 to September 1966, published in WRD Ark., 1968, are unreliable and should not be used.

REVISED RECORDS.--WRD Ark. 1969: 1967-68.

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

REMARKS.--Discharge computations based on gate openings, and head and tailwater elevations at Millwood Dam. Flow completely regulated by Millwood Lake since Aug. 16, 1966 (see station 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--12 years, 6,261 ft^3/s (177 m^3/s), 4,536,000 acre-ft/yr (5,590 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 67,300 ft^3/s (1,910 m^3/s) May 13, 1973, no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17,300 ft^3/s (490 m^3/s) May 9; minimum daily, 160 ft^3/s (4.53 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	770	964	160	4530	1350	12700	4860	1960	160	165	1020
2	185	1210	1490	160	4530	160	11000	4860	1960	160	165	706
3	185	1210	1490	160	4380	160	10500	6630	1920	160	530	706
4	169	1210	1490	160	3880	160	9000	11100	1920	160	792	706
5	160	1210	1490	160	3680	160	6390	14000	1610	160	792	559
6	160	1210	1380	160	2560	160	5520	14500	1420	160	792	276
7	160	1210	647	160	1990	160	5520	15200	1450	160	792	160
8	160	1210	253	160	1990	3360	5520	16700	1700	160	792	160
9	160	1210	160	160	1990	10600	5520	17300	1940	160	505	160
10	160	1210	160	160	1990	14600	4170	16800	1970	580	318	160
11	160	890	160	252	2020	14900	3230	16800	2010	935	226	160
12	160	622	160	559	2070	12700	5950	14500	2010	935	165	160
13	160	622	410	583	2800	8520	10900	11600	2470	935	165	160
14	160	622	622	583	3540	6390	11500	11600	3550	518	165	160
15	160	622	622	656	3540	7320	9990	11200	4010	165	165	160
16	160	622	622	1090	3640	7490	9480	8600	3390	165	165	160
17	160	622	622	2810	3390	7610	6020	6120	2900	165	165	160
18	160	622	622	3820	3230	7590	4040	3690	2900	165	165	160
19	160	622	622	4130	3550	7490	4040	1220	1740	165	165	160
20	160	622	622	4130	3480	7080	4040	923	273	165	165	160
21	160	622	365	4130	4140	6000	4040	923	160	165	165	160
22	160	622	196	4130	4530	5920	4040	944	160	165	165	160
23	160	622	173	4130	4460	3300	3870	923	160	165	165	160
24	160	622	160	4100	3930	6210	3670	2140	160	165	165	160
25	160	622	160	4030	3300	10500	5930	3960	160	165	165	160
26	160	622	160	4240	3270	10700	8590	4310	160	165	165	160
27	160	622	160	4670	3180	13600	6240	3410	160	165	165	160
28	241	478	160	4760	3170	15800	4780	3410	160	165	926	160
29	294	294	160	4660	---	15400	4860	3410	160	165	2330	160
30	294	294	160	4660	---	15400	4860	3370	160	165	2900	160
31	213	---	160	4590	---	15400	---	2510	---	165	1980	---
TOTAL	5446	23568	16622	68313	92760	236190	195910	237513	44703	8148	16645	7813
MEAN	176	786	536	2204	3313	7619	6530	7662	1490	263	537	260
MAX	294	1210	1490	4760	4530	15800	12700	17300	4010	935	2900	1020
MIN	160	294	160	160	1990	160	3230	923	160	160	165	160
AC-FT	10800	46750	32970	135500	184000	468500	388600	471100	88670	16160	33020	15500

CAL YR 1977 TOTAL 1736448 MEAN 4757 MAX 34500 MIN 160 AC-FT 3444000
WTR YR 1978 TOTAL 953631 MEAN 2613 MAX 17300 MIN 160 AC-FT 1892000

07341500 RED RIVER AT FULTON, AR

LOCATION.--Lat 33°36'26", long 93°48'56", in NE¼SE¼ sec.20, T.13 S., R.26 W., Hempstead-Miller County line, Hydrologic Unit 11140201, near left bank on downstream side of bridge on U.S. Highway 67 at Fulton, 0.2 mi (0.3 km) downstream from Missouri Pacific Railroad Co. bridge, 2.5 mi (4.0 km) downstream from Little River, and at mile 463.0 (745.0 km).

DRAINAGE AREA.--52,336 mi^2 (135,550 km^2), of which 5,936 mi^2 (15,374 km^2) is probably noncontributing.

PERIOD OF RECORD.--October 1927 to current year. January 1932 to May 1934 monthly discharge only, published in WSP 1311. Prior to October 1949, published as "at Garland." Gage heights collected in the present vicinity since October 1885 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Sept. 30, 1949, water-stage recorder, at Garland 39.0 mi (62.8 km) downstream at different datum. Oct. 1, 1949, to Dec. 31, 1966, nonrecording gage at present site. Oct. 1, 1949, to Dec. 31, 1976, at datum 224.94 ft (68.562 km) higher.

REMARKS.--Some regulation by Lake Texoma (Texas), 263 mi (423 km) upstream, capacity, 5,530,300 acre-ft (6,820 hm^3), since Oct. 31, 1943, and by Millwood Lake since Aug. 16, 1966 (see station 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--51 years, 17,460 ft^3/s (494 m^3/s), 12,650,000 acre-ft/yr (15,600 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 338,000 ft^3/s (9,570 m^3/s) Feb. 24, 1938, elevation, 261.39 ft (79.672 m), present site and datum; maximum elevation, 262.3 ft (79.95 m) Apr. 2, 1945, present site and datum; minimum discharge, 390 ft^3/s (11.0 m^3/s) Oct. 26, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,000 ft^3/s (1,390 m^3/s) Mar. 28, elevation, 239.70 ft (73.061 m); minimum daily, 1,200 ft^3/s (34.0 m^3/s) Oct. 22-26, Dec. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3600	3600	3200	1400	5300	7500	37000	8200	3700	13000	2100	4300
2	2500	4500	3400	1700	5300	5600	25000	6900	3200	8900	2200	3600
3	2700	4900	3300	1600	5200	5100	20000	7200	5200	5800	1700	3300
4	3600	4500	3200	1600	4200	4200	17000	11000	8700	4300	2400	3400
5	3400	3800	3100	1700	3600	4400	14000	20000	9000	4100	2300	4200
6	3200	4000	3100	1800	3700	4700	12000	28000	7100	3500	2500	4600
7	2900	5300	3100	1800	2500	4400	9800	36000	6400	3600	2400	3900
8	2800	5800	2800	2100	2000	5400	8600	33000	8000	3900	2800	3200
9	2400	5100	2300	2300	1900	13000	8800	36000	12000	3600	2200	2400
10	2300	4000	2300	1700	1600	19000	11000	35000	13000	2600	2200	2200
11	2200	3500	2200	2200	1700	18000	8200	31000	27000	2600	1900	2200
12	2300	3100	2300	1900	1600	19000	7100	28000	33000	2400	1700	2300
13	2300	3100	3300	2300	2700	20000	12000	20000	34000	2100	1900	2900
14	2300	3400	3600	2500	4800	15000	15000	19000	32000	2200	1900	2900
15	1700	3600	3000	2900	4900	15000	15000	17000	32000	1800	2000	2900
16	1600	3400	2500	4000	5200	13000	16000	14000	32000	3100	2300	2900
17	1500	3100	2700	4100	12000	10000	17000	8900	28000	3200	2800	2500
18	1300	3200	2500	7300	13000	9200	13000	7900	24000	3200	2500	3000
19	1300	3100	2200	8300	13000	8500	12000	4200	21000	3200	2100	3200
20	1300	3000	2100	8900	10000	8100	10000	3000	18000	2700	2300	3300
21	1300	3400	1900	9200	8500	7400	8800	2800	18000	2700	2400	3600
22	1200	3400	1800	9700	8500	7200	7900	3400	18000	2500	3300	3300
23	1200	3200	1700	9400	8000	8500	7400	3500	18000	2000	3100	2900
24	1200	3100	1500	7700	7600	5400	6400	3700	17000	2100	3500	2700
25	1200	3100	1400	8800	6800	13000	6500	5400	17000	2100	3800	2500
26	1200	3100	1300	10000	6800	26000	10000	6600	16000	2300	3800	2800
27	1900	2900	1200	10000	6800	40000	9600	6000	14000	1800	3400	2900
28	2500	2800	1400	9300	6900	49000	7200	6500	14000	1700	3300	2600
29	2600	2800	1700	8400	---	43000	7900	7300	14000	1700	4200	2500
30	2800	2900	2100	7000	---	39000	8800	7700	14000	1800	5300	2300
31	2900	---	2400	5700	---	39000	---	6800	---	1700	5300	---
TOTAL	67200	108700	74700	157300	164100	486700	369000	434000	517300	102200	85600	91300
MEAN	2168	3623	2410	5074	5861	15700	12300	14000	17240	3297	2761	3043
MAX	3600	5800	3600	10000	13000	49000	37000	36000	34000	13000	5300	4600
MIN	1200	2800	1200	1400	1600	4200	6400	2800	3200	1700	1700	2200
AC-FT	133300	215600	148200	312000	325500	965400	731900	860800	1026000	202700	169800	181100

CAL YR 1977	TOTAL	4827700	MEAN	13230	MAX	104000	MIN	1200	AC-FT	9576000
WTR YR 1978	TOTAL	2658100	MEAN	7282	MAX	49000	MIN	1200	AC-FT	5272000

07341500 RED RIVER AT FULTON, AR--Continued
(National stream-quality accounting station)

PERIOD OF RECORD.--Water years 1947, 1952-61.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1946 to September 1947, October 1952 to September 1961.
WATER TEMPERATURES: October 1946 to September 1947, October 1952 to September 1961.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,210 micromhos Oct. 5, 1956; minimum, 49 micromhos Mar. 8, 1953.
WATER TEMPERATURES: Maximum, 31.0°C July 30, 1955; minimum, 1.0°C Jan. 28, 29, 1961.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)
JAN												
25...	1028	1028	8800	1070	7.4	2.5	--	13.0	98	K67	1400	230
FEB												
24...	1028	1028	7600	474	7.6	5.5	--	11.6	94	K7	760	110
MAR												
28...	1028	1028	--	--	--	--	--	--	--	--	--	--
28...	1028	1028	49000	235	7.9	13.5	--	9.8	97	K250	540	69
APR												
27...	1028	1028	9600	215	7.8	19.5	--	9.0	100	K33	K28	62
JUN												
01...	1028	1028	3700	355	7.6	27.0	140	6.6	84	K50	K40	100
30...	1028	1028	14000	1920	6.9	32.0	55	7.2	94	K7	<11	420
JUL												
27...	1028	1028	3400	1500	7.5	30.0	21	8.1	108	K49	K67	360
AUG												
24...	1028	1028	2700	1700	7.1	30.0	35	7.0	93	80	88	340

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JAN												
25...	150	60	19	130	55	3.7	4.5	91	0	75	5.8	150
FEB												
24...	53	30	8.2	48	48	2.0	3.3	68	0	56	2.7	55
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	10	20	4.7	18	35	.9	2.7	72	0	59	1.5	26
APR												
27...	14	18	4.2	17	36	.9	1.9	59	0	48	1.5	20
JUN												
01...	40	31	6.6	32	39	1.4	2.6	--	--	65	--	37
30...	320	110	35	250	56	5.3	6.7	--	--	100	--	280
JUL												
27...	230	97	28	180	52	4.1	5.7	--	--	130	--	260
AUG												
24...	220	89	28	230	59	5.4	6.9	--	--	120	--	240

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
JAN												
25...	200	.2	5.7	645	614	.88	15300	.21	.10	.27	.37	.00
FEB												
24...	75	.1	5.3	271	258	.37	5560	.34	.15	.54	.69	.24
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	21	.2	5.6	126	134	.17	16700	.30	.21	1.9	2.1	.20
APR												
27...	23	.1	5.8	115	119	.16	2980	.06	.11	.56	.67	.28
JUN												
01...	48	.2	5.3	200	202	.27	2000	.32	.04	--	--	--
30...	410	.4	5.4	1190	1160	1.62	45000	.00	.00	.96	.96	.13
JUL												
27...	260	.3	8.3	858	918	1.17	7880	.02	.00	1.0	1.0	.29
AUG												
24...	330	.3	6.2	1030	1000	1.40	7510	.01	.05	1.1	1.1	.52

07341500 RED RIVER AT FULTON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
JAN												
25...	.37	.58	2.6	.12	.06	1	0	1	100	0	100	3
FEB												
24...	.45	1.0	4.6	.13	.07	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	1.9	2.4	11	.40	.03	--	--	--	--	--	--	--
APR												
27...	.39	.73	3.2	.04	.00	2	2	0	100	0	100	1
JUN												
01...	.58	--	--	.16	.02	--	--	--	--	--	--	--
30...	.83	.96	4.3	.14	.03	--	--	--	--	--	--	--
JUL												
27...	.71	1.0	4.5	.06	.00	3	1	2	200	0	200	0
AUG												
24...	.58	1.1	4.9	.11	.02	--	--	--	--	--	--	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)
JAN											
25...	0	3	10	10	0	0	0	0	25	17	8
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
27...	0	1	0	0	0	0	0	0	4	0	4
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	0	0	10	10	0	0	0	0	7	4	3
AUG											
24...	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
JAN									
25...	1300	--	20	7	5	2	90	50	40
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
28...	--	--	--	--	--	--	--	--	--
APR									
27...	750	--	120	2	0	2	130	120	10
JUN									
01...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUL									
27...	900	870	30	4	4	0	160	150	10
AUG									
24...	--	--	--	--	--	--	--	--	--

07341500 RED RIVER AT FULTON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG) (01076)	SILVER, DISSOLVED (UG/L AS AG) (01075)
JAN									
25...	.1	.1	.0	0	0	0	0	0	0
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
28...	--	--	--	--	--	--	--	--	--
APR									
27...	.0	.0	.0	0	0	0	0	0	0
JUN									
01...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUL									
27...	.0	.0	.0	0	0	0	0	0	0
AUG									
24...	--	--	--	--	--	--	--	--	--

DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN									
25...	40	20	20	--	8.2	1.5	154	3660	42
FEB									
24...	--	--	--	8.5	--	--	--	--	--
MAR									
28...	--	--	--	15	--	--	749	99100	89
APR									
27...	10	0	10	--	5.5	1.6	78	2020	42
JUN									
01...	--	--	--	11	--	--	271	2710	75
30...	--	--	--	7.9	--	--	475	18000	46
JUL									
27...	20	10	10	--	6.5	1.3	627	5760	7
AUG									
24...	--	--	--	8.8	--	--	--	--	--

07341500 RED RIVER AT FULTON, AR--CONTINUED

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

PHYTOPLANKTON

DATE	MAR 28,78		JUN 1,78		JUN 22,78		JUL 27,78	
TIME	1200		1030		1215		1200	
TOTAL CELLS/ML	5600		5000		27000		280000	
DIVERSITY: DIVISION	0.8		1.5		0.9		0.4	
.CLASS	0.8		1.6		0.9		0.4	
..ORDER	0.9		1.9		1.7		1.3	
...FAMILY	1.0		2.7		2.4		1.9	
....GENUS	2.0		3.3		3.2		2.5	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....DICHOTOMOCOCCUS	--	-	--	-	250	1	--	-
...CHARACIACEAE								
....SCHROEDERIA	--	-	33	1	*	0	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	620	12	3300	12	4800	2
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	520	10	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	90	2	98	2	540	2	8400	3
....DICTYOSPHAERIUM	--	-	--	-	690	3	*	0
....KIRCHNERIELLA	*	0	--	-	--	-	*	0
....NEPHROCYTIUM	--	-	65	1	--	-	--	-
....OOCYSTIS	--	-	730	15	1400	5	1500	1
....SELENASTRUM	--	-	--	-	*	0	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	*	0	--	-
....SCENEDESMUS	45	1	130	3	380	1	*	0
....TETRASTRUM	--	-	--	-	*	0	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	33	1	*	0	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	*	0	--	-
....CHLAMYDOMONAS	--	-	33	1	--	-	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	*	0	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...CHAETOCERACEAE								
....CHAETOCEROS	--	-	--	-	--	-	*	0
...COSCINODISCACEAE								
....COSCINODISCUS	--	-	33	1	--	-	--	-
....CYCLOTELLA	220	4	240	5	*	0	--	-
....MELOSIRA	250	4	1600#	31	*	0	--	-
..PENNALES								
...FRAGILARIACEAE								
....FRAGILARIA	*	0	--	-	--	-	*	0
....SYNEDRA	--	-	98	2	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	45	1	--	-	--	-	--	-
...NAVICULACEAE								
....GYROSIGMA	*	0	--	-	--	-	--	-
....MASTOGLOIA	*	0	--	-	--	-	--	-
....NAVICULA	67	1	33	1	--	-	--	-
....PINNULARIA	*	0	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	110	2	--	-	380	1	*	0
...TABELLARIACEAE								
....TABELLARIA	--	-	65	1	--	-	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CHLOROTHECIACEAE								
....OPHIOCYTIUM	--	-	33	1	--	-	--	-

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

07341500 RED RIVER AT FULTON, AR--CONTINUED

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

PHYTOPLANKTON

DATE TIME	MAR 28,78 1200		JUN 1,78 1030		JUN 22,78 1215		JUL 27,78 1200	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCACEAE								
....AGMENELLUM	--	-	260	5	4000	15	66000#	24
....ANACYSTIS	--	-	310	6	2500	9	7200	3
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	82000#	30
....APHANIZOMENON	--	-	--	-	2000	7	--	-
....CYLINDROSPERMUM	--	-	--	-	500	2	15000	6
...OSCILLATORIACEAE								
....LYNGBYA	2700#	48	--	-	2000	7	--	-
....MICROCOLEUS	2000#	35	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	8800#	32	72000#	26
..CHROCCOCCALES								
...CHROCCOCCACEAE								
....GOMPHOSPHAERIA	--	-	--	-	--	-	15000	5
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	49	1	--	-	--	-
....TRACHELOMONAS	--	-	49	1	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...PERIDINIACEAE								
....PERIDINIUM	--	-	*	0	--	-	--	-

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
MAR. 28	62	.394	.157	.237	.280	.000	.846	POLYETHYLENE STRIP

07341500 RED RIVER AT FULTON, AR--CONTINUED

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							---	---	---	1510	1380	1470
2							---	---	---	1630	1510	1550
3							---	---	---	1660	1600	1640
4							---	---	---	1670	1620	1650
5							---	---	---	1850	1680	1740
6							---	---	---	1910	1780	1830
7							---	---	---	1910	1830	1870
8							---	---	---	1870	1760	1810
9							---	---	---	1790	1710	1750
10							---	---	---	1750	1560	1660
11							---	---	---	1670	1520	1610
12							---	---	---	1660	1630	1650
13							---	---	---	1660	1610	1640
14							---	---	---	1670	1630	1650
15							---	---	---	1710	1660	1690
16							---	---	---	1750	1700	1720
17							---	---	---	1750	1660	1710
18							---	---	---	1800	1670	1710
19							---	---	---	1840	1760	1810
20							---	---	---	1920	1840	1870
21							---	---	---	1960	1860	1910
22							---	---	---	1960	1880	1930
23							---	---	---	1960	1850	1910
24							---	---	---	1890	1600	1750
25							1960	1740	1860	1590	1460	1510
26							1970	1740	1840	1810	1480	1660
27							1890	1630	1820	1820	1730	1780
28							1910	1570	1800	1880	1690	1830
29							1560	1380	1480	1650	1380	1460
30							1370	1240	1270	1490	1420	1460
31							1340	1190	1230	---	---	---
MONTH							1970	1190	1610	1960	1380	1710

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							---	---	---	28.0	25.5	26.5
2							---	---	---	27.5	26.5	27.0
3							---	---	---	29.0	26.0	27.5
4							---	---	---	30.0	27.0	28.5
5							---	---	---	30.0	28.0	29.0
6							---	---	---	30.0	28.5	29.0
7							---	---	---	30.0	28.0	29.0
8							---	---	---	29.5	27.5	28.5
9							---	---	---	29.5	27.5	28.5
10							---	---	---	29.5	27.5	28.5
11							---	---	---	27.0	25.5	26.5
12							---	---	---	26.5	25.5	26.0
13							---	---	---	27.0	25.0	26.0
14							---	---	---	27.5	25.5	26.5
15							---	---	---	28.0	26.0	27.0
16							---	---	---	28.5	27.0	28.0
17							---	---	---	28.5	27.0	28.0
18							---	---	---	28.5	26.5	27.5
19							---	---	---	29.0	27.0	28.0
20							---	---	---	29.0	27.0	28.0
21							---	---	---	29.0	27.0	28.0
22							---	---	---	27.5	25.5	26.0
23							---	---	---	25.5	24.5	25.0
24							---	---	---	25.0	24.0	24.5
25							34.0	32.0	33.0	24.0	22.5	23.5
26							33.0	30.5	31.5	23.5	22.5	23.0
27							31.5	29.5	30.5	23.5	22.5	23.0
28							30.5	29.0	29.5	23.5	22.5	23.0
29							29.5	26.0	27.0	23.5	22.0	23.0
30							27.5	25.5	26.5	25.5	18.5	22.0
31							27.5	25.5	26.5	---	---	---
MONTH							34.0	25.5	29.0	30.0	18.5	26.5

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR

LOCATION.--Lat 33°14'32", long 93°59'58", in SE¼SE¼ sec.28, T.17 S., R.28 W., Miller County, Hydrologic Unit 11140302, at bridge on State Highway 237, 13.5 mi (21.7 km) south of Texarkana.

DRAINAGE AREA.--3,540 mi² (9,170 km²).

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Additional records furnished by Corps of Engineers, New Orleans, La.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
OCT											
04...	810	--	200	7.8	22.5	--	4.4	--	--	--	--
10...	9827	9827	253	7.9	20.0	15	6.0	65	1.9	1000	380
10...	810	--	200	7.9	22.5	--	5.9	--	--	--	--
10...	810	--	200	7.9	22.5	--	5.9	--	--	--	--
20...	810	--	600	7.4	18.5	--	5.7	--	--	--	--
20...	810	--	600	7.4	18.5	--	2.5	--	--	--	--
25...	810	--	400	7.9	20.5	--	6.2	--	--	--	--
25...	810	--	400	7.8	20.5	--	6.1	--	--	--	--
25...	810	--	400	7.7	20.5	--	6.0	--	--	--	--
25...	810	--	400	7.6	20.5	--	6.0	--	--	--	--
NOV											
01...	810	--	200	7.9	21.0	--	6.6	--	--	--	--
01...	810	--	200	7.9	21.0	--	6.5	--	--	--	--
01...	810	--	200	7.8	21.0	--	6.5	--	--	--	--
01...	810	--	200	7.8	21.0	--	6.5	--	--	--	--
07...	810	--	200	7.8	19.0	--	5.9	--	--	--	--
07...	9827	9827	282	7.3	18.0	30	6.4	67	2.4	1400	53
07...	810	--	200	7.6	19.0	--	5.8	--	--	--	--
15...	810	--	200	7.3	14.0	--	8.1	--	--	--	--
15...	810	--	200	7.3	14.0	--	8.2	--	--	--	--
15...	810	--	--	7.3	14.0	--	8.1	--	--	--	--
22...	810	--	200	7.4	15.0	--	5.6	--	--	--	--
22...	810	--	200	7.3	15.0	--	5.6	--	--	--	--
DEC											
05...	9827	9827	397	7.4	12.0	100	8.6	80	2.8	590	60
07...	810	--	200	7.6	10.0	--	7.9	--	--	--	--
07...	810	--	200	7.5	10.0	--	8.3	--	--	--	--
12...	810	--	200	7.4	8.5	--	7.9	--	--	--	--
20...	810	--	200	7.6	10.0	--	6.7	--	--	--	--
20...	810	--	200	7.6	10.0	--	6.7	--	--	--	--
28...	810	--	100	8.2	5.0	--	8.1	--	--	--	--
JAN											
04...	810	--	100	7.7	3.5	--	9.5	--	--	--	--
09...	9827	9827	298	7.7	4.0	35	10.1	77	2.0	360	25
10...	810	--	200	8.3	4.0	--	11.4	--	--	--	--
17...	810	--	100	7.8	2.0	--	9.6	--	--	--	--
24...	810	--	200	7.2	1.0	--	8.5	--	--	--	--
24...	810	--	200	7.2	1.0	--	8.5	--	--	--	--
24...	810	--	200	7.2	1.0	--	8.4	--	--	--	--
FEB											
02...	810	--	100	7.4	1.5	--	8.6	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
10...	96	30	4.0	22	4.4	64	10	24	193	19
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
NOV										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	27	--	33
07...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	29	56	264	21
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	--	--	--	--	--	--	--	--	--
09...	66	18	4.0	20	3.3	56	18	--	184	38
10...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
10...	<.01	<.05	.01	.32	.12	<10	20	10	<100	20
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
NOV										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	<.05	<.05	<.05	.26	.10	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	<.05	<.05	<.05	.35	.16	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	--	--	--	--	--	--	--	--	--
09...	.06	<.05	.07	.08	1.5	<10	<5	20	2000	20
10...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
10...	170	20	.00	.00	.00	.00	.00	.00	.00	0
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
NOV										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN										
04...	--	--	--	--	--	--	--	--	--	--
09...	320	20	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
FEB											
02...	810	--	100	7.4	1.5	--	8.6	--	--	--	--
02...	810	--	100	7.4	1.5	--	8.6	--	--	--	--
06...	9827	9827	227	7.7	1.0	30	13.9	98	4.6	260	15
06...	810	--	100	7.3	3.0	--	9.0	--	--	--	--
06...	810	--	100	7.3	3.0	--	9.0	--	--	--	--
06...	810	--	100	7.3	3.0	--	9.0	--	--	--	--
14...	810	--	100	7.7	5.0	--	10.1	--	--	--	--
14...	810	--	100	7.7	5.0	--	10.1	--	--	--	--
14...	810	--	100	7.7	5.0	--	10.1	--	--	--	--
14...	810	--	100	7.7	5.0	--	10.1	--	--	--	--
22...	810	--	100	7.7	3.0	--	8.2	--	--	--	--
22...	810	--	100	7.7	3.0	--	8.2	--	--	--	--
22...	810	--	100	7.7	3.0	--	7.9	--	--	--	--
22...	810	--	100	7.7	3.0	--	7.9	--	--	--	--
28...	810	--	200	7.2	6.0	--	10.6	--	--	--	--
MAR											
06...	9827	9827	206	7.5	7.0	80	11.2	92	3.3	20	7
08...	810	--	200	7.8	8.0	--	12.2	--	--	--	--
08...	810	--	200	7.8	7.5	--	12.0	--	--	--	--
08...	810	--	200	7.8	7.5	--	11.6	--	--	--	--
14...	810	--	200	8.0	10.5	--	10.8	--	--	--	--
14...	810	--	200	8.0	10.0	--	10.5	--	--	--	--
14...	810	--	200	7.9	10.8	--	10.4	--	--	--	--
21...	810	--	200	7.9	15.5	--	7.8	--	--	--	--
21...	810	--	200	7.9	15.5	--	7.8	--	--	--	--
21...	810	--	200	7.9	15.5	--	7.9	--	--	--	--
30...	810	--	200	7.4	14.5	--	8.1	--	--	--	--
30...	810	--	200	7.4	14.5	--	7.9	--	--	--	--
30...	810	--	200	7.4	14.5	--	8.0	--	--	--	--
30...	810	--	200	7.3	14.5	--	8.0	--	--	--	--
APR											
04...	810	--	200	8.1	19.0	--	7.0	--	--	--	--
10...	810	--	200	8.0	21.0	--	5.3	--	--	--	--
18...	9827	9827	235	7.4	20.0	70	3.2	35	>3.2	20	13
19...	810	--	200	8.2	19.5	--	3.3	--	--	--	--
27...	810	--	200	7.6	22.0	--	3.4	--	--	--	--
MAY											
01...	9827	9827	235	7.2	21.0	80	3.1	34	2.0	250	40
04...	810	--	200	7.9	14.5	--	5.7	--	--	--	--
09...	810	--	300	7.6	21.5	--	7.2	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)
FEB										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	23	22	148	14
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	23	19	174	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
18...	48	5.9	4.6	17	3.7	60	--	23	169	150
19...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	20	26	176	183
04...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
FEB										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
06...	.02	.01	.03	.10	.10	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	.21	.03	.24	.15	.24	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
18...	.11	.03	.14	.34	--	<10	40	40	7500	20
19...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	.08	.03	.11	.32	.25	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
FEB										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	.00	.00	.00	.00	.00	.00	.00	0
08...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
18...	460	50	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)
MAY											
16...	810	--	100	6.7	22.0	--	3.3	--	--	--	--
16...	810	--	100	6.7	22.0	--	3.1	--	--	--	--
22...	810	--	200	6.8	26.0	--	4.1	--	--	--	--
22...	810	--	200	6.7	25.0	--	2.3	--	--	--	--
31...	810	--	400	7.1	31.5	--	7.8	--	--	--	--
31...	810	--	400	7.1	22.5	--	1.2	--	--	--	--
JUN											
05...	9827	9827	235	7.2	27.0	100	1.4	17	2.0	170	<10
06...	810	--	300	7.1	27.5	--	2.2	--	--	--	--
14...	810	--	400	7.3	27.5	--	1.7	--	--	--	--
22...	810	--	300	7.8	33.0	--	4.8	--	--	--	--
26...	9827	9827	337	7.2	32.0	50	4.5	61	--	520	7
28...	810	--	500	8.1	32.5	--	6.7	--	--	--	--
28...	810	--	500	8.0	31.0	--	5.7	--	--	--	--
JUL											
06...	810	--	600	8.1	31.0	--	5.2	--	--	--	--
12...	810	--	600	8.4	33.5	--	9.1	--	--	--	--
19...	810	--	600	8.3	32.5	--	6.1	--	--	--	--
25...	810	--	600	8.3	30.0	--	2.9	--	--	--	--
31...	9827	9827	425	7.5	30.0	50	2.6	34	3.5	--	200
AUG											
01...	810	--	500	7.5	30.0	--	2.5	--	--	--	--
01...	810	--	500	7.2	29.0	--	1.4	--	--	--	--
10...	810	--	600	7.7	28.0	--	2.6	--	--	--	--
15...	810	--	700	8.2	31.0	--	7.4	--	--	--	--
22...	810	--	500	7.3	30.5	--	3.7	--	--	--	--
28...	9827	9827	489	7.7	29.0	40	--	60	3.9	1200	360
30...	810	--	500	8.6	28.0	--	6.3	--	--	--	--
SEP											
04...	810	--	600	7.6	29.0	--	5.6	--	--	--	--
11...	810	--	500	6.9	27.0	--	4.3	--	--	--	--
19...	810	--	500	7.6	29.5	--	5.2	--	--	--	--
25...	9827	9827	518	7.5	21.0	20	4.1	46	3.2	1100	920

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	20	27	193	113	.03
06...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	19	42	231	83	.10
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
31...	140	41	6.0	35	4.3	88	24	--	296	121	.00
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	23	74	--	113	<.01
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	30	78	--	107	.05

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
MAY										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	.01	.09	.92	.40	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
26...	.05	.15	.92	.49	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
31...	.01	.21	.17	.44	<10	--	490	3900	70	630
AUG										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
28...	.01	.01	.23	3.1	--	30	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
SEP										
04...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	.01	.00	.46	.25	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
MAY										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
26...	--	--	.00	.00	.00	.00	.00	.00	.00	0
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
31...	<1.0	10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
30...	--	--	--	--	--	--	--	--	--	--
SEP										
04...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, AR

LOCATION.--Lat 33°19'06", long 94°00'16" (revised), in sec.33, T.16 S., R.28 W., Miller County, Hydrologic Unit 11140302, at bridge on State Highway 237, 4.4 mi (7.1 km) south of junction U.S. Highway 71 and State Highway 237, and 7.8 mi (12.6 km) southeast of Texarkana.

DRAINAGE AREA.--78.5 mi² (203 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
10...	9827	9827	4980	7.8	18.0	30	1.4	15	14	30	510	180
NOV												
07...	9827	9827	1180	7.1	19.0	50	2.7	29	9.5	1100	--	--
DEC												
05...	9827	9827	2930	6.9	13.0	20	4.5	42	11	50	--	--
JAN												
09...	9827	9827	1000	7.8	4.0	25	5.2	40	11	20	62	16
FEB												
06...	9827	9827	509	7.1	1.0	80	4.9	53	12	10	--	--
MAR												
06...	9827	9827	452	7.2	7.0	55	6.7	55	11	<7	--	--
APR												
18...	9827	9827	941	7.2	20.0	40	2.3	25	13	260	64	16
MAY												
01...	9827	9827	941	7.3	21.0	40	1.7	19	11	270	--	--
JUN												
05...	9827	9827	782	7.4	27.0	40	3.8	47	9.3	120	--	--
26...	9827	9827	1380	7.7	32.0	30	5.3	72	--	260	--	--
JUL												
31...	9827	9827	1750	7.7	31.0	40	2.8	37	13	410	120	39
AUG												
28...	9827	9827	2280	7.8	29.0	4	--	28	13	430	--	--
SEP												
25...	9827	9827	2210	7.6	22.0	40	2.5	28	13	750	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY AS (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
10...	15	530	33	41	26	--	2660	14	<.05	<.05	.05
NOV											
07...	--	--	--	--	--	310	--	38	.08	.08	.16
DEC											
05...	--	--	--	--	26	930	1700	34	.33	.14	.47
JAN											
09...	4.5	160	8.5	130	39	--	566	11	.06	<.05	.10
FEB											
06...	--	--	--	--	27	94	305	18	.37	.05	.42
MAR											
06...	--	--	--	--	28	110	271	--	.30	.05	.35
APR											
18...	4.8	140	7.6	110	--	240	498	10	.00	.01	.01
MAY											
01...	--	--	--	--	34	200	503	21	.04	.01	.05
JUN											
05...	--	--	--	--	50	160	422	19	--	.16	.14
26...	--	--	--	--	50	290	783	26	--	--	.15
JUL											
31...	5.0	310	14	130	57	--	982	24	.01	.01	.02
AUG											
28...	--	--	--	--	70	560	--	18	.03	.01	.04
SEP											
25...	--	--	--	--	58	550	--	17	.03	.01	.04

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
10...	20	4.0	24	24	106	4.4	<10	<5	10	970	20
NOV											
07...	9.2	--	7.3	7.5	33	1.6	<10	--	10	3200	--
DEC											
05...	5.0	.70	5.7	6.2	27	1.2	<10	--	<20	2000	--
JAN											
09...	22	--	15	15	67	2.5	<10	<5	<20	1200	20
FEB											
06...	5.5	--	5.3	5.7	25	.39	<10	--	20	2600	--
MAR											
06...	4.4	.70	5.1	5.5	24	3.8	<10	--	50	2000	--
APR											
18...	9.5	1.5	11	11	45	--	<10	<5	40	1300	10
MAY											
01...	8.8	--	7.7	7.8	34	1.7	<10	--	30	1400	--
JUN											
05...	4.3	--	--	--	--	3.3	<10	--	<20	1800	--
26...	3.4	2.0	5.4	5.6	25	1.0	<10	--	30	1200	--
JUL											
31...	7.5	14	21	21	93	3.0	<10	--	530	910	120
AUG											
28...	17	5.0	22	22	98	3.0	<10	<5	20	580	--
SEP											
25...	15	3.0	19	19	84	5.4	<10	--	20	680	--

DATE	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)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT											
10...	1200	--	50	--	--	--	--	--	--	--	--
NOV											
07...	670	--	40	.00	.00	.00	.00	.00	.00	.00	0
DEC											
05...	1200	--	450	--	--	--	--	--	--	--	--
JAN											
09...	550	--	240	--	--	--	--	--	--	--	--
FEB											
06...	550	--	50	--	--	--	--	--	--	--	--
MAR											
06...	670	--	80	--	--	--	--	--	--	--	--
APR											
18...	540	--	30	--	--	--	--	--	--	--	--
MAY											
01...	730	--	20	--	--	--	--	--	--	--	--
JUN											
05...	530	--	40	--	--	--	--	--	--	--	--
26...	460	--	250	--	--	--	--	--	--	--	--
JUL											
31...	320	<1.0	20	--	--	--	--	--	--	--	--
AUG											
28...	340	--	<10	--	--	--	--	--	--	--	--
SEP											
25...	--	--	<10	--	--	--	--	--	--	--	--

07344340 SULPHUR RIVER NEAR FORT LYNN, AR

LOCATION.--Lat 33°08'58", long 93°53'31", in NE¼ sec.33, T.18 S., R.27 W., Miller County, Hydrologic Unit 11140302, at bridge on U.S. Highway 71, 1.2 mi (1.9 km) south of Fort Lynn.

DRAINAGE AREA.--3,742 mi² (9,692 km²).

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

REMARKS.--Temperatures rounded to the nearest 0.5°C by Geological Survey.

COOPERATION.--Records furnished by Corps of Engineers, New Orleans, La.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
04...	810	2.0	300	7.5	25.0	6.1
04...	810	5.0	300	7.5	24.5	6.4
10...	810	2.0	300	7.7	21.5	6.7
10...	810	5.0	300	7.7	21.5	6.7
20...	810	2.0	600	7.4	17.5	4.6
20...	810	5.0	600	7.4	17.5	4.8
25...	810	2.0	400	7.8	20.5	6.1
25...	810	5.0	400	7.7	20.5	6.0
25...	810	10	400	7.6	20.5	6.0
25...	810	15	400	7.6	20.5	6.0
NOV						
01...	810	2.0	200	7.9	21.0	6.5
01...	810	5.0	200	7.8	21.0	6.5
01...	810	10	200	7.9	21.0	6.4
01...	810	15	200	7.8	21.0	6.4
01...	810	20	200	7.7	21.0	6.4
07...	810	2.0	300	7.7	19.0	6.1
07...	810	5.0	300	7.7	19.0	5.7
07...	810	10	300	7.6	18.5	5.6
15...	810	2.0	200	7.5	14.0	8.0
22...	810	2.0	300	7.4	14.5	6.8
22...	810	5.0	300	7.4	15.0	7.0
22...	810	10	300	7.4	15.0	.0
22...	810	15	300	7.3	15.0	6.0
22...	810	20	300	7.3	15.0	5.4
22...	810	25	300	7.3	15.0	5.4
DEC						
07...	810	2.0	200	7.7	9.5	7.4
07...	810	5.0	200	7.6	9.5	7.3
07...	810	10	200	7.6	9.5	7.3
07...	810	15	200	7.6	9.5	7.3
07...	810	20	200	7.6	9.5	8.4
07...	810	25	200	7.6	9.5	7.2
12...	810	2.0	200	7.4	8.0	8.0
12...	810	5.0	200	7.3	8.0	9.4
12...	810	10	200	7.3	8.0	8.8
12...	810	15	200	7.3	8.0	8.4
12...	810	20	200	7.3	8.0	7.0
20...	810	2.0	200	7.6	10.0	7.0
20...	810	5.0	200	7.6	10.0	7.0
20...	810	10	200	7.6	10.0	7.4
20...	810	15	200	7.6	10.5	7.6
20...	810	20	200	7.6	10.5	7.7
28...	810	2.0	300	7.5	5.5	7.4
28...	810	5.0	300	7.5	5.5	7.3
JAN						
04...	810	2.0	200	7.7	3.5	10.5
04...	810	5.0	200	7.6	3.5	10.6
04...	810	10	200	7.6	3.5	11.1
04...	810	15	200	7.6	3.5	11.4
04...	810	20	200	7.5	3.5	8.9
10...	810	2.0	300	7.6	4.5	7.8
10...	810	5.0	300	7.5	4.0	7.2
18...	810	2.0	200	7.4	2.5	11.3
18...	810	5.0	200	7.4	2.5	11.1
18...	810	10	200	7.4	2.5	11.2
18...	810	15	200	7.4	2.5	11.0
24...	810	2.0	200	7.1	1.5	8.0
24...	810	5.0	200	7.2	1.5	8.1
FEB						
02...	810	2.0	100	7.4	1.5	8.5
06...	810	2.0	200	7.5	3.0	9.9
06...	810	5.0	200	7.5	3.0	9.9
06...	810	10	200	7.5	3.0	9.9
14...	810	2.0	100	7.8	6.0	10.8
14...	810	5.0	100	7.7	9.0	10.6
22...	810	2.0	100	7.6	3.0	8.8
22...	810	5.0	100	7.5	3.0	8.8
22...	810	10	100	7.5	3.0	8.8
28...	810	2.0	200	7.4	6.0	10.2

07344340 SULPHUR RIVER NEAR FORT LYNN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR						
08...	810	2.0	200	7.7	8.5	12.3
08...	810	5.0	200	7.7	8.0	11.8
14...	810	2.0	200	7.9	11.0	11.1
14...	810	5.0	200	7.9	10.5	10.2
21...	810	2.0	200	7.8	15.5	8.0
21...	810	5.0	200	7.8	15.5	7.4
21...	810	10	200	7.7	15.5	7.4
21...	810	15	200	7.7	15.5	7.3
30...	810	2.0	200	7.2	16.0	7.2
30...	810	5.0	200	7.3	16.0	7.5
30...	810	10	200	7.2	16.0	7.5
APR						
04...	810	2.0	200	8.0	19.0	7.7
10...	810	2.0	200	8.0	21.5	5.4
19...	810	2.0	300	8.1	21.0	3.0
19...	810	5.0	300	7.9	21.0	2.8
19...	810	10	300	7.8	21.0	2.4
19...	810	15	300	7.7	20.0	1.0
19...	810	20	300	7.7	19.5	.8
27...	810	2.0	300	7.6	19.5	3.2
27...	810	5.0	200	7.5	19.5	3.0
27...	810	10	200	7.5	19.0	2.9
MAY						
04...	810	2.0	300	7.8	14.5	6.0
09...	810	2.0	300	7.7	21.5	7.2
15...	810	2.0	100	8.7	22.0	3.4
15...	810	5.0	100	8.7	21.5	3.2
15...	810	10	100	8.7	20.5	2.8
22...	810	2.0	300	8.3	26.5	2.5
22...	810	5.0	300	8.8	26.0	1.4
22...	810	10	300	8.3	24.0	1.1
31...	810	2.0	400	7.1	29.0	6.7
31...	810	5.0	400	7.1	27.0	3.4
JUN						
06...	810	2.0	700	7.0	28.5	8.1
06...	810	5.0	700	7.2	27.5	1.5
14...	810	2.0	600	7.2	28.0	5.3
14...	810	5.0	600	7.3	27.5	1.2
14...	810	10	600	7.3	25.0	.2
22...	810	2.0	800	8.6	34.0	8.1
28...	810	2.0	500	8.1	32.0	7.0
28...	810	5.0	500	8.1	31.0	6.2
JUL						
06...	810	2.0	1300	8.3	31.5	7.4
06...	810	5.0	1000	7.5	25.5	.4
06...	810	10	800	7.0	24.5	.2
12...	810	2.0	1100	7.3	30.5	2.0
12...	810	5.0	1000	7.1	27.5	.5
19...	810	2.0	1400	7.7	33.0	8.8
19...	810	5.0	1400	7.8	30.5	2.5
25...	810	2.0	1400	8.1	31.0	7.5
25...	810	5.0	1300	7.8	28.5	.8
AUG						
01...	810	2.0	1700	7.2	31.0	4.8
01...	810	5.0	1600	7.1	30.0	2.3
01...	810	10	1000	6.5	24.5	.2
10...	810	2.0	1300	7.3	28.5	5.8
10...	810	5.0	1300	7.2	28.5	3.5
15...	810	2.0	1500	8.2	29.5	5.4
22...	810	2.0	500	7.8	3.0	4.0
22...	810	5.0	500	7.8	30.5	3.9
30...	810	2.0	1500	8.2	27.5	5.9
30...	810	5.0	1500	8.2	27.0	5.7
SEP						
04...	810	2.0	1800	7.4	29.0	8.7
11...	810	2.0	500	7.0	26.5	4.7
19...	810	2.0	1400	7.9	28.0	6.6

07344350 RED RIVER NEAR SPRING BANK, AR

LOCATION.--Lat 33°05'29", long 93°51'38", in NW¼ sec.24, T.19 S., R.27 W., Miller County, Hydrologic Unit 11140201, at ferry landing, 1.8 mi (2.9 km) west of Spring Bank.

DRAINAGE AREA.--56,909 mi² (147,394 km²).

PERIOD OF RECORD.--October 1968 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
24...	9827	9827	1210	8.2	20.0	25	7.9	86	3.4	<13	1200	81
NOV												
21...	9827	9827	1220	7.8	15.0	20	9.3	91	3.4	150	--	--
DEC												
19...	9827	9827	1300	8.1	11.0	20	10.8	97	3.6	47	--	--
JAN												
23...	9827	9827	638	7.4	2.0	35	13.0	94	2.9	110	120	24
FEB												
21...	9827	9827	--	--	2.0	--	11.7	85	3.9	90	--	--
MAR												
20...	9827	9827	297	7.7	14.0	60	9.4	90	2.4	<7	--	--
20...	9827	9827	210	7.3	14.0	100	8.3	80	2.7	--	--	--
APR												
10...	9827	9827	366	7.7	20.0	60	8.4	91	2.3	20	68	12
MAY												
15...	9827	9827	252	7.7	22.0	--	7.8	86	2.0	20	--	--
JUN												
12...	9827	9827	1650	7.8	27.0	30	7.2	89	1.5	<25	--	--
JUL												
17...	9827	9827	1140	8.5	30.0	15	8.6	113	5.8	7	270	72
AUG												
14...	9827	9827	1520	8.3	29.0	10	7.7	99	3.5	560	--	--
SEP												
11...	9827	9827	1650	8.1	26.0	10	8.0	98	3.5	--	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
24...	25	120	4.7	240	96	200	742	31	<.05	<.05	<.05
NOV											
21...	--	--	--	--	--	230	726	35	<.05	<.05	<.05
DEC											
19...	--	--	--	--	100	260	778	28	<.05	<.05	<.05
JAN											
23...	13	72	3.8	56	86	110	393	40	1.5	<.05	.23
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	--	--	--	--	35	36	209	94	.26	.04	.30
20...	--	--	--	--	25	17	193	100	.29	.04	.33
APR											
10...	6.0	35	3.9	49	40	49	230	111	.12	.05	.17
MAY											
15...	--	--	--	--	29	31	176	109	.12	.05	.17
JUN											
12...	--	--	--	--	250	320	1030	611	.34	.06	.40
JUL											
17...	22	130	4.5	130	93	230	678	--	--	<.01	.02
AUG											
14...	--	--	--	--	88	280	945	31	.00	.01	.01
SEP											
11...	--	--	--	--	250	320	1040	24	--	--	--

07344350 RED RIVER NEAR SPRING BANK, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
24...	.10	.30	.40	--	--	.06	<10	<5	<10	1200	50
NOV											
21...	.06	1.3	1.4	--	--	.09	--	--	--	--	--
DEC											
19...	.09	1.0	1.1	--	--	.09	--	--	--	--	--
JAN											
23...	.08	--	--	--	--	.11	<10	<5	30	1700	20
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	.13	.97	1.1	1.4	6.2	.16	--	--	--	--	--
20...	.16	1.2	1.4	1.7	7.7	.23	--	--	--	--	--
APR											
10...	.35	.55	.90	1.1	4.7	.14	<10	20	<20	7300	20
MAY											
15...	6.0	--	--	--	--	.19	--	--	--	--	--
JUN											
12...	.18	--	--	--	--	.39	--	--	--	--	--
JUL											
17...	.10	.40	.50	.52	2.3	.12	<10	<5	30	820	70
AUG											
14...	.02	--	--	--	--	.08	--	--	--	--	--
SEP											
11...	--	--	.20	--	--	.20	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
24...	290	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	190	--	30	--	--	--	--	--	--	--	--
FEB											
21...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
APR											
10...	290	--	40	--	--	--	--	--	--	--	--
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
12...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL											
17...	280	2.7	10	.00	.00	.00	.00	.00	.00	.00	0
AUG											
14...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP											
11...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR

LOCATION.--Lat 33°05'53", long 93°22'53", in SE¼ sec.9, T.19 S., R.22 W., Columbia County, Hydrologic Unit 11140203, at bridge on State Highway 160, 4.4 mi (7.1 km) east of Taylor.

DRAINAGE AREA.--389 mi² (1,008 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT										
13...	1028	1028	327	7.3	12.0	--	9.2	88	--	--
NOV										
21...	9827	9827	388	6.7	14.0	55	4.3	41	>4.3	4000
22...	1028	1028	400	6.8	10.0	--	8.2	75	--	--
DEC										
19...	9827	9827	442	6.9	9.0	35	8.0	69	1.0	350
21...	1028	1028	400	7.0	9.5	--	8.2	74	--	--
JAN										
23...	9827	9827	264	6.3	1.0	50	12.1	85	3.9	440
FEB										
21...	9827	9827	272	6.3	1.0	40	11.9	84	2.2	100
MAR										
20...	9827	9827	266	6.2	13.0	50	7.6	72	2.0	240
APR										
10...	9827	9827	272	6.7	19.0	80	3.8	40	2.6	10
MAY										
15...	9827	9827	118	6.3	19.0	--	3.4	36	1.8	150
JUN										
12...	9827	9827	105	6.6	24.0	100	5.8	68	1.5	600

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
21...	1000	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
19...	77	--	--	--	--	--	--	--	--	--
21...	--	55	32	--	16	--	3.6	--	67	71
JAN										
23...	330	29	--	6.0	--	3.0	--	35	--	--
FEB										
21...	24	--	--	--	--	--	--	--	--	--
MAR										
20...	50	--	--	--	--	--	--	--	--	--
APR										
10...	8	30	--	6.0	--	2.6	--	35	--	--
MAY										
15...	92	--	--	--	--	--	--	--	--	--
JUN										
12...	40	--	--	--	--	--	--	--	--	--

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
21...	--	--	--	--	--	--	--	--	74	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
19...	--	--	--	--	--	--	--	22	110	--
21...	3.9	--	4.8	28	0	23	4.5	38	99	.1
JAN										
23...	--	6.9	--	--	--	7	--	15	68	--
FEB										
21...	--	--	--	--	--	--	--	--	62	--
MAR										
20...	--	--	--	--	--	--	--	10	63	--
APR										
10...	--	2.0	--	--	--	21	--	9.0	58	--
MAY										
15...	--	--	--	--	--	--	--	6.0	24	--
JUN										
12...	--	--	--	--	--	--	--	12	19	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
21...	--	250	16	<.05	<.05	<.05	.07	--	.65	--
22...	--	--	--	--	--	--	--	--	--	--
DEC										
19...	--	285	<1	.24	<.05	.25	.07	--	.87	--
21...	13	257	--	--	--	.74	.07	1.3	5.7	5.0
JAN										
23...	--	198	4	.26	<.05	.27	.09	--	.33	--
FEB										
21...	--	187	6	--	--	.23	--	--	.52	--
MAR										
20...	--	174	8	.02	.01	.03	.06	--	.24	--
APR										
10...	--	174	12	.10	.03	.13	.16	--	.42	--
MAY										
15...	--	115	6	.01	.01	.02	.18	--	.15	--
JUN										
12...	--	108	6	.08	.02	.10	--	--	.35	--

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ALDRIN, TOTAL (UG/L) (39330)
OCT										
13...	--	--	--	--	--	--	--	11	.6	--
NOV										
22...	--	--	--	--	--	--	--	11	.9	--
DEC										
21...	--	--	--	--	--	--	--	8.6	.6	--
JAN										
23...	<10	<5	30	770	10	310	30	--	--	--
FEB										
21...	--	--	--	--	--	--	--	--	--	.00
APR										
10...	<10	10	60	1400	20	1000	40	--	--	--
JUN										
12...	--	--	--	--	--	--	--	--	--	.00

DATE	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
13...	--	--	--	--	--	--	--	--	--
NOV									
22...	--	--	--	--	--	--	--	8	80
DEC									
21...	--	--	--	--	--	--	--	3	21
JAN									
23...	--	--	--	--	--	--	--	--	--
FEB									
21...	.00	.00	.00	.00	.00	.00	0	--	--
APR									
10...	--	--	--	--	--	--	--	--	--
JUN									
12...	.00	.00	.00	.00	.00	.00	0	--	--

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR

LOCATION.--Lat 34°36'36", long 93°41'50", in SE¼SW¼ sec.32, T.1 S., R.25 W., Montgomery County, Hydrologic Unit 08040101, on right bank 300 ft (91 m) upstream from bridge on U.S. Highway 270, 3.1 mi (5.0 km) upstream from Fiddler's Creek, 5.2 mi (8.4 km) northwest of Mount Ida, and at mile 553.4 (890.4 km).

DRAINAGE AREA.--410 mi^2 (1,062 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1211: 1947(m).

GAGE.--Water-stage recorder. Datum of gage is 655.14 ft (199.687 m) 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 (107 m) downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--37 years, 708 ft^3/s (20.1 m^3/s), 23.45 in/yr (596 mm/yr), 512,900 acre-ft/yr (632 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,500 ft^3/s (2,700 m^3/s) Dec. 10, 1971, gage height, 38.62 ft (11.771 m), from floodmarks; minimum, 2.3 ft^3/s (0.065 m^3/s) Aug. 25, 1954, gage height, 1.03 ft (0.314 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Dec. 10, 1971, was about 3.0 ft (0.9 m) higher than that of 1908 and is the highest since at least that date, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,160 ft^3/s (203 m^3/s) Mar. 8, gage height, 11.86 ft (3.615 m), no peak above base of 11,000 ft^3/s (310 m^3/s); minimum discharge, 11 ft^3/s (0.31 m^3/s) Aug. 25-26, gage height, 1.18 ft (0.360 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	39	615	106	504	1220	495	436	173	28	17	18
2	91	108	710	102	462	1230	436	428	215	27	21	18
3	70	156	481	97	423	1670	390	870	170	27	25	18
4	58	132	406	98	387	1370	365	1800	150	27	22	17
5	51	103	539	91	372	1100	364	1500	989	24	23	17
6	47	85	394	91	392	959	363	1340	485	26	21	17
7	43	75	316	91	404	2280	472	4120	509	31	21	19
8	46	69	266	87	376	3740	373	5510	586	42	21	19
9	41	75	225	83	351	2540	330	2390	404	37	21	17
10	40	119	196	79	337	1810	358	1340	294	29	21	16
11	38	141	176	85	327	1410	1180	979	217	24	22	16
12	34	116	164	102	385	1110	1070	788	180	21	26	18
13	35	100	166	99	2510	996	799	688	215	20	24	27
14	36	90	178	99	1940	1510	630	568	159	18	27	61
15	33	83	163	96	1270	1210	516	454	128	19	27	58
16	32	4290	157	158	1020	999	439	380	107	23	33	66
17	30	1650	169	887	888	858	409	324	92	25	33	51
18	28	630	162	823	821	745	725	300	82	23	33	41
19	27	414	152	605	736	651	617	263	76	20	24	33
20	26	299	142	489	696	578	465	229	114	19	22	29
21	25	226	131	409	691	703	387	306	99	17	19	26
22	24	188	124	358	644	906	332	688	82	16	16	24
23	22	160	119	329	683	758	556	1080	70	16	15	21
24	28	141	115	484	776	3250	670	664	61	15	12	20
25	26	125	111	1830	819	3150	576	466	53	14	12	19
26	31	111	105	1800	823	1780	501	363	46	14	13	18
27	29	100	101	1170	783	1300	402	294	40	17	13	17
28	26	94	97	882	1080	1010	333	242	35	24	12	17
29	26	94	100	730	---	826	294	222	32	23	14	16
30	26	132	109	637	---	684	289	247	29	18	13	15
31	27	---	108	565	---	576	---	210	---	17	14	---
TOTAL	1224	10145	6997	13562	20900	42929	15136	29489	5892	701	637	769
MEAN	39.5	338	226	437	746	1385	505	951	196	22.6	20.5	25.6
MAX	128	4290	710	1830	2510	3740	1180	5510	989	42	33	66
MIN	22	39	97	79	327	576	289	210	29	14	12	15
CFSM	.10	.82	.55	1.07	1.82	3.38	1.23	2.32	.48	.06	.05	.06
IN.	.11	.92	.63	1.23	1.90	3.90	1.37	2.68	.53	.06	.06	.07
AC-FT	2430	20120	13880	26900	41460	85150	30020	58490	11690	1390	1260	1530

CAL YR 1977 TOTAL 180653 MEAN 495 MAX 32800 MIN 22 CFSM 1.21 IN 16.39 AC-FT 358300
WTR YR 1978 TOTAL 148381 MEAN 407 MAX 5510 MIN 12 CFSM .99 IN 13.46 AC-FT 294300

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-52, April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1949 to September 1952,
WATER TEMPERATURES: October 1949 to September 1952.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)
OCT												
18...	9827	9827	--	95	7.5	19.0	5	9.4	100	1.7	160	100
NOV												
03...	1028	--	172	--	--	16.5	--	--	--	--	--	--
15...	9827	9827	--	99	7.7	17.0	5	10.5	108	1.7	80	24
DEC												
13...	9827	9827	--	68	--	12.0	15	11.5	106	2.6	100	36
13...	1028	--	171	--	--	6.0	--	--	--	--	--	--
FEB												
14...	9827	9827	--	47	6.7	2.0	--	12.1	85	4.6	240	--
20...	9827	9827	--	50	7.4	3.0	15	13.2	98	2.3	5	<3
MAR												
09...	1028	--	2460	--	--	7.5	--	--	--	--	--	--
14...	9827	9827	--	45	6.8	10.0	150	11.0	97	2.3	340	200
APR												
11...	9827	9827	--	50	7.0	19.0	30	9.0	96	3.7	--	1000
20...	1028	--	466	--	--	17.0	--	--	--	--	--	--
MAY												
09...	9827	9827	--	42	6.6	21.0	40	8.4	93	2.8	1600	1300
31...	1028	--	211	--	--	27.0	--	--	--	--	--	--
JUN												
06...	9827	9827	--	42	7.1	24.0	--	7.8	92	3.3	360	410
JUL												
11...	9827	9827	--	65	6.9	32.0	20	7.0	95	1.6	130	400
11...	1028	--	24	--	--	29.5	--	--	--	--	--	--
AUG												
08...	9827	9827	--	66	7.3	28.0	10	8.0	101	2.1	300	25
21...	1028	--	18	--	--	31.5	--	--	--	--	--	--
SEP												
05...	9827	9827	--	71	7.3	30.0	5	7.4	97	2.5	30	13

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT												
18...	--	13	2.3	4.1	1.8	34	5.0	6.0	62	6	.11	<.05
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	5.0	5.5	60	4	<.05	<.05
DEC												
13...	--	--	--	--	--	--	6.0	5.5	54	5	.26	<.05
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	--	--	--	--	--	--	4.0	5.0	60	120	.40	.01
20...	11	2.0	1.0	2.5	.8	16	4.0	--	47	12	.44	.01
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	10	4.5	34	9	.33	.01
APR												
11...	15	3.0	1.4	3.2	1.3	16	3.0	4.5	--	27	.18	.02
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	--	--	--	--	--	--	4.0	4.0	49	23	.21	.01
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	--	--	--	--	--	--	10	3.5	46	13	.12	.01
JUL												
11...	21	5.0	2.0	3.0	1.1	25	11	--	47	<1	.02	.01
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	1.0	4.5	49	4	.04	.02
21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	--	--	--	--	--	--	--	4.0	42	4	.02	.01

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
OCT												
18...	.11	.16	.04	.20	.31	1.4	.02	<5	<10	<5	10	370
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.05	.14	.46	.60	.65	2.9	.31	--	--	--	--	--
DEC												
13...	.27	.06	.44	.50	.77	3.4	.05	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	.41	.08	--	--	--	--	.20	--	--	--	--	--
20...	.45	.02	.38	.40	.85	3.8	.06	<5	<10	<5	240	670
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.34	.05	1.4	1.5	1.8	8.1	.04	--	--	--	--	--
APR												
11...	.20	.07	.43	.50	.70	3.1	.07	<5	<10	10	30	1100
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	.22	.06	--	--	--	--	.11	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	.13	.08	--	--	--	--	.05	--	--	--	--	--
JUL												
11...	.03	.06	.04	.10	.13	.60	.08	<5	<10	<5	<20	300
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	.06	.04	.46	.50	.56	2.5	.02	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	.03	.10	.20	.30	.33	1.5	.06	--	<10	--	<20	350

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT												
18...	--	41	--	40	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	--	--	--	--	--	--	--	--	--	--	--	--
20...	50	25	--	160	--	--	--	--	--	--	--	--
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	<10	63	--	50	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	10	39	<1.0	50	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	--	38	--	90	--	--	--	--	--	--	--	--

07356320 IRONS FORK NEAR FANNIE, AR

LOCATION.--Lat 34°41'27", long 93°24'44", in NE¼SE¼ sec.35, T.1 N., R.25 W., Montgomery County, Hydrologic Unit 08040101, at bridge on State Highway 298, and 2.2 mi (3.5 km) east of Fannie.

DRAINAGE AREA.--72.2 mi^2 (187.0 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV					
01...	810	33	6.7	19.5	5.8
08...	810	34	6.7	18.0	7.4
15...	810	49	6.7	14.5	9.0
21...	810	27	6.4	13.0	14.0
28...	810	26	6.5	10.0	7.6
DEC					
05...	810	25	6.3	10.5	7.2
12...	810	40	6.6	6.0	7.2
19...	810	45	6.7	10.0	7.7
27...	810	61	6.6	5.5	11.2
JAN					
03...	810	27	6.7	5.5	18.2
09...	810	27	6.7	5.0	19.2
17...	810	25	6.6	3.0	19.2
23...	810	27	6.5	5.0	10.4
FEB					
01...	810	28	6.3	4.5	10.5
06...	810	27	6.4	5.0	10.8
13...	810	53	6.3	5.0	10.2
20...	810	42	6.6	4.0	8.3
27...	810	46	6.5	8.0	9.0
MAR					
07...	810	53	6.4	7.0	10.2
13...	810	52	6.6	9.0	8.4
20...	810	47	6.8	15.0	10.0
27...	810	29	6.6	13.0	10.2
APR					
03...	810	43	6.6	18.0	10.8
11...	810	21	6.3	17.0	6.7
18...	810	17	6.6	19.0	6.2
26...	810	41	6.7	18.0	7.8
MAY					
02...	810	46	6.6	17.0	9.2
09...	810	35	6.4	16.5	9.5
16...	810	35	6.8	19.5	6.8
23...	810	32	6.8	22.0	6.8
30...	810	31	7.0	24.0	8.6
JUN					
06...	810	38	6.6	21.5	6.4
13...	810	37	6.8	21.5	6.0
19...	810	34	6.6	24.0	5.8
26...	810	44	6.9	26.0	5.5
JUL					
06...	810	34	7.0	31.0	5.4
10...	810	38	6.7	28.0	5.2
17...	810	38	6.9	24.0	4.0
24...	810	28	6.8	28.0	6.5
31...	810	26	7.0	31.5	6.3
AUG					
07...	810	21	7.3	28.5	7.8
14...	810	19	7.0	28.5	4.8
21...	810	44	7.3	31.5	6.7
29...	810	36	6.9	28.0	9.3
SEP					
04...	810	47	7.0	28.0	6.8
13...	810	54	7.0	28.0	6.0
20...	810	63	6.9	26.0	7.2
25...	810	45	6.8	23.5	6.5

07356500 SOUTH FORK OUACHITA RIVER AT MOUNT IDA, AR

LOCATION.--Lat 34°33'37", long 93°38'09", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, Hydrologic Unit 08040101, near right bank on downstream side of bridge on U.S. Highway 270 at Mount Ida, 3.4 mi (5.5 km) upstream from Williams Creek, and at mile 22.5 (36.2 km).

DRAINAGE AREA.--64 mi^2 (166 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV					
01...	810	116	7.2	19.0	5.4
08...	810	89	7.4	19.0	5.8
15...	810	138	7.3	12.0	9.1
21...	810	99	7.3	12.0	8.7
28...	810	90	7.2	10.0	6.0
DEC					
05...	810	71	7.2	13.0	6.0
12...	810	73	7.2	7.0	6.8
19...	810	159	7.4	13.0	6.6
27...	810	--	7.3	5.0	9.7
JAN					
03...	810	151	7.3	5.0	15.6
09...	810	142	7.2	5.0	18.4
17...	810	84	7.0	3.0	19.8
23...	810	107	7.2	6.5	7.8
FEB					
01...	810	110	7.0	5.0	9.8
06...	810	155	7.0	6.0	9.3
13...	810	107	6.8	5.0	9.8
20...	810	148	7.0	7.0	9.6
27...	810	162	7.4	8.5	8.2
MAR					
07...	810	104	6.9	7.5	9.8
13...	810	129	7.1	9.0	8.2
20...	810	92	7.5	17.0	9.2
27...	810	93	7.2	16.0	9.8
APR					
03...	810	130	7.5	20.5	10.0
11...	810	69	7.4	17.0	6.5
18...	810	52	7.4	16.0	6.4
26...	810	123	7.4	15.0	7.9
MAY					
02...	810	142	7.4	15.0	8.2
09...	810	106	7.2	15.0	7.8
16...	810	161	7.2	17.0	6.7
23...	810	107	7.5	21.0	5.8
30...	810	148	7.4	21.5	5.7
JUN					
06...	810	131	7.3	20.0	6.0
13...	810	155	7.3	19.0	5.0
19...	810	148	7.3	22.0	5.7
26...	810	209	7.5	27.5	5.8
JUL					
06...	810	122	7.6	28.0	5.0
10...	810	141	7.5	29.0	4.8
17...	810	133	7.4	24.0	4.4
24...	810	107	7.6	31.5	5.7
31...	810	108	7.5	30.5	5.2
AUG					
07...	810	70	7.6	29.0	6.2
14...	810	19	7.2	26.5	4.0
21...	810	180	7.5	30.5	6.1
29...	810	122	7.3	28.0	7.1
SEP					
04...	810	178	7.3	25.5	6.5
13...	810	139	7.3	26.0	5.7
20...	810	175	7.3	26.5	6.2
25...	810	170	7.3	25.0	5.8

RED RIVER BASIN

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°34'20", long 93°11'50", in NE¼ sec.12, T.2 S., R.21 W., Garland County, Hydrologic Unit 08040101, at Blakely Mountain Dam on Ouachita River, 2.4 mi (3.9 km) upstream from Glazypeau Creek, 3.8 mi (6.1 km) downstream from Mill Creek, 10.0 mi (16.1 km) northwest of Hot Springs, and at mile 487.0 (783.6 km).
DRAINAGE AREA.--1,105 mi² (2,862 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). July 7, 1952, to July 6, 1953, nonrecording gage at present site and datum.
REMARKS.--Lake is formed by rolled earthfill dam. The uncontrolled spillway is a channel 200 ft (61.0 m) wide located in natural saddle of ridge west of dam, and floodflows may be regulated by operations of three 8-ft (2.4-m) by 15-ft (4.6-m) gates. Storage began July 7, 1952. Capacity between elevations 578.0 ft (176.17 m) and 592.0 ft (180.44 m) is 617,300 acre-ft (761 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest	592.0 (180.44 m)	2,768,400 (3,410 hm³)
Top of designated power pool	578.0 (176.17 m)	2,151,100 (2,650 hm³)
Top of conservation pool and bottom of designated power pool	535.0 (163.07 m)	864,900 (1,070 hm³)
Bottom of lowest outlet	480.0 (146.30 m)	

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,609,300 acre-ft (3,217 hm³) May 19, 1968, elevation, 588.63 ft (179.414 m); minimum since top of conservation pool was first reached, 883,000 acre-ft (1,090 hm³) Jan. 9, 1954, elevation, 535.86 ft (163.330 m).
EXTREMES FOR WATER YEAR 1977.--Maximum contents, 2,291,900 acre-ft (2,830 hm³) Mar. 30, elevation, 581.43 ft (177.220 m); minimum, 1,783,900 acre-ft (2,200 hm³) Dec. 10, elevation 568.17 ft (173.178 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,169,600 acre-ft (2,680 hm³) May 9, elevation, 578.46 ft (176.315 m); minimum, 1,922,300 acre-ft (2,370 hm³) Oct. 31, elevation, 572.04 ft (174.358 m).

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

568	1,778.0	575	2,033.4
569	1,812.9	579	2,191.4
572	1,920.8	582	2,315.9

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1942000	1870000	1800000	1818000	1877000	1966000	2280000	2146000	2107000	2075000	2042000	2006000
2	1937000	1868000	1797000	1816000	1878000	1968000	2273000	2148000	2104000	2073000	2042000	2001000
3	1932000	1864000	1794000	1816000	1881000	1980000	2266000	2148000	2101000	2072000	2041000	1998000
4	1928000	1862000	1792000	1815000	1885000	2052000	2260000	2147000	2100000	2071000	2040000	1990000
5	1924000	1858000	1786000	1815000	1889000	2080000	2256000	2144000	2098000	2070000	2038000	1988000
6	1920000	1856000	1788000	1815000	1892000	2091000	2241000	2142000	2097000	2069000	2038000	1991000
7	1918000	1855000	1788000	1816000	1894000	2097000	2231000	2141000	2096000	2066000	2037000	1992000
8	1913000	1853000	1787000	1816000	1896000	2098000	2213000	2136000	2093000	2064000	2036000	1989000
9	1909000	1848000	1785000	1818000	1898000	2098000	2210000	2140000	2091000	2063000	2034000	1987000
10	1908000	1844000	1785000	1820000	1901000	2097000	2198000	2138000	2091000	2061000	2032000	1987000
11	1906000	1838000	1793000	1814000	1901000	2095000	2186000	2136000	2087000	2060000	2031000	1985000
12	1902000	1834000	1809000	1812000	1913000	2098000	2174000	2134000	2085000	2058000	2030000	1983000
13	1899000	1827000	1818000	1812000	1922000	2099000	2162000	2132000	2085000	2056000	2028000	1982000
14	1895000	1823000	1821000	1827000	1929000	2102000	2151000	2130000	2085000	2052000	2028000	1985000
15	1891000	1818000	1822000	1841000	1933000	2103000	2145000	2128000	2083000	2049000	2028000	1986000
16	1886000	1816000	1823000	1850000	1934000	2103000	2141000	2127000	2082000	2046000	2027000	1984000
17	1883000	1813000	1823000	1856000	1936000	2102000	2138000	2125000	2079000	2044000	2024000	1982000
18	1877000	1809000	1826000	1859000	1937000	2104000	2134000	2123000	2076000	2043000	2024000	1980000
19	1872000	1806000	1827000	1859000	1939000	2103000	2136000	2121000	2091000	2040000	2022000	1980000
20	1870000	1806000	1829000	1858000	1941000	2105000	2142000	2119000	2091000	2037000	2020000	1978000
21	1865000	1808000	1825000	1859000	1942000	2104000	2150000	2119000	2090000	2035000	2020000	1975000
22	1860000	1807000	1820000	1860000	1943000	2105000	2150000	2117000	2088000	2036000	2018000	1973000
23	1857000	1805000	1821000	1862000	1944000	2105000	2150000	2117000	2086000	2035000	2017000	1971000
24	1858000	1804000	1821000	1865000	1951000	2105000	2150000	2116000	2084000	2034000	2016000	1969000
25	1871000	1803000	1821000	1867000	1952000	2105000	2150000	2115000	2083000	2033000	2014000	1969000
26	1876000	1804000	1821000	1870000	1953000	2106000	2145000	2113000	2082000	2032000	2012000	1968000
27	1875000	1808000	1821000	1872000	1960000	2111000	2145000	2111000	2083000	2035000	2011000	1965000
28	1871000	1808000	1822000	1874000	1963000	2200000	2145000	2109000	2080000	2035000	2010000	1965000
29	1866000	1807000	1822000	1874000	---	2286000	2146000	2112000	2079000	2035000	2009000	1963000
30	1868000	1802000	1821000	1875000	---	2291000	2146000	2111000	2077000	2035000	2008000	1963000
31	1869000	---	1820000	1876000	---	2287000	---	2109000	---	2038000	2007000	---
MAX	1942000	1870000	1829000	1876000	1963000	2291000	2280000	2148000	2107000	2075000	2042000	2006000
MIN	1857000	1802000	1785000	1812000	1877000	1966000	2138000	2109000	2077000	2032000	2007000	1963000
(†)	570.59	568.64	569.13	570.80	573.21	581.19	577.88	576.90	576.09	575.21	574.26	573.12
(‡)	-72300	-69200	+17200	+59600	+88600	+316100	-135500	-38900	-31800	-34100	-36300	-42900

CAL YR 1976 MAX 2118000 MIN 1785000 ‡ -56700
WTR YR 1977 MAX 2291000 MIN 1785000 ‡ +20500

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

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--CONTINUED

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1962000	1925000	2009000	2020000	2055000	2078000	2142000	2138000	2124000	2096000	2024000	1971000
2	1959000	1951000	2012000	2020000	2056000	2080000	2138000	2137000	2125000	2094000	2020000	1969000
3	1957000	1957000	2014000	2017000	2056000	2087000	2135000	2140000	2124000	2092000	2018000	1969000
4	1955000	1959000	2017000	2018000	2057000	2090000	2132000	2146000	2124000	2088000	2017000	1968000
5	1954000	1960000	2026000	2017000	2058000	2092000	2128000	2146000	2124000	2087000	2014000	1967000
6	1953000	1960000	2028000	2017000	2055000	2094000	2125000	2144000	2129000	2085000	2013000	1966000
7	1951000	1960000	2024000	2017000	2052000	2104000	2123000	2140000	2132000	2084000	2011000	1964000
8	1953000	1957000	2020000	2018000	2049000	2126000	2120000	2155000	2140000	2083000	2009000	1962000
9	1953000	1958000	2020000	2017000	2048000	2136000	2118000	2169000	2133000	2079000	2008000	1961000
10	1952000	1958000	2015000	2012000	2044000	2142000	2118000	2165000	2133000	2077000	2006000	1960000
11	1951000	1955000	2012000	2009000	2048000	2143000	2120000	2156000	2132000	2074000	2004000	1959000
12	1949000	1954000	2011000	2011000	2046000	2146000	2119000	2148000	2131000	2072000	2003000	1959000
13	1947000	1953000	2010000	2009000	2052000	2149000	2120000	2149000	2132000	2070000	2002000	1974000
14	1943000	1952000	2015000	2007000	2060000	2151000	2118000	2146000	2130000	2067000	2001000	1985000
15	1943000	1952000	2017000	2002000	2066000	2151000	2116000	2146000	2130000	2067000	2000000	1986000
16	1942000	1971000	2017000	2001000	2067000	2150000	2113000	2144000	2128000	2065000	1996000	1986000
17	1939000	1991000	2020000	2012000	2064000	2147000	2113000	2142000	2127000	2062000	1994000	1984000
18	1937000	1995000	2021000	2013000	2070000	2142000	2130000	2140000	2125000	2059000	1991000	1983000
19	1936000	1995000	2022000	2016000	2071000	2139000	2130000	2137000	2126000	2056000	1987000	1980000
20	1935000	1997000	2024000	2017000	2072000	2140000	2130000	2133000	2124000	2054000	1986000	1975000
21	1932000	2002000	2023000	2015000	2074000	2136000	2131000	2134000	2122000	2050000	1984000	1971000
22	1928000	2003000	2021000	2015000	2072000	2133000	2129000	2137000	2119000	2048000	1981000	1968000
23	1928000	2004000	2019000	2016000	2072000	2131000	2138000	2136000	2118000	2046000	1979000	1965000
24	1927000	2004000	2020000	2018000	2071000	2135000	2142000	2136000	2117000	2045000	1976000	1965000
25	1928000	2005000	2021000	2017000	2072000	2142000	2146000	2134000	2114000	2045000	1973000	1964000
26	1928000	2006000	2021000	2015000	2072000	2146000	2144000	2132000	2110000	2040000	1971000	1962000
27	1927000	2002000	2022000	2010000	2074000	2147000	2142000	2127000	2106000	2038000	1968000	1961000
28	1926000	2002000	2020000	2013000	2076000	2143000	2140000	2124000	2103000	2035000	1966000	1960000
29	1925000	2001000	2020000	2014000	---	2144000	2140000	2127000	2100000	2032000	1969000	1959000
30	1924000	2002000	2020000	2016000	---	2146000	2140000	2127000	2097000	2028000	1975000	1958000
31	1923000	---	2020000	2016000	---	2145000	---	2126000	---	2025000	1972000	---
MAX	1962000	2006000	2024000	2018000	2076000	2151000	2146000	2169000	2140000	2096000	2024000	1986000
MIN	1923000	1925000	2009000	2001000	2044000	2078000	2113000	2124000	2097000	2025000	1966000	1958000
(†)	572.05	574.34	574.64	575.55	576.13	577.76	577.61	577.31	576.62	574.75	573.36	572.98
(‡)	-39700	+85700	+11400	+35000	+22500	+64300	-6000	-11900	-27200	-72500	-52600	-14200

CAL YR 1977 MAX 2024000 MIN 1912000 ‡ +202200
WTR YR 1978 MAX 2169000 MIN 1923000 ‡ -5200

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

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year. August 1973 to July 1974 in reports of Corps of Engineers, Vicksburg, Miss.

COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
18...	810	.0	75	7.1	20.5	8.4
18...	810	6.6	76	7.1	20.5	8.4
18...	810	13	76	7.1	21.0	8.2
18...	810	20	78	7.1	20.5	8.3
18...	810	26	78	7.1	21.0	8.0
18...	810	33	78	7.1	20.5	8.2
18...	810	39	76	7.0	20.0	4.4
18...	810	46	84	6.7	14.0	4.8
18...	810	52	87	6.7	12.0	5.2
18...	810	59	--	6.7	11.5	5.2
18...	810	66	89	6.7	10.5	5.5
18...	810	72	90	6.7	9.5	5.8
18...	810	79	92	6.7	8.0	6.3
18...	810	85	92	6.7	8.0	6.3
18...	810	92	93	6.7	7.0	6.3
18...	810	98	93	6.5	7.0	6.4
18...	810	105	90	6.5	7.0	6.4
18...	810	112	91	6.5	6.5	6.2
18...	810	118	91	6.5	6.5	6.2
18...	810	125	92	6.5	6.5	6.1
18...	810	131	94	6.5	6.0	6.0
18...	810	138	94	6.5	6.0	6.0
18...	810	144	94	6.5	6.0	6.0
18...	810	151	94	6.5	6.0	6.0
18...	810	157	94	6.5	6.0	6.0
18...	810	164	97	6.5	6.0	6.0
18...	810	170	101	6.5	6.0	5.9
18...	810	177	148	6.5	6.0	5.9
NOV						
22...	810	.0	60	--	15.0	7.6
22...	810	6.6	60	--	15.5	7.5
22...	810	13	61	--	15.5	7.3
22...	810	20	62	--	15.5	7.4
22...	810	26	63	--	15.5	7.4
22...	810	33	64	--	15.5	7.3
22...	810	39	69	--	14.5	4.5
22...	810	46	71	--	13.0	1.4
22...	810	52	72	--	11.5	1.8
22...	810	59	74	--	11.0	1.9
22...	810	66	76	--	10.0	1.9

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV					
22...	810	72	76	9.0	4.3
22...	810	79	78	8.5	4.8
22...	810	85	79	8.0	5.0
22...	810	92	79	7.5	5.1
22...	810	98	81	7.0	5.2
22...	810	105	81	7.0	5.2
22...	810	112	82	7.0	5.0
22...	810	118	86	7.0	4.8
22...	810	125	88	6.5	4.6
22...	810	131	90	6.5	4.5
22...	810	138	91	6.5	4.5
22...	810	144	91	6.5	4.5
22...	810	151	92	6.5	4.5
22...	810	157	92	6.5	4.4
22...	810	164	94	6.5	4.4
22...	810	170	94	6.5	4.4
DEC					
27...	810	.0	63	9.0	--
27...	810	6.6	63	9.0	--
27...	810	13	64	9.0	--
27...	810	20	66	9.0	--
27...	810	26	66	9.0	--
27...	810	33	66	9.0	--
27...	810	39	67	9.0	--
27...	810	46	68	9.0	--
27...	810	52	71	9.0	--
27...	810	59	74	9.0	--
27...	810	66	76	9.0	--
27...	810	72	76	9.0	--
27...	810	79	77	9.0	--
27...	810	85	79	9.0	--
27...	810	92	81	8.5	--
27...	810	98	83	8.0	--
27...	810	105	86	7.5	--
27...	810	112	88	7.0	--
27...	810	118	90	7.0	--
27...	810	125	90	7.0	--
27...	810	131	92	7.0	--
27...	810	138	93	7.0	--
27...	810	144	94	6.5	--

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC						
27...	810	151	95	--	6.5	--
27...	810	157	96	--	6.5	--
27...	810	164	98	--	6.5	--
JAN						
31...	810	.0	70	6.9	5.0	9.9
31...	810	6.6	70	6.9	5.0	9.8
31...	810	13	71	6.9	5.0	9.8
31...	810	20	71	6.8	5.0	9.7
31...	810	26	71	6.8	5.0	9.5
31...	810	33	71	6.8	5.0	9.5
31...	810	39	73	6.8	5.0	9.5
31...	810	46	73	6.8	5.0	9.5
31...	810	52	73	6.8	5.0	9.4
31...	810	59	73	6.9	5.0	9.4
31...	810	66	73	6.8	5.0	9.4
31...	810	72	73	6.8	5.0	9.3
31...	810	79	73	6.8	5.0	9.3
31...	810	85	74	6.8	5.0	9.2
31...	810	92	74	6.8	5.0	9.2
31...	810	98	74	6.8	5.0	9.2
31...	810	105	74	6.8	5.0	9.2
31...	810	112	74	6.8	5.0	9.2
31...	810	118	75	6.8	5.0	9.1
31...	810	125	75	6.9	5.0	9.1
31...	810	131	77	6.9	5.0	9.0
31...	810	138	78	6.9	5.0	9.0
31...	810	144	79	6.8	5.0	9.1
31...	810	151	81	6.7	5.0	9.1
31...	810	157	81	6.7	5.0	9.1
31...	810	164	81	6.7	5.0	9.1
31...	810	170	81	6.7	5.0	9.1
31...	810	177	81	6.7	5.0	9.1
MAR						
07...	810	.0	67	6.8	5.0	11.2
07...	810	6.6	68	6.8	4.0	11.2
07...	810	13	68	6.8	4.0	10.8
07...	810	20	68	6.8	4.0	10.6
07...	810	26	68	6.8	4.0	10.4
07...	810	33	68	6.8	4.0	10.4
07...	810	39	68	6.8	4.0	10.6
07...	810	46	68	6.8	4.0	10.6
07...	810	52	68	6.8	4.0	10.6
07...	810	59	68	6.7	4.0	10.6
07...	810	66	68	6.7	4.0	10.4
07...	810	72	68	6.7	4.0	10.4
07...	810	79	68	6.7	4.0	10.4
07...	810	85	68	6.7	4.0	10.4
07...	810	92	69	6.7	3.5	10.2
07...	810	98	69	6.7	3.5	10.4
07...	810	105	69	6.7	3.0	10.5
07...	810	112	69	6.7	3.0	10.5
07...	810	118	69	6.7	3.0	10.5
07...	810	125	69	6.7	3.0	10.5
07...	810	131	69	6.7	3.0	10.4
07...	810	138	69	6.7	3.0	10.4
07...	810	144	69	6.7	3.0	10.3
07...	810	151	69	6.7	3.0	10.4
07...	810	157	69	6.7	3.0	10.4
07...	810	164	81	6.7	3.0	10.4
07...	810	170	73	6.7	3.0	10.4
07...	810	177	73	6.7	3.0	10.4
APR						
11...	810	.0	61	7.1	16.5	9.2
11...	810	6.6	61	7.1	16.0	9.2
11...	810	13	63	7.0	15.5	8.8
11...	810	20	64	7.0	15.5	9.1
11...	810	26	65	7.0	15.0	9.2
11...	810	33	66	7.0	14.0	9.2
11...	810	39	64	7.0	11.0	10.2
11...	810	46	67	7.0	8.0	10.4
11...	810	52	68	6.9	7.0	10.4
11...	810	59	70	6.9	6.5	10.4
11...	810	66	72	6.9	6.0	10.2
11...	810	72	72	6.9	5.5	10.3
11...	810	79	73	6.9	5.0	10.2
11...	810	85	75	6.9	4.5	10.2
11...	810	92	77	6.9	4.5	10.0
11...	810	98	79	6.9	4.0	10.0
11...	810	105	81	6.9	4.0	10.0
11...	810	112	81	6.9	4.0	9.9

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
APR						
11...	810	118	82	6.9	4.0	9.9
11...	810	125	83	6.9	4.0	9.6
11...	810	131	83	6.9	4.0	9.9
11...	810	138	85	6.9	4.0	9.8
11...	810	144	86	6.9	4.0	9.8
11...	810	151	88	6.9	4.0	9.8
11...	810	157	89	6.9	4.0	3.6
MAY						
16...	810	.0	55	7.2	18.5	10.4
16...	810	6.6	56	6.7	18.0	10.2
16...	810	13	55	6.7	18.0	10.1
16...	810	20	56	7.0	17.0	9.9
16...	810	26	56	7.1	17.0	9.6
16...	810	33	56	7.1	13.5	9.8
16...	810	46	53	7.0	8.5	10.6
16...	810	52	52	7.0	8.0	10.5
16...	810	59	54	7.0	6.0	10.8
16...	810	66	53	6.9	6.0	10.8
16...	810	72	53	6.9	5.5	10.8
16...	810	79	53	6.9	5.5	10.6
16...	810	85	53	6.9	5.0	10.6
16...	810	92	53	6.9	5.0	10.8
16...	810	98	53	6.9	5.0	10.8
16...	810	105	53	6.9	5.0	10.6
16...	810	112	54	6.9	4.5	10.6
16...	810	118	54	6.9	4.5	10.5
16...	810	125	54	6.9	4.0	10.5
16...	810	131	54	6.9	4.0	10.5
16...	810	138	54	6.9	4.0	10.6
16...	810	144	54	6.9	4.0	10.5
16...	810	151	54	6.9	4.0	10.4
16...	810	157	54	6.9	4.0	.4
16...	810	164	58	6.8	--	--
JUN						
26...	810	.0	56	7.4	30.0	7.6
26...	810	6.6	57	7.3	29.5	7.6
26...	810	13	57	7.3	28.0	8.0
26...	810	20	60	7.3	24.0	9.4
26...	810	26	56	7.2	19.5	9.4
26...	810	33	58	7.0	15.0	7.7
26...	810	39	59	6.9	13.0	7.5
26...	810	46	53	6.9	12.5	7.9
26...	810	52	52	6.8	10.5	8.7
26...	810	59	53	6.8	7.0	8.9
26...	810	66	53	6.8	7.0	9.2
26...	810	72	54	6.8	6.0	9.3
26...	810	79	54	6.8	6.0	9.3
26...	810	85	54	6.8	5.5	9.4
26...	810	92	55	6.8	5.0	9.4
26...	810	98	55	6.8	5.0	9.3
26...	810	105	55	6.8	5.0	9.3
26...	810	112	55	6.8	5.0	9.3
26...	810	118	55	6.8	5.0	9.2
26...	810	125	55	6.8	5.0	9.1
26...	810	131	55	6.8	4.5	9.0
26...	810	138	55	6.8	4.5	9.0
26...	810	144	55	6.8	4.5	9.2
26...	810	151	55	6.8	4.5	9.0
26...	810	157	55	6.8	4.5	9.0
26...	810	164	55	6.8	4.5	9.0
26...	810	170	55	6.8	4.5	8.8
26...	810	177	55	6.8	4.5	8.8
SEP						
11...	810	.0	53	7.3	27.0	7.4
11...	810	6.6	56	7.3	27.0	6.8
11...	810	13	56	7.3	27.0	7.0
11...	810	20	53	7.2	27.0	6.7
11...	810	26	43	7.0	27.0	6.7
11...	810	33	49	6.9	20.0	6.0
11...	810	39	52	6.8	16.0	5.4
11...	810	46	54	6.8	14.0	5.4
11...	810	52	50	6.8	12.0	5.7
11...	810	59	49	6.7	10.0	6.0
11...	810	66	49	6.6	8.5	6.2
11...	810	72	50	6.6	7.5	6.5
11...	810	79	51	6.6	7.0	6.6
11...	810	85	51	6.6	6.5	6.6
11...	810	92	51	6.6	6.0	6.8
11...	810	98	51	6.6	6.0	6.7
11...	810	105	51	6.6	6.0	6.7

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
SEP						
11...	810	112	52	6.6	5.0	6.7
11...	810	118	52	6.6	5.0	6.6
11...	810	125	52	6.6	5.0	6.5
11...	810	131	52	6.6	5.0	6.6
11...	810	138	52	6.6	5.0	6.6
11...	810	144	52	6.6	5.0	6.6
11...	810	151	52	6.6	5.0	6.6
11...	810	157	52	6.6	5.0	6.6
11...	810	164	52	6.6	5.0	6.6
11...	810	170	52	6.6	5.0	6.6

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°34'18", long 93°11'37", in SE¼ sec.12, T.2 S., R.21 W., Garland County, Hydrologic Unit 08040101, on outlet of power tunnel at Blakely Mountain Dam, 2.3 mi (3.7 km) upstream from Glazypeau Creek, 10.0 mi (16.1 km) northwest of Hot Springs, and at mile 486.9 (783.4 km).

DRAINAGE AREA.--1,105 mi^2 (2,862 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. October 1950 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Oct. 1, 1950, to Mar. 17, 1952, water-stage recorder at site 2,000 ft (610 m) downstream at datum 395.92 ft (120.676 m) National Geodetic Vertical Datum of 1929. Mar. 18, 1952, to Aug. 29, 1955, water-stage recorder at site 1,700 ft (520 m) downstream at present datum.

REMARKS.--Discharge computed from flowmeter and estimated leakage. Flow completely regulated by Lake Ouachita since 1952 (see station 07357500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--27 years, 1,485 ft^3/s (42.1 m^3/s), 1,076,000 acre-ft/yr (1,330 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge since storage began, 9,550 ft^3/s (270 m^3/s) June 13, 1968; minimum daily, 15 ft^3/s (0.42 m^3/s) Sept. 1, 1973 (estimated leakage).

EXTREMES FOR WATER YEAR 1976.--Maximum daily discharge, 3,710 ft^3/s (105 m^3/s) Nov. 13; minimum daily, 20 ft^3/s (0.57 m^3/s) at times.

EXTREMES FOR WATER YEAR 1977.--Maximum daily discharge, 6,540 ft^3/s (185 m^3/s) Apr. 8; minimum daily, 20 ft^3/s (0.57 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	443	2280	52	20	1010	20	161	151	397	278	1010
2	571	326	742	421	1000	992	59	426	164	20	503	832
3	632	1460	768	959	1060	741	20	531	381	36	484	886
4	389	160	1080	1170	315	927	216	20	20	20	483	1090
5	477	548	528	1340	20	1050	20	540	303	20	441	1220
6	461	310	437	1070	30	544	92	942	20	20	522	1010
7	322	1090	310	1690	197	20	229	20	41	150	525	1270
8	320	457	162	2670	20	20	287	381	268	563	336	1260
9	2060	429	1320	2130	153	20	258	291	703	200	652	1390
10	2070	1420	1260	120	914	101	395	290	469	215	740	972
11	2390	283	1440	246	524	83	20	334	467	301	946	1650
12	1790	1430	245	841	192	437	464	629	20	628	2110	1700
13	2380	3710	626	535	737	20	402	20	718	1170	1740	1700
14	1290	1460	219	865	721	31	208	141	262	190	1870	1630
15	2760	478	596	790	708	687	342	20	303	487	1270	1720
16	1530	20	2120	165	502	20	319	20	20	274	1430	1710
17	504	126	2720	330	442	160	151	678	543	457	1680	1320
18	168	316	3550	468	20	20	245	372	20	318	1460	474
19	466	237	1650	373	20	237	570	232	20	527	1730	437
20	457	302	516	560	51	40	853	478	20	546	1360	1710
21	417	1480	2610	228	20	303	2290	1550	107	434	1560	1540
22	372	2260	1480	449	164	245	20	69	221	383	1500	1720
23	789	1960	915	382	549	414	656	20	20	789	1500	1860
24	306	1310	426	20	866	162	20	493	381	853	1110	2070
25	218	1700	20	36	575	322	20	130	20	460	1390	2040
26	571	1160	722	20	524	171	676	2620	20	2060	1320	117
27	761	2020	492	138	134	143	897	1850	50	551	1510	2330
28	380	708	20	319	227	187	639	1210	433	531	857	2040
29	502	92	859	222	71	20	525	20	20	360	20	2060
30	871	755	66	211	---	20	276	20	20	593	593	2570
31	1620	---	20	20	---	185	---	20	---	498	426	---
TOTAL	28924	28450	30599	18840	10792	9332	11189	14528	6205	14051	32346	43338
MEAN	933	948	987	608	372	301	373	469	207	453	1043	1445
MAX	2760	3710	3550	2670	1060	1050	2290	2620	718	2060	2110	2570
MIN	168	20	20	20	20	20	20	20	20	20	20	117
AC-FT	57370	56430	60690	37370	21410	18510	22190	28820	12310	27870	64160	85960

CAL YR 1975 TOTAL 701969 MEAN 1923 MAX 6540 MIN 20 AC-FT 1392000
WTR YR 1976 TOTAL 248594 MEAN 679 MAX 3710 MIN 20 AC-FT 493100

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2580	1800	2190	565	148	545	6480	20	1190	552	468	1440
2	2290	2540	2050	487	257	1790	6490	401	1190	313	500	983
3	1680	2000	1820	362	31	20	6500	1010	540	460	462	1470
4	2210	1950	2030	507	56	195	6520	1640	774	523	686	679
5	1170	1160	700	381	28	20	6520	1380	428	588	230	632
6	2590	843	1480	68	20	20	6510	865	393	944	728	970
7	2610	962	1780	159	297	2630	6520	1630	618	879	569	982
8	2400	2120	1630	290	20	2360	6540	257	585	405	643	816
9	93	2990	1190	145	20	1240	6480	517	554	417	607	430
10	382	2810	1130	2900	157	2250	6470	904	974	356	533	441
11	2160	2670	334	1520	37	1880	6510	925	835	477	391	392
12	2060	3320	222	290	42	2580	6500	1280	507	800	534	606
13	2060	2840	1370	1350	20	351	6500	1200	178	1870	365	938
14	2000	2200	1620	84	141	1030	4830	574	354	1130	389	20
15	1560	1520	1290	20	1050	1920	2480	371	520	1350	644	971
16	2300	1810	1110	120	497	728	2060	974	390	522	1410	755
17	2300	1670	20	1260	793	321	1860	948	20	382	284	1180
18	2700	1800	20	1050	52	1520	2630	679	385	1190	335	544
19	2850	1440	20	2250	25	36	20	1070	308	1190	483	878
20	1840	245	2160	309	20	401	424	683	564	675	403	848
21	2210	559	2390	527	75	278	4660	644	1040	1070	504	759
22	1800	1200	440	28	33	311	5140	112	849	466	456	1100
23	1920	992	332	142	540	296	1750	395	659	332	443	1080
24	1130	1060	199	140	79	286	1290	784	680	426	380	945
25	987	422	449	157	118	26	3620	1140	540	389	842	945
26	2820	186	20	146	61	170	482	1420	26	271	467	1370
27	2720	1300	365	409	442	20	487	669	1410	403	373	968
28	3140	1260	641	991	20	1600	225	522	532	287	411	1020
29	2060	2960	55	93	---	6100	45	503	674	449	474	417
30	865	1180	409	78	---	6480	20	1120	856	369	475	617
31	222	---	1580	59	---	6460	---	859	---	90	1700	---
TOTAL	59709	49809	31046	16887	5074	43864	116563	25496	18573	14615	17189	25196
MEAN	1926	1660	1001	545	181	1415	3885	822	619	633	554	840
MAX	3140	3320	2390	2900	1050	6480	6540	1640	1410	1870	1700	1470
MIN	93	186	20	20	20	20	20	20	20	90	230	20
AC-FT	118400	98800	61580	33500	10070	87000	231200	50570	36840	28910	34090	49980

CAL YR 1976 TOTAL 301185 MEAN 823 MAX 3320 MIN 20 AC-FT 597400
WTR YR 1977 TOTAL 429026 MEAN 1175 MAX 6540 MIN 20 AC-FT 851000

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year, August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
18...	9827	9827	73	7.1	17.0	5	7.8	80	1.0	130	<13	--
NOV												
01...	810	--	50	6.6	12.0	--	9.6	--	--	--	--	--
08...	810	--	59	6.6	10.0	--	8.3	--	--	--	--	--
15...	810	--	50	6.8	12.0	--	8.2	--	--	--	--	--
15...	9827	9827	72	7.4	16.0	0	8.1	81	.9	440	7	--
21...	810	--	38	6.6	10.0	--	12.0	--	--	--	--	--
28...	810	--	46	6.6	12.0	--	8.7	--	--	--	--	--
DEC												
05...	810	--	45	6.5	12.0	--	8.8	--	--	--	--	--
12...	810	--	50	6.5	11.0	--	7.0	--	--	--	--	--
13...	9827	9827	79	--	15.0	5	8.9	87	1.4	150	40	--
19...	810	--	48	6.9	14.0	--	7.4	--	--	--	--	--
27...	810	--	73	7.0	10.0	--	--	--	--	--	--	--
JAN												
03...	810	--	64	6.8	10.5	--	14.4	--	--	--	--	--
09...	810	--	58	6.9	8.0	--	18.0	--	--	--	--	--
17...	810	--	58	6.8	8.0	--	14.0	--	--	--	--	--
23...	810	--	64	6.7	10.0	--	8.0	--	--	--	--	--
FEB												
01...	810	--	79	6.7	8.0	--	7.5	--	--	--	--	--
06...	810	--	99	6.7	7.5	--	8.2	--	--	--	--	--
13...	810	--	79	6.8	5.0	--	10.0	--	--	--	--	--
14...	9827	9827	67	7.4	11.0	--	12.4	112	3.7	280	20	--
20...	9827	9827	60	7.1	9.0	0	12.6	109	2.5	160	<3	26
20...	810	--	46	6.9	9.5	--	10.2	--	--	--	--	--
27...	810	--	56	6.8	7.0	--	7.0	--	--	--	--	--
MAR												
07...	810	--	96	6.9	8.0	--	11.2	--	--	--	--	--
13...	810	--	47	6.5	6.0	--	11.5	--	--	--	--	--
14...	9827	9827	52	7.2	12.0	5	11.8	109	1.6	30	<4	--
20...	810	--	47	6.8	8.0	--	13.0	--	--	--	--	--
27...	810	--	54	6.5	9.0	--	13.2	--	--	--	--	--
APR												
03...	810	--	54	6.5	10.0	--	12.8	--	--	--	--	--
11...	9827	9827	62	7.2	13.0	0	12.4	117	1.8	200	4	17
11...	810	--	37	7.1	12.0	--	8.5	--	--	--	--	--
18...	810	--	32	6.7	9.0	--	9.6	--	--	--	--	--
26...	810	--	51	6.6	10.0	--	13.2	--	--	--	--	--
MAY												
02...	810	--	54	6.8	9.0	--	12.2	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ALKA-LINITY (MG/L AS CACO3) (00410)	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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT											
18...	11	2.0	1.9	.8	27	5.0	4.0	44	2	.08	<.05
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	3.0	3.5	38	3	.09	<.05
21...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	5.0	4.5	56	12	.11	<.05
19...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	1.0	4.0	40	4	.10	.01
20...	7.0	2.0	1.7	.7	23	3.0	--	46	3	.10	.01
20...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	4.0	4.0	33	<1	.09	.01
20...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	4.0	1.7	1.8	.9	23	1.0	4.0	--	1	.09	.01
11...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT											
18...	.08	<.05	--	--	--	--	.01	<10	<5	<10	90
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.09	.05	.55	.60	.64	3.1	.00	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
13...	.12	.07	.43	.50	.62	2.7	.05	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	.11	.02	--	--	--	--	.03	--	--	--	--
20...	.11	.06	.24	.30	.41	1.8	.01	<10	<5	<20	40
20...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	.10	.03	.37	.40	1.0	4.4	.01	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	.10	.05	.25	.30	.40	1.8	.01	<10	8	<20	70
11...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT											
18...	--	26	40	--	--	--	--	--	--	--	--
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
21...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
20...	<10	28	90	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	10	<9	60	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
MAY										
09...	9827	9827	60	7.3	15.0	0	10.7	105	2.6	60
09...	810	--	76	6.6	11.0	--	11.5	--	--	--
16...	810	--	70	6.9	10.0	--	9.6	--	--	--
23...	810	--	52	6.8	9.0	--	9.6	--	--	--
30...	810	--	49	6.9	17.5	--	5.5	--	--	--
JUN										
06...	810	--	60	6.8	20.0	--	7.2	--	--	--
06...	9827	9827	63	7.2	28.0	--	8.7	110	3.9	210
13...	810	--	56	6.7	19.0	--	6.6	--	--	--
19...	810	--	51	7.0	10.0	--	10.0	--	--	--
26...	810	--	54	6.9	9.5	--	9.6	--	--	--
JUL										
06...	810	--	48	7.0	27.0	--	6.4	--	--	--
10...	810	--	49	6.7	13.0	--	8.8	--	--	--
11...	9827	9827	100	6.9	22.0	5	9.4	107	2.9	120
17...	810	--	480	7.2	20.0	--	7.3	--	--	--
24...	810	--	38	7.2	27.5	--	7.5	--	--	--
31...	810	--	23	7.1	26.5	--	7.8	--	--	--
AUG										
07...	810	--	20	6.7	24.5	--	7.6	--	--	--
08...	9827	9827	64	7.4	29.0	0	8.5	109	2.7	20
14...	810	--	28	6.9	15.0	--	4.9	--	--	--
21...	810	--	37	6.8	12.5	--	9.3	--	--	--
29...	810	--	37	7.0	29.0	--	8.6	--	--	--
SEP										
04...	810	--	56	6.7	19.0	--	6.5	--	--	--
05...	9827	9827	65	7.2	28.0	5	8.9	113	2.8	190
13...	810	--	52	6.9	25.0	--	7.0	--	--	--
20...	810	--	64	7.0	21.0	--	6.8	--	--	--
25...	810	--	79	7.0	18.0	--	6.6	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MAY										
09...	<8	--	--	--	--	--	--	4.0	4.5	33
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
06...	140	--	--	--	--	--	--	2.0	4.5	36
13...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
11...	96	26	7.0	2.0	2.4	1.0	25	4.0	--	42
17...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
08...	16	--	--	--	--	--	--	1.0	4.0	44
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEP										
04...	--	--	--	--	--	--	--	--	--	--
05...	130	--	--	--	--	--	--	--	4.0	39
13...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)
MAY									
04...	1	.04	.01	.10	.04	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
06...	8	--	<.01	.01	.05	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
JUL									
06...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	9	.06	.01	.07	.03	.27	.30	.37	1.6
17...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
AUG									
07...	--	--	--	--	--	--	--	--	--
08...	6	.04	.01	.05	.03	.57	.60	.65	2.9
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
SEP									
04...	--	--	--	--	--	--	--	--	--
05...	3	<.01	.01	.01	.08	.62	.70	.71	3.1
13...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
MAY									
09...	.05	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUN									
06...	--	--	--	--	--	--	--	--	--
06...	.10	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
JUL									
06...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
11...	.12	<10	<5	40	60	<10	18	<1.0	50
17...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
AUG									
07...	--	--	--	--	--	--	--	--	--
08...	.02	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
04...	--	--	--	--	--	--	--	--	--
05...	.05	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--

07358500 LAKE HAMILTON NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°26'36", long 93°01'33", in sec.27, T.3 S., R.19 W., Garland County, Hydrologic Unit 08040101, at Carpenter Dam on Ouachita River, 1.5 mi (2.5 km) downstream from Hot Springs Creek, and 4.5 mi (7.2 km) southeast of Hot Springs.

DRAINAGE AREA.--1,441 mi^2 (3,832 km^2).

PERIOD OF RECORD.--December 1930 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

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

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Dec. 17, 1930. Capacity at top of taintor gates, 190,100 acre-ft (234 hm^3), elevation, 400 ft (121.9 m); at spillway crest, 70,560 acre-ft (87.0 hm^3), elevation, 375 ft (114.3 m). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 208,100 acre-ft (257 hm^3) Mar. 31, 1945, elevation, 402.28 ft (122.615 m); minimum since top of gates was first reached, 70,600 acre-ft (87.0 hm^3) Feb. 13, 14, 16, 1936, elevation, 375.01 ft (114.303 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 183,200 acre-ft (226 hm^3) Oct. 31, elevation, 399.00 ft (121.615 m); minimum observed, 158,100 acre-ft (195 hm^3) Dec. 31, elevation, 395.07 ft (120.417 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	398.98	183,000	-
OCT. 31	399.00	183,200	+200
NOV. 30	395.26	159,300	-23,900
DEC. 31	395.07	158,100	-1,200
CALENDAR YEAR 1977	-	-	+700
JAN. 31	395.25	159,200	+1,100
FEB. 28	395.08	158,200	-1,000
MAR. 31	398.05	176,900	+18,700
APR. 30	398.17	177,700	+800
MAY 31	398.86	182,200	+4,500
JUNE 30	398.95	182,800	+600
JULY 31	398.95	182,800	0
AUG. 31	398.95	182,800	0
SEPT. 30	398.97	183,000	+200
WATER YEAR 1978	-	-	0

†Elevation at 2400 hours.

07358501 OUACHITA RIVER AT CARPENTER DAM, NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°26'36", long 93°01'29", in sec.27, T.3 S., R.19 W., Garland County, Hydrologic Unit 08040101, at dam, 1.5 mi (2.5 km) downstream from Hot Springs Creek, and 4.5 mi (7.2 km) southeast of Hot Springs.

DRAINAGE AREA.--1,441 mi² (3,732 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	55	7.0	22.0	0	5.9	67	3.1	4	--
NOV											
15...	9827	9827	68	7.4	16.0	0	7.6	80	2.2	<4	--
DEC											
13...	9827	9827	60	--	14.5	10	10.1	97	1.7	80	--
FEB											
14...	9827	9827	59	7.3	9.0	--	12.5	108	3.4	<4	--
20...	9827	9827	57	7.1	8.0	5	12.8	108	2.6	<3	17
MAR											
14...	9827	9827	60	7.2	11.0	5	12.3	111	3.2	27	--
APR											
11...	9827	9827	60	7.1	15.0	5	11.7	115	3.4	6	17
MAY											
09...	9827	9827	56	7.2	15.0	5	10.2	100	1.5	50	--
JUN											
06...	9827	9827	71	7.1	18.0	--	8.7	92	1.5	560	--
JUL											
11...	9827	9827	65	6.9	21.0	5	7.0	78	1.7	130	26
AUG											
08...	9827	9827	66	7.0	21.0	5	6.0	67	2.1	20	--
SEP											
05...	9827	9827	65	6.9	22.0	0	5.0	57	3.0	33	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
18...	7.0	1.8	2.3	.9	22	5.0	4.0	45	5	.08
NOV										
15...	--	--	--	--	--	4.0	4.0	38	9	.05
DEC										
13...	--	--	--	--	--	5.0	4.5	47	5	.05
FEB										
14...	--	--	--	--	--	6.0	4.5	43	5	.16
20...	5.0	1.0	2.1	.8	22	5.0	--	48	5	.15
MAR										
14...	--	--	--	--	--	9.0	4.0	35	5	.11
APR										
11...	4.0	1.7	2.0	.9	24	2.0	5.0	--	4	.08
MAY										
09...	--	--	--	--	--	4.0	4.0	34	3	.08
JUN										
06...	--	--	--	--	--	6.0	4.0	36	12	--
JUL										
11...	7.0	2.0	2.0	.9	24	4.0	--	42	7	.11
AUG										
08...	--	--	--	--	--	<1.0	4.5	48	4	.13
SEP										
05...	--	--	--	--	--	--	4.0	34	4	.14

07358501 OUACHITA RIVER AT CARPENTER DAM, NEAR HOT SPRINGS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
18...	<.05	.08	.17	.02	<10	<5	<10	410	--	170
NOV										
15...	<.05	.06	.10	.01	--	--	--	--	--	--
DEC										
13...	<.05	.06	.07	.06	--	--	--	--	--	--
FEB										
14...	<.01	.16	.02	.04	--	--	--	--	--	--
20...	.01	.16	.05	.01	10	<5	20	190	<10	25
MAR										
14...	.01	.12	.05	.02	--	--	--	--	--	--
APR										
11...	.01	.09	.05	.05	<10	7	<20	170	<10	28
MAY										
09...	.00	.08	.06	.05	--	--	--	--	--	--
JUN										
06...	<.01	.10	.07	.07	--	--	--	--	--	--
JUL										
11...	.01	.12	.04	.05	<10	<5	50	160	<10	83
AUG										
08...	.01	.14	.05	.05	--	--	--	--	--	--
SEP										
05...	.01	.15	.14	.05	<10	--	<20	210	--	230

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
18...	--	110	--	--	--	--	--	--	--	--
NOV										
15...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
13...	--	--	--	--	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	--	--	--
20...	--	20	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
11...	--	30	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	<10	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	20	--	--	--	--	--	--	--	--

07359000 LAKE CATHERINE AT JONES MILL, AR

LOCATION.--Lat 34°25'35", long 92°53'40", in SW¼NW¼ sec.36, T.3 S., R.18 W., Hot Spring County, Hydrologic Unit 08040102, at Remmel Dam on Ouachita River at Jones Mill.

DRAINAGE AREA.--1,516 mi² (3,926 km²).

PERIOD OF RECORD.--October 1924 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 10, 1956, nonrecording gage at present site and datum.

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Oct. 11, 1924. Capacity at top of taintor gates, 35,250 acre-ft (43.5 hm³), elevation, 305 ft (93.0 m); at spillway crest, 13,950 acre-ft (17.2 hm³), elevation 290 ft (88.4 m). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 591,600 acre-ft (72.9 hm³) Apr. 21, 1927, elevation, 315.75 ft (96.241 m); minimum since top of gates was first reached, 16,370 acre-ft (20.2 hm³) Feb. 7, 1925, elevation, 292.34 ft (89.105 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 34,620 acre-ft (42.7 hm³) Mar. 31, elevation, 304.67 ft (92.863 m); minimum observed, 24,890 acre-ft (30.7 hm³) Dec. 31, elevation, 298.97 ft (91.126 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	303.99	33,320	-
OCT. 31	304.10	33,530	+210
NOV. 30	304.51	34,310	+780
DEC. 31	298.97	24,890	-9,420
CALENDAR YEAR 1977	-	-	-50
JAN. 31	299.23	25,290	+400
FEB. 28	300.15	26,720	+1,430
MAR. 31	304.67	34,620	+7,900
APR. 30	304.14	33,610	-1,010
MAY 31	303.97	33,280	-330
JUNE 30	304.04	33,420	+140
JULY 31	304.10	33,530	+110
AUG. 31	304.05	33,440	-90
SEPT. 30	304.18	33,680	+240
WATER YEAR 1978	-	-	+360

† Elevation at 2400 hours.

07359500 OUACHITA RIVER NEAR MALVERN, AR

LOCATION.--Lat 34°23'10", long 92°50'20", in NW¼ sec.16, T.4 S., R.17 W., Hot Spring County, Hydrologic Unit 08040102, near right bank on downstream side of bridge on State Highway 84, 2.0 mi (3.2 km) northwest of Malvern, 5.8 mi (9.3 km) downstream from Remmel Dam, and at mile 450.1 (724.2 km).

DRAINAGE AREA.--1,562 mi² (4,046 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1903 to April 1905, June 1922 to September 1925 (fragmentary), October 1925 to April 1927, January 1928 to current year. Published as "at Remmel Dam, near Malvern" January 1925 to March 1937.

REVISED RECORDS.--WSP 587: 1923. WSP 857: 1923(M). WSP 977: 1942. WSP 1211: Drainage area. WSP 1391: 1903-4.

GAGE.--Water-stage recorder. Datum of gage is 228.05 ft (69.510 m) National Geodetic Vertical Datum of 1929. March 1903 to April 1905, nonrecording gage at present site at datum 2.0 ft (0.6 m) higher. June 1922 to September 1924, nonrecording gage at present site and datum. January 1925 to March 1937, water-stage recorder at Remmel Dam, 5.8 mi (9.3 km) upstream at datum 20.11 ft (6.130 m) higher.

REMARKS.--Records good. Flow regulated by Lake Catherine, 5.8 mi (9.3 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), and by Lake Ouachita since July 1952 (see station 07357500).

AVERAGE DISCHARGE.--51 years (1925-26, 1928-78), 2,354 ft³/s (66.7 m³/s), 1,705,000 acre-ft/yr (2,100 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140,000 ft³/s (3,960 m³/s) May 15, 1923, gage height, 30.3 ft (9.24 m); minimum, 34 ft³/s (0.96 m³/s) May 15, 1977; gage height, 0.33 ft (0.101 m); minimum daily observed, 40 ft³/s (1.13 m³/s) Dec. 18-20, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,000 ft³/s (623 m³/s) Mar. 23, gage height, 14.36 ft (4.377 m); minimum, 54 ft³/s (1.53 m³/s) Oct. 3, gage height, 0.57 ft (0.174 m); minimum daily, 308 ft³/s (8.72 m³/s) Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	1990	3130	647	2510	2090	2960	2890	951	869	1090	525
2	945	3690	2920	728	1290	2530	2840	3340	810	894	1090	497
3	305	2780	1240	964	1320	2620	3270	5380	467	1500	610	636
4	474	1030	1040	657	1540	3000	3330	5780	445	1030	465	675
5	448	737	1430	735	2200	2180	2690	6070	842	525	528	722
6	475	647	3090	522	3100	1290	1950	6690	633	569	495	1600
7	544	1580	3070	699	3050	4080	2370	9840	1660	478	598	540
8	430	1010	2870	818	2100	3950	1990	12000	1370	1140	469	560
9	431	705	2370	2680	1780	2950	1210	7480	501	1150	617	508
10	326	496	2370	1960	1260	3160	2270	9450	488	869	557	439
11	434	580	1500	2040	1590	2380	2130	7790	429	826	475	596
12	594	399	1700	1600	1640	631	1970	5800	1660	780	414	544
13	654	442	1020	2180	2770	2420	2140	3370	1320	1170	435	5310
14	1360	436	1030	2280	3280	7080	2340	1050	439	810	775	4490
15	520	1440	1620	1900	2690	4440	2740	1750	557	617	1150	867
16	466	7230	842	2420	2220	4540	1010	1420	746	1080	1310	1140
17	1290	6850	1030	4900	2580	3670	2110	1730	1090	1200	1350	934
18	535	2920	1700	3840	2330	3350	4500	2610	763	949	1230	1520
19	493	1180	1180	3180	1130	3340	3440	2710	1540	1080	696	3670
20	1120	681	1200	2850	2210	3750	812	1880	567	1170	503	2480
21	1640	3210	1530	1590	1670	3750	1890	1050	2100	709	1130	998
22	385	2370	1240	1250	2230	3350	763	1840	893	556	1030	522
23	463	2370	791	1710	2570	3480	5200	1920	517	580	996	508
24	1070	958	522	3100	2340	4460	3010	1860	945	573	1210	409
25	484	1670	775	6040	2400	4410	3750	2260	1640	1600	1280	583
26	495	1650	530	6630	1750	3800	3460	2080	1930	1540	763	464
27	597	963	668	3570	1850	5620	2550	2160	1480	763	447	478
28	394	2220	892	3970	1700	2920	1490	1690	1730	1030	531	536
29	441	2560	1600	2850	---	766	2170	510	1320	1970	2300	522
30	441	3280	828	2130	---	1880	2290	754	605	1500	647	435
31	443	---	615	2030	---	2830	---	944	---	1070	480	---
TOTAL	20280	57964	46893	72870	59150	101657	74145	116298	30238	30597	25671	33708
MEAN	654	1932	1513	2351	2113	3279	2472	3752	1008	987	828	1124
MAX	1640	7230	3130	6630	3280	7080	5200	12000	2100	1970	2300	5310
MIN	308	399	522	522	1130	631	763	510	429	478	414	409
AC-FT	40230	115000	93010	144500	117300	201600	147100	230700	59980	60690	50920	66860

CAL YR 1977 TOTAL 573411 MEAN 1571 MAX 18200 MIN 280 AC-FT 1137000
WTR YR 1978 TOTAL 669471 MEAN 1834 MAX 12000 MIN 308 AC-FT 1328000

07359500 OUACHITA RIVER NEAR MALVERN, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-50, October 1970 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)
OCT											
20...	1028	1028	--	264	6.9	17.0	--	7.1	76	--	--
25...	9827	9827	--	201	7.0	19.0	0	6.3	67	1.5	270
NOV											
23...	1028	1028	--	125	6.7	14.5	--	8.5	86	--	--
30...	9827	9827	--	183	7.1	8.0	10	8.2	69	1.0	100
DEC											
20...	9827	9827	--	166	7.0	12.0	5	7.9	73	2.0	--
22...	1028	1028	--	160	6.7	9.5	--	10.4	94	--	--
JAN											
10...	1028	--	3570	--	--	5.5	--	--	--	--	--
24...	9827	9827	--	116	6.8	7.0	10	11.6	95	2.2	1100
FEB											
22...	9827	9827	--	143	7.1	5.0	10	10.9	85	2.0	820
22...	1028	--	3580	--	--	7.5	--	--	--	--	--
MAR											
20...	9827	9827	--	128	7.3	12.0	5	11.7	108	2.3	1200
APR											
13...	1028	--	3460	--	--	17.0	--	--	--	--	--
18...	9827	9827	--	144	7.1	18.0	5	9.5	100	1.3	1000
MAY											
16...	9827	9827	--	106	6.9	18.0	15	9.8	103	.9	130
18...	1028	--	2990	--	--	17.0	--	--	--	--	--
JUN											
13...	9827	9827	--	80	7.1	22.0	10	7.1	81	.7	200
15...	1028	1028	--	79	6.9	25.5	--	9.6	120	--	--
26...	1028	--	168	--	--	24.0	--	--	--	--	--
JUL											
18...	9827	9827	--	--	7.2	27.0	5	7.1	88	9.0	100
AUG											
08...	1028	--	79	--	--	26.0	--	--	--	--	--
14...	9827	9827	--	--	7.0	26.0	0	--	91	1.5	170
SEP											
12...	9827	9827	--	75	7.0	25.0	5	7.5	89	.7	--
27...	1028	--	70	--	--	22.0	--	--	--	--	--

07359500 OUACHITA RIVER NEAR MALVERN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
20...	--	--	--	--	--	--	--	--	--	--
25...	29	35	10	2.3	26	3.9	16	25	34	172
NOV										
23...	--	--	--	--	--	--	--	--	--	--
30...	130	--	--	--	--	--	--	6.0	26	120
DEC										
20...	--	--	--	--	--	--	--	25	20	117
22...	--	--	--	--	--	--	--	--	--	--
JAN										
10...	--	--	--	--	--	--	--	--	--	--
24...	190	28	6.8	3.0	12	2.1	16	16	19	89
FEB										
22...	35	--	--	--	--	--	--	--	23	105
22...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	120	--	--	--	--	--	--	--	24	107
APR										
13...	--	--	--	--	--	--	--	--	--	--
18...	45	44	14	2.3	15	1.5	21	8.0	23	122
MAY										
16...	20	--	--	--	--	--	--	2.0	16	--
18...	--	--	--	--	--	--	--	--	--	--
JUN										
13...	5	--	--	--	--	--	--	10	7.0	74
15...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	<4	43	12	3.9	14	1.3	27	5.0	7.5	114
AUG										
08...	--	--	--	--	--	--	--	--	--	--
14...	10	--	--	--	--	--	--	6.0	5.5	120
SEP										
12...	--	--	--	--	--	--	--	7.0	6.5	106
27...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)
OCT										
20...	--	--	--	--	--	--	--	--	--	--
25...	1	.30	.06	.36	.53	.27	.80	1.2	5.1	.06
NOV										
23...	--	--	--	--	--	--	--	--	--	--
30...	24	.21	.01	.20	.10	1.4	1.5	1.7	7.5	.07
DEC										
20...	5	.67	.08	.75	.51	.69	1.2	1.9	8.6	.09
22...	--	--	--	--	--	--	--	--	--	--
JAN										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	.17	<.05	.18	.22	1.1	1.3	1.5	6.6	.09
FEB										
22...	15	.47	.02	.49	.51	.09	.60	1.1	4.8	.11
22...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	.23	.01	.24	.11	.99	1.1	1.3	5.9	.08
APR										
13...	--	--	--	--	--	--	--	--	--	--
18...	6	.14	.01	.15	.09	.41	.50	.65	2.9	--
MAY										
16...	4	.13	.02	.15	.16	--	--	--	--	.06
18...	--	--	--	--	--	--	--	--	--	--
JUN										
13...	7	.15	.01	.16	.13	--	--	--	--	.04
15...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	6	.15	.01	.16	.11	--	.10	.26	1.2	.13
AUG										
08...	--	--	--	--	--	--	--	--	--	--
14...	--	.15	.01	.16	.13	--	--	--	--	.10
SEP										
12...	9	.68	.07	.75	.45	--	<.10	--	--	.05
27...	--	--	--	--	--	--	--	--	--	--

07359500 OUACHITA RIVER NEAR MALVERN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT											
20...	--	--	--	--	--	--	--	--	--	3.6	--
25...	<10	<5	<10	160	20	140	--	30	--	--	--
NOV											
23...	--	--	--	--	--	--	--	--	--	3.5	.6
30...	<10	--	<20	1100	--	860	--	60	--	--	--
DEC											
20...	<10	--	220	400	--	170	--	70	--	--	--
22...	--	--	--	--	--	--	--	--	--	2.7	.6
JAN											
24...	<10	<5	30	870	50	260	--	40	--	--	--
FEB											
22...	<10	--	<20	350	--	180	--	30	--	--	--
MAR											
20...	<10	--	<20	380	--	120	--	20	--	--	--
APR											
18...	10	<5	<20	250	40	140	--	20	--	--	--
MAY											
16...	<10	--	<20	310	--	160	--	10	--	--	--
JUN											
13...	<10	--	20	150	--	120	--	150	--	--	--
15...	--	--	--	--	--	--	--	--	2.3	--	--
JUL											
18...	<10	<5	<20	110	60	100	<1.0	20	--	--	--
AUG											
14...	<10	--	30	440	--	130	--	20	--	--	--
SEP											
12...	<10	--	<20	450	--	160	--	70	--	--	--

DATE	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	8	76
30...	--	--	--	--	--	--	--	--	--	--
DEC										
20...	.00	.00	.00	.00	.00	.00	.00	0	--	--
22...	--	--	--	--	--	--	--	--	9	65
JAN										
24...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
18...	--	--	--	--	--	--	--	--	--	--
MAY										
16...	--	--	--	--	--	--	--	--	--	--
JUN										
13...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	--	--	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
12...	--	--	--	--	--	--	--	--	--	--

07359580 OUACHITA RIVER NEAR DONALDSON, AR

LOCATION.--Lat 34°14'16", long 92°57'32", in NE¼ sec.5 T.5 S., R.18 W., Hot Spring County, Hydrologic Unit 08040102, at bridge on U.S. Highway 67, 2.0 mi (3.2 km) west of Donaldson, 3.6 mi (5.8 km) downstream from Black Branch.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
25...	9827	9827	201	7.0	19.0	0	6.8	72	1.0	25	--
NOV											
30...	9827	9827	125	7.0	8.0	5	8.4	71	1.2	140	--
DEC											
20...	9827	9827	136	7.2	11.0	5	9.6	86	.6	8	--
JAN											
24...	9827	9827	100	6.7	6.0	10	11.8	94	2.4	180	21
FEB											
21...	9827	9827	92	7.0	6.0	10	12.9	103	2.9	4	--
MAR											
20...	9827	9827	100	7.0	12.0	5	11.1	103	1.8	70	--
APR											
18...	9827	9827	138	6.9	22.0	10	8.8	100	1.6	150	39
MAY											
16...	9827	9827	93	6.7	27.0	20	8.5	105	1.0	68	--
JUN											
13...	9827	9827	77	6.9	26.0	10	7.5	85	1.2	210	--
JUL											
18...	9827	9827	102	7.4	27.0	5	6.8	84	1.1	130	12
AUG											
14...	9827	9827	--	7.3	28.0	0	--	105	1.6	--	--
SEP											
12...	9827	9827	83	7.0	25.0	0	6.9	82	.7	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
25...	10	2.0	15	4.2	16	26	18	114	6	.07
NOV										
30...	--	--	--	--	--	4.0	20	93	31	.16
DEC										
20...	--	--	--	--	--	18	17	80	4	.48
JAN										
24...	4.0	2.0	8.7	2.5	16	13	12	75	--	.34
FEB										
21...	--	--	--	--	--	--	13	62	16	.25
MAR										
20...	--	--	--	--	--	--	14	68	--	.20
APR										
18...	12	2.0	6.1	1.7	20	5.0	24	91	19	.17
MAY										
16...	--	--	--	--	--	3.0	13	--	9	.16
JUN										
13...	--	--	--	--	--	64	7.0	55	24	.14
JUL										
18...	1.0	2.0	3.9	1.4	23	3.0	9.5	53	12	.16
AUG										
14...	--	--	--	--	--	91	7.5	57	--	.16
SEP										
12...	--	--	--	--	--	9.0	6.5	56	8	.33

07359580 OUACHITA RIVER NEAR DONALDSON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
25...	.05	.12	.54	.03	10	<5	<10	290	20	110
NOV										
30...	<.05	.17	.04	.07	--	--	--	--	--	--
DEC										
20...	.05	.53	.29	.05	--	--	--	--	--	--
JAN										
24...	<.05	.35	.26	.18	<10	<5	<20	1200	<10	160
FEB										
21...	.01	.25	.13	.05	--	--	--	--	--	--
MAR										
20...	.01	.21	.08	.07	--	--	--	--	--	--
APR										
18...	.01	.18	.10	--	10	<5	<20	870	70	120
MAY										
16...	.02	.18	.17	.05	--	--	--	--	--	--
JUN										
13...	.01	.15	.13	.08	--	--	--	--	--	--
JUL										
18...	.01	.17	.09	.11	<10	<5	<20	340	50	130
AUG										
14...	.01	.17	.09	.09	--	--	--	--	--	--
SEP										
12...	.06	.39	.27	.04	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
25...	--	10	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
DEC										
20...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
24...	--	10	--	--	--	--	--	--	--	--
FEB										
21...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
18...	--	30	--	--	--	--	--	--	--	--
MAY										
16...	--	--	--	--	--	--	--	--	--	--
JUN										
13...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	<1.0	20	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
12...	--	--	--	--	--	--	--	--	--	--

07359770 CADDO RIVER NEAR AMITY, AR

LOCATION.--Lat 34°17'05", long 93°24'56", in NW¼SE¼ sec.24, T.5 S., R.23 W., Clark County, Hydrologic Unit 08040102, at bridge on State Highway 84, 2.9 mi (4.7 km) northeast of Amity.

PERIOD OF RECORD.--August 1972 to current year. August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	126	7.7	20.0	0	10.3	112	2.7	8	--
NOV											
15...	9827	9827	99	7.7	17.0	0	10.7	110	1.8	20	--
DEC											
13...	9827	9827	84	--	12.0	10	11.8	109	2.4	100	--
FEB											
14...	9827	9827	65	7.5	10.0	--	12.9	114	2.9	130	--
20...	9827	9827	58	7.1	8.0	5	13.5	113	2.6	4	20
MAR											
14...	9827	9827	60	7.1	16.0	35	10.6	106	2.0	900	--
APR											
11...	9827	9827	94	7.5	20.0	5	10.4	113	3.0	360	31
MAY											
09...	9827	9827	55	7.2	21.0	30	9.5	106	2.5	290	--
JUN											
06...	9827	9827	--	7.2	26.0	--	8.0	98	3.5	480	--
JUL											
11...	9827	9827	115	7.5	31.0	10	7.2	96	2.2	180	46
AUG											
08...	9827	9827	115	8.3	29.0	10	9.5	122	2.5	27	--
SEP											
05...	9827	9827	116	7.9	30.0	10	9.1	120	2.2	7	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT											
18...	23	2.5	2.6	.8	--	5.0	4.0	89	2	<.05	<.05
NOV											
15...	--	--	--	--	--	6.0	4.5	59	5	.14	<.05
DEC											
13...	--	--	--	--	--	6.0	5.0	61	2	.13	<.05
FEB											
14...	--	--	--	--	--	3.0	4.0	53	2	.12	.01
20...	6.0	1.0	2.6	.6	24	4.0	--	58	3	.11	.01
MAR											
14...	--	--	--	--	--	10	4.5	47	16	.21	.01
APR											
11...	9.0	1.9	2.5	1.0	38	2.0	4.5	--	6	.07	.01
MAY											
09...	--	--	--	--	--	4.0	4.0	32	11	.16	.01
JUN											
06...	--	--	--	--	--	8.0	3.5	64	58	.23	.01
JUL											
11...	15	2.0	2.5	1.0	52	11	--	71	5	.01	.01
AUG											
08...	--	--	--	--	--	<1.0	4.5	77	5	.03	.01
SEP											
05...	--	--	--	--	--	--	4.5	65	5	<.01	.01

07359770 CADDO RIVER NEAR AMITY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	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)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT											
18...	.00	<.05	.40	.40	1.8	--	<10	<5	<10	130	--
NOV											
15...	.15	.10	--	--	--	.02	--	--	--	--	--
DEC											
13...	.14	.09	--	--	--	.09	--	--	--	--	--
FEB											
14...	.13	.03	--	--	--	.06	--	--	--	--	--
20...	.12	.02	--	--	--	.01	<10	<5	70	310	<10
MAR											
14...	.22	.08	--	--	--	.05	--	--	--	--	--
APR											
11...	.08	.03	--	--	--	.04	<10	10	<20	290	<10
MAY											
09...	.17	.08	--	--	--	.08	--	--	--	--	--
JUN											
06...	.24	.09	--	--	--	.08	--	--	--	--	--
JUL											
11...	.02	.03	--	--	--	.06	<10	<5	50	250	10
AUG											
08...	.04	.02	--	--	--	.03	--	--	--	--	--
SEP											
05...	.01	.09	--	--	--	.05	--	--	--	--	--

DATE	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)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT											
18...	17	--	30	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
20...	30	--	60	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	35	--	20	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	65	<1.0	30	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR

LOCATION.--Lat 34°12'54", long 93°06'46", in NW¼SW¼ sec.14, T.6 S., R.20 W., Clark County, Hydrologic Unit 08040102, at DeGray Dam on Caddo River, 2.5 mi (4.0 km) upstream from DeGray Creek, 3.3 mi (5.3 km) northwest of Caddo Valley, 7.4 mi (11.9 km) northwest of Arkadelphia, and at mile 7.9 (12.7 km).
DRAINAGE AREA.--453 mi² (1,173 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1969 to current year.
GAGE.--Recording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 29, 1971, non-recording gage at present site and datum.
REMARKS.--Lake is formed by rolled earthfill dam with an uncontrolled 200-ft (61.0 m) wide spillway located in natural saddle 4,000 ft (1,220 m) east of left abutment of dam. The outlet works has portals to withdraw water from three different elevations. A regulating dam is located downstream from main dam. Storage began Aug. 7, 1969. Capacity between elevations 408.0 ft (124.36 m) and 423.0 ft (128.93 m) is 227,200 acre-ft (280 hm³), and is reserved for flood-control storage. Capacity between 367.0 ft (111.86 m) and 408.0 ft (124.36 m) is 393,200 acre-ft (485 hm³), and is reserved for water supply and power generation. Capacity below 367.0 ft (111.86 m) is 261,500 acre-ft (322 hm³), and is conservation storage. Lake is used for flood-control, power-development, water-supply, pollution-abatement, and recreation purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest	423.0 (128.93 m)	881,900 (1,090 hm³)
Top of power pool	408.0 (124.36 m)	654,700 (807 hm³)
Top of conservation pool	367.0 (111.86 m)	261,500 (322 hm³)
Bottom of lowest outlet	345.0 (105.16 m)	148,700 (183 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 796,800 acre-ft (982 hm³) June 11, 1974, elevation, 417.79 ft (127.342 m); minimum since initial filling of conservation pool, 282,100 acre-ft (348 hm³) June 22, 1970, elevation, 370.11 ft (112.810 m).
EXTREMES FOR WATER YEAR 1977.--Maximum contents, 686,800 acre-ft (847 hm³) Mar. 5, elevation, 410.33 ft (125.069 m); minimum, 542,000 acre-ft (668 hm³) Nov. 11, elevation, 398.94 ft (121.597 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 648,500 acre-ft (800 hm³) May 15, elevation, 407.54 ft (124.218 m); minimum, 556,400 acre-ft (686 hm³) Sept. 20, elevation, 400.18 ft (121.975 m).

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

398	531.3	407	641.3
401	566.1	411	696.0
404	602.7		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	568500	576300	550300	567800	589100	636300	658200	654000	636600	650100	646500	630200
2	567500	574800	550100	567800	589300	636700	653200	652300	635300	650000	646400	626500
3	567500	573600	550800	567900	590500	640900	652700	653800	634200	650000	646400	624600
4	567300	570300	551000	568100	591700	681300	652800	653800	634200	650000	645700	622300
5	566600	566200	551300	568500	592800	686500	652800	650400	634100	650000	645300	620600
6	567400	563500	552300	568700	594000	681000	652100	648800	634300	650000	645300	619200
7	567100	563100	553100	569200	595100	672600	653800	648700	634200	649300	645000	617700
8	567100	562300	553400	569200	596100	662900	652400	646700	634100	649300	644800	616300
9	564200	558100	553400	569300	596000	654700	653200	647300	633200	648800	644200	614500
10	564200	557200	553400	569800	596700	654400	652600	646000	632900	648900	643300	614500
11	564100	555800	555400	567300	597500	649100	653100	644100	632400	648900	643200	614500
12	560800	550500	559000	567300	605100	644400	653600	643000	631200	648500	643200	614300
13	560800	546100	561700	568400	612600	645600	654300	642800	632000	647500	642800	614100
14	560800	547900	563800	571100	616500	646700	653600	642000	632200	645600	642800	612700
15	560800	547600	565400	575900	619100	647600	653400	642000	632200	643800	642600	612700
16	560500	545400	566500	579200	620400	648100	650700	641700	632100	642600	641000	611200
17	560500	543500	566500	581300	621800	647900	649300	641700	642400	642600	638800	609400
18	560300	543000	567300	582400	623100	648700	650100	641200	651300	642400	640800	608200
19	560300	542800	568100	582200	624200	648700	653500	640900	651500	640600	638700	607600
20	560500	543400	569300	580800	625000	649100	655800	637400	652600	638800	638400	607300
21	560500	544000	567300	581800	625600	649500	654000	639800	653000	637700	638400	605000
22	560500	544300	566900	582200	626300	650400	650400	639800	652700	637500	638300	601900
23	558900	544800	567200	583300	628200	650400	650700	639800	652300	637700	638100	598100
24	558900	545200	567400	584600	629600	650700	652800	639800	652300	637700	637000	595200
25	563100	545700	568300	585700	631300	650500	654200	639800	652300	638700	636800	592900
26	570900	547000	568600	585900	632100	650500	653200	638500	652400	638500	635600	590300
27	572200	550200	568900	586700	633900	652100	653900	637400	651200	638500	635000	588500
28	572200	552600	569100	587800	635500	660900	653800	637000	650500	638700	635400	588000
29	572400	553800	568400	587800	---	680500	653900	637500	650500	639200	635300	586900
30	574000	549500	568400	588300	---	676200	654000	637500	650500	639100	635100	586500
31	575400	---	568600	588800	---	667700	---	636600	---	641400	633900	---
MAX	575400	576300	569300	588800	635500	686500	658200	654000	653000	650100	646500	630200
MIN	558900	542800	550000	567300	589100	636300	649300	636600	631200	637500	633900	586500
(†)	401.82	399.60	401.14	402.90	406.59	408.50	407.95	406.64	407.66	407.25	406.15	402.61
(‡)	+7400	-26300	+18200	+21300	+46800	+25500	-7400	-17400	+13500	-5500	-14400	-44700

CAL YR 1976 MAX 662800 MIN 542800 ‡ +12900
WTR YR 1977 MAX 686500 MIN 542800 ‡ +17000

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

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--CONTINUED

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585500	573900	609600	595700	601100	580000	625200	637900	637400	617100	589800	570200
2	581400	587600	610600	595900	594500	577600	625600	637100	636700	616900	589200	569900
3	581300	593300	611500	595900	600000	577000	625400	638400	636700	616400	588500	569900
4	581100	593900	611800	594900	600700	576400	623600	642100	636800	613700	588500	569900
5	581000	595100	612000	594900	601300	576300	622000	641600	637000	613600	588300	569900
6	581000	595900	608500	595800	600500	578000	621700	641000	637700	613400	588100	568000
7	580800	596400	605100	595800	597500	583100	621400	640800	638700	612500	588100	566200
8	580800	596400	601700	596500	592800	591700	620600	642500	638000	612100	588000	566200
9	580400	596900	599600	595200	591500	595600	620600	645700	637000	610100	586900	566000
10	580200	596500	596500	591700	589800	599300	620600	644200	637000	609800	585500	566000
11	579700	596000	593000	589600	588800	602100	620900	645700	637100	608500	584200	566000
12	579100	595700	592600	585400	587500	604100	620600	647500	637200	607400	583100	565900
13	578700	595400	592000	582000	589600	606000	621000	648000	636000	606600	583100	566800
14	578100	595500	593600	576700	588200	612000	621700	647700	634100	605600	582700	566500
15	577400	595200	594300	572400	588000	613600	622300	648300	634100	605400	582700	567300
16	576900	594700	594900	572200	585700	614400	622300	647500	633900	605400	579900	567700
17	576700	600100	595200	577500	585400	614400	622500	646800	633800	604300	579400	565600
18	576000	600500	595600	579300	585000	613700	620500	645900	631500	603000	576500	565400
19	576000	600800	596100	579100	584800	614500	618300	645000	631300	600300	574400	561500
20	575600	601400	596600	579400	585400	614600	619100	643200	631300	600200	574600	558400
21	575100	603600	596200	580700	584600	615800	620100	643200	630200	598300	574400	556400
22	574400	604000	595100	581100	582500	615000	620600	644400	627700	598000	572400	558500
23	574400	605200	595100	582500	581300	614300	620400	645700	627700	597500	571500	558500
24	574400	605400	595400	584900	580700	614500	619900	644900	627200	597200	569200	558500
25	574100	605900	595900	590700	580000	617600	618000	643800	624600	597100	568000	558500
26	574100	606600	595900	596200	580500	620100	618200	641800	623200	595600	566900	558400
27	574100	604100	596000	597800	581100	621400	617100	639500	620800	594700	566800	558400
28	573400	604700	596100	599800	580300	621300	617700	637600	619200	594700	566600	558400
29	573200	604900	596100	600100	---	622400	618800	638100	617900	592600	567700	558300
30	573200	606000	595900	601300	---	623600	640400	638100	617300	590900	570200	557600
31	572700	---	595500	601700	---	624700	---	637700	---	590300	570200	---
MAX	585500	606600	612000	601700	601300	624700	640400	648300	638700	617100	589800	570200
MIN	572700	573900	592000	572200	580000	576300	618300	637100	617300	590300	566600	556400
(†)	401.59	404.48	403.42	403.86	402.15	406.74	405.77	406.70	405.15	402.96	401.34	400.23
(‡)	-12300	+35600	-13300	+5500	-21100	+58000	-12700	+12200	-20100	-27500	-19600	-13200

CAL YR 1977 MAX 686500 MIN 567300 ‡ +27700
WTR YR 1978 MAX 648300 MIN 556400 ‡ -28500

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

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--CONTINUED

PERIOD OF RECORD.--August 1972 to July 1973, September 1974 to current year. August 1973 to July 1974 in reports of Corps of Engineers, Vicksburg, Miss.
COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
17...	810	.0	59	7.0	21.0	8.6
17...	810	6.6	60	7.0	21.0	8.5
17...	810	13	62	7.1	20.5	8.3
17...	810	20	63	7.1	20.5	8.3
17...	810	26	63	7.1	20.5	8.3
17...	810	33	62	7.1	14.0	3.0
17...	810	39	64	6.9	12.0	3.3
17...	810	46	66	6.5	10.5	4.2
17...	810	52	67	6.5	9.5	4.9
17...	810	59	69	6.5	8.0	5.6
17...	810	66	71	6.5	8.0	5.9
17...	810	72	73	6.5	7.0	5.9
17...	810	79	74	6.5	7.0	6.1
17...	810	85	77	6.5	7.0	6.0
17...	810	92	78	6.5	6.5	5.5
17...	810	98	79	6.5	6.5	5.2
17...	810	105	79	6.5	6.5	5.4
17...	810	112	81	6.5	6.0	5.3
17...	810	118	81	6.4	6.0	5.2
17...	810	125	82	6.3	6.0	4.7
17...	810	131	84	6.3	6.0	4.8
17...	810	138	84	6.3	6.0	4.8
17...	810	144	86	6.3	6.0	4.5
17...	810	151	88	6.3	6.0	4.5
17...	810	157	100	6.3	6.0	1.1
17...	810	164	115	6.5	6.0	.6
NOV						
22...	810	.0	66	7.0	15.0	8.5
22...	810	6.6	65	7.0	15.0	8.3
22...	810	13	65	7.0	14.5	8.3
22...	810	20	65	7.0	14.5	8.4
22...	810	26	65	7.0	14.5	8.2
22...	810	33	65	7.0	14.5	8.2
22...	810	39	65	6.6	11.0	1.7
22...	810	46	65	6.4	10.5	2.3
22...	810	52	64	6.5	9.0	3.0
22...	810	59	65	6.5	8.5	3.7
22...	810	66	66	6.5	8.0	4.1
22...	810	72	65	6.5	7.0	4.2
22...	810	79	65	6.5	7.0	4.5
22...	810	85	66	6.5	6.5	4.5
22...	810	92	64	6.5	6.5	4.3
22...	810	98	65	6.5	6.0	4.4
22...	810	105	66	6.5	6.0	4.4
22...	810	112	68	6.5	6.0	4.0
22...	810	118	68	6.5	6.0	4.1
22...	810	125	69	6.5	6.0	4.1
22...	810	131	69	6.5	6.0	4.1
22...	810	138	70	6.5	6.0	3.9
22...	810	144	70	6.5	6.0	3.7
22...	810	151	72	6.5	6.0	3.8
22...	810	157	86	6.5	6.0	.8
22...	810	164	97	6.6	6.0	.5
DEC						
27...	810	.0	59	6.9	9.0	9.4
27...	810	6.6	61	6.9	9.0	9.4
27...	810	13	62	6.9	9.0	9.0
27...	810	20	63	6.9	9.0	9.0
27...	810	26	63	6.9	9.0	8.9
27...	810	33	64	6.9	9.0	8.9
27...	810	39	64	6.9	9.0	8.8
27...	810	46	66	6.9	9.0	8.8
27...	810	52	67	6.9	9.0	8.7
27...	810	59	67	6.9	9.0	8.7
27...	810	66	68	6.9	9.0	8.7
27...	810	72	71	6.9	9.0	8.6
27...	810	79	75	6.6	8.0	3.0
27...	810	85	77	6.5	7.0	2.2
27...	810	92	78	6.5	7.5	2.2
27...	810	98	80	6.5	7.0	2.1
27...	810	105	80	6.5	7.0	1.8
27...	810	112	82	6.5	7.0	1.8
27...	810	118	82	6.5	7.0	1.7
27...	810	125	86	6.5	7.0	1.7
27...	810	131	88	6.5	7.0	1.6
27...	810	138	89	6.5	7.0	1.6
27...	810	144	90	6.5	7.0	1.5
27...	810	151	92	6.5	7.0	1.5
27...	810	157	93	6.5	7.0	1.1
27...	810	164	94	6.5	7.0	1.1

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB						
02...	810	.0	56	6.8	4.0	10.1
02...	810	6.6	57	6.8	4.0	10.0
02...	810	13	58	6.8	4.0	9.9
02...	810	20	60	6.8	4.0	9.8
02...	810	26	61	6.8	4.0	9.7
02...	810	33	63	6.8	4.0	9.6
02...	810	39	65	6.7	4.0	9.6
02...	810	46	67	6.7	4.0	9.6
02...	810	52	68	6.7	4.0	9.6
02...	810	59	68	6.7	4.0	9.6
02...	810	66	70	6.7	4.0	9.6
02...	810	72	70	6.8	4.0	9.5
02...	810	79	71	6.7	4.0	9.5
02...	810	85	71	6.7	4.0	9.5
02...	810	92	72	6.8	4.0	9.5
02...	810	98	72	6.8	4.0	9.5
02...	810	105	74	6.8	4.0	9.5
02...	810	112	75	6.8	4.0	9.5
02...	810	118	78	6.8	4.0	9.5
02...	810	125	79	6.8	4.0	9.5
02...	810	131	81	6.8	4.0	9.5
02...	810	138	81	6.8	4.0	9.5
02...	810	144	82	6.8	4.0	9.5
02...	810	151	82	6.8	4.0	9.5
02...	810	157	83	6.8	4.0	9.5
02...	810	164	83	6.8	4.0	9.5
MAR						
06...	810	.0	62	6.7	4.5	11.0
06...	810	6.6	63	6.7	4.0	11.1
06...	810	13	63	6.7	4.0	11.1
06...	810	20	64	6.7	4.0	11.0
06...	810	26	64	6.7	4.0	10.9
06...	810	33	64	6.7	4.0	11.0
06...	810	39	64	6.7	4.0	11.0
06...	810	46	64	6.7	4.0	11.0
06...	810	52	65	6.7	4.0	11.0
06...	810	59	67	6.7	4.0	11.0
06...	810	66	67	6.7	4.0	10.8
06...	810	72	67	6.7	4.0	11.0
06...	810	79	67	6.7	4.0	10.9
06...	810	85	67	6.7	4.0	10.8
06...	810	92	67	6.7	4.0	10.8
06...	810	98	67	6.6	4.0	10.9
06...	810	105	67	6.6	4.0	10.9
06...	810	112	67	6.6	4.0	10.8
06...	810	118	67	6.6	4.0	10.8
06...	810	125	67	6.7	4.0	10.8
06...	810	131	68	6.6	4.0	10.8
06...	810	138	68	6.7	4.0	10.9
06...	810	144	70	6.6	4.0	10.9
06...	810	151	70	6.6	4.0	10.9
06...	810	157	70	6.7	3.5	10.8
06...	810	164	70	6.7	4.0	10.9
APR						
11...	810	.0	62	7.0	18.5	9.7
11...	810	6.6	62	7.0	18.5	9.8
11...	810	13	62	7.0	18.0	9.9
11...	810	20	61	7.0	17.0	10.2
11...	810	26	61	7.0	15.0	10.4
11...	810	33	61	7.0	10.5	11.2
11...	810	39	62	7.0	9.0	11.2
11...	810	46	63	7.0	8.0	11.2
11...	810	52	62	7.0	6.0	11.2
11...	810	59	63	7.0	5.5	11.2
11...	810	66	61	7.0	5.5	11.2
11...	810	72	62	7.0	5.0	11.2
11...	810	79	62	6.9	5.0	11.2
11...	810	85	62	6.9	4.5	11.4
11...	810	92	63	6.9	4.5	11.1
11...	810	98	65	6.9	4.5	10.8
11...	810	105	65	6.9	4.5	10.9
11...	810	112	65	6.9	4.5	11.1
11...	810	118	66	6.9	4.5	11.0
11...	810	125	66	6.9	4.5	11.0
11...	810	131	68	6.9	4.5	11.0
11...	810	138	68	6.9	4.5	11.1
11...	810	144	68	6.9	4.5	11.0
11...	810	151	69	6.9	4.5	11.0
11...	810	157	70	6.9	4.5	11.0
11...	810	164	70	6.9	4.5	11.0

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
MAY						
16...	810	.0	59	7.4	19.0	9.6
16...	810	6.6	59	7.3	19.0	9.7
16...	810	13	60	7.2	18.5	9.8
16...	810	20	60	7.1	17.5	9.3
16...	810	26	59	7.0	16.0	9.2
16...	810	33	61	6.9	13.0	9.1
16...	810	39	61	6.9	9.0	9.4
16...	810	46	62	6.8	7.5	9.9
16...	810	52	61	6.8	6.0	10.2
16...	810	59	61	6.8	5.5	10.3
16...	810	66	62	6.8	5.0	10.4
16...	810	72	59	6.8	5.0	10.3
16...	810	79	60	6.8	5.0	10.4
16...	810	85	60	6.8	5.0	10.5
16...	810	92	61	6.8	4.5	10.0
16...	810	98	61	6.8	4.5	10.2
16...	810	105	61	6.8	4.5	10.2
16...	810	112	63	6.8	4.5	10.2
16...	810	118	63	6.8	4.5	10.2
16...	810	125	63	6.8	4.5	10.3
16...	810	131	64	6.8	4.5	10.3
16...	810	138	65	6.8	4.5	10.2
16...	810	144	65	6.8	4.5	10.2
16...	810	151	67	6.8	4.0	10.2
16...	810	157	68	6.8	4.0	10.1
16...	810	164	70	6.8	4.0	10.0
JUN						
28...	810	.0	55	7.3	31.0	7.2
28...	810	6.6	56	7.3	31.0	7.6
28...	810	13	56	7.3	30.0	7.6
28...	810	20	52	7.2	23.0	8.7
28...	810	26	51	6.9	19.0	6.9
28...	810	33	54	6.9	15.5	6.6
28...	810	39	52	6.8	10.5	6.9
28...	810	46	52	6.8	8.5	7.3
28...	810	52	52	6.8	7.0	7.4
28...	810	59	51	6.8	6.5	7.7
28...	810	66	51	6.7	6.0	7.6
28...	810	72	52	6.7	5.5	7.7
28...	810	79	52	6.8	5.0	7.7
28...	810	85	52	6.8	5.0	7.9
28...	810	92	52	6.8	5.0	7.8
28...	810	98	52	6.8	4.5	7.9
28...	810	105	52	6.8	4.5	8.2
28...	810	112	52	6.8	4.5	8.2
28...	810	118	52	6.8	4.5	8.3
28...	810	125	52	6.8	4.5	8.4
28...	810	131	52	6.8	4.5	8.6
28...	810	138	52	6.8	4.5	8.4
28...	810	144	53	6.8	4.5	8.4
28...	810	151	53	6.8	4.0	8.7
28...	810	157	53	6.7	4.0	8.7
SEP						
13...	810	.0	65	7.5	26.0	7.3
13...	810	6.6	67	7.4	26.0	7.3
13...	810	13	67	7.2	26.0	7.4
13...	810	20	65	7.0	25.0	7.4
13...	810	26	63	6.8	22.0	4.4
13...	810	33	61	6.6	14.5	5.2
13...	810	39	62	6.6	12.0	5.8
13...	810	46	64	6.6	10.0	6.5
13...	810	52	63	6.6	9.0	6.8
13...	810	59	64	6.6	8.5	7.2
13...	810	66	64	6.6	8.0	7.4
13...	810	72	64	6.6	8.0	7.5
13...	810	79	64	6.6	8.0	7.4
13...	810	85	64	6.6	8.0	7.4
13...	810	92	65	6.6	7.5	7.4
13...	810	98	65	6.5	7.5	7.4
13...	810	105	66	6.5	7.0	7.3
13...	810	112	66	6.5	7.5	7.4
13...	810	118	66	6.5	7.5	7.4
13...	810	125	66	6.6	7.5	7.4
13...	810	131	66	6.6	7.5	7.4
13...	810	138	66	6.6	7.5	7.4
13...	810	144	67	6.6	7.5	7.4
13...	810	151	68	6.6	7.0	7.4
13...	810	157	69	6.4	7.0	7.2
13...	810	164	72	6.3	7.0	7.3

07359910 CADDO RIVER AT DEGRAY REGULATING DAM, NEAR ARKADELPHIA, AR

LOCATION.--Lat 34°10'38", long 93°06'00", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, Hydrologic Unit 08040102, in control house on left bank at DeGray Regulating Dam, 0.1 mi (0.2 km) downstream from DeGray Creek, 2.2 mi (3.5 km) west of Caddo Valley, 4.2 mi (6.8 km) northwest of Arkadelphia, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--480 mi^2 (1,243 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1967 to September 1977. Prior to Jan. 1, 1971, published as Caddo River at DeGray Dam, near Arkadelphia. Gage-height records collected and occasional discharge measurements made by Corps of Engineers in the vicinity since February 1947. Daily stages 1964 to date and results of discharge measurements 1947 to date in published reports of Corps of Engineers. Prior to November 1963, discharge measurements were at damsite range.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1969, water-stage recorder at site 2.6 mi (4.2 km) upstream at datum 209.04 ft (63.715 m) National Geodetic Vertical Datum of 1929. Jan. 1, 1969, to Dec. 31, 1970, nonrecording gage at site 3.1 mi (5.0 km) upstream at present datum.

REMARKS.--Flow regulated by DeGray Lake since August 1969 (see station 07359900), and by DeGray Regulating Dam since January 1979, capacity, 3,600 acre-ft (4.44 hm^3).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--10 years, 790 ft^3/s (22.4 m^3/s), 572,400 acre-ft/yr (706 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,300 ft^3/s (1,250 m^3/s) May 14, 1968, gage height, 21.55 ft (6.568 m), site and datum then in use, affected by temporary storage behind Dam, then under construction; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 26, 1966, reached a stage of 18.98 ft (5.785 m), site and datum then in use.

EXTREMES FOR WATER YEAR 1976.--Maximum daily discharge, 5,490 ft^3/s (155 m^3/s) June 25; minimum daily, 136 ft^3/s (3.85 m^3/s) Mar. 2, 3.

EXTREMES FOR WATER YEAR 1977.--Maximum daily discharge, 6,180 ft^3/s (175 m^3/s) Mar. 7, 8; minimum daily, 126 ft^3/s (3.57 m^3/s) Oct. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	184	783	160	153	138	3900	153	166	1260	161	1660
2	176	165	399	157	150	136	654	150	188	342	157	1370
3	167	166	168	160	150	136	815	153	175	168	155	1120
4	165	163	167	163	138	139	698	160	167	4440	157	1320
5	161	161	165	162	148	153	321	161	165	4510	153	1420
6	155	163	165	166	153	156	280	271	1190	2310	153	774
7	153	163	161	674	150	154	365	194	244	472	157	236
8	161	160	157	1530	138	592	310	168	1490	1040	153	167
9	598	157	157	937	138	647	268	166	933	357	152	166
10	1160	153	166	179	153	638	191	166	200	168	155	163
11	257	150	168	167	147	3960	167	167	167	166	155	160
12	168	152	167	165	138	4500	166	167	166	253	957	151
13	1190	1320	165	161	152	491	177	3610	187	913	1360	153
14	893	689	163	157	165	169	487	420	170	449	1280	161
15	1090	607	160	153	161	167	499	2360	167	180	1720	167
16	298	263	157	157	157	166	444	999	483	167	1520	165
17	184	167	449	160	153	165	177	536	250	165	1570	161
18	168	166	2200	155	155	161	167	259	2430	161	1180	161
19	166	298	1110	152	152	160	1060	275	1970	157	1200	163
20	167	296	168	146	152	328	1830	332	281	153	1180	160
21	166	660	167	146	157	270	1960	2120	933	161	910	161
22	163	278	165	153	150	168	289	983	186	167	1130	790
23	160	953	163	152	152	374	352	168	775	166	1300	213
24	155	2070	160	160	146	591	276	172	554	328	1050	1020
25	150	1240	155	155	140	254	245	182	5490	187	1150	1460
26	150	1280	155	153	150	168	190	196	3620	1240	1240	272
27	211	720	160	153	140	166	167	236	2660	240	1700	171
28	203	310	155	160	144	165	165	223	1900	212	443	168
29	167	167	152	163	138	166	163	168	412	168	174	166
30	167	166	139	161	---	421	160	166	226	167	698	164
31	967	---	153	157	---	1730	---	165	---	165	628	---
TOTAL	10393	13587	9119	7574	4320	17629	16943	15646	27945	21032	24098	14583
MEAN	335	453	294	244	149	569	565	505	932	678	777	486
MAX	1190	2070	2200	1530	165	4500	3900	3610	5490	4510	1720	1660
MIN	150	150	139	146	138	136	160	150	165	153	152	151
AC-FT	20610	26950	18090	15020	8570	34970	33610	31030	55430	41720	47800	28930

CAL YR 1975 TOTAL 335146 MEAN 918 MAX 6680 MIN 126 AC-FT 664800
WTR YR 1976 TOTAL 182869 MEAN 500 MAX 5490 MIN 136 AC-FT 362700

07359910 CADDO RIVER AT DEGRAY REGULATING DAM, NEAR ARKADELPHIA, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	1110	247	166	138	153	5970	536	167	168	798	1910
2	168	804	174	163	138	162	1430	356	243	166	548	998
3	167	2160	167	160	142	3450	1800	190	181	164	529	1130
4	166	2340	166	155	152	3380	4570	1250	167	161	466	803
5	171	2180	163	152	156	3630	1700	1570	165	156	203	802
6	168	379	161	152	153	6150	282	208	162	157	219	1180
7	166	227	161	152	148	6180	1520	1040	158	161	202	1150
8	1090	2220	161	155	155	6180	300	301	160	158	258	977
9	278	959	161	157	156	2200	794	603	162	156	402	239
10	167	649	156	983	153	3390	424	979	159	152	194	167
11	1230	2890	155	484	153	3720	168	587	160	153	166	163
12	270	1750	154	170	168	469	167	199	167	163	163	160
13	167	348	151	165	168	168	334	400	165	653	159	454
14	165	251	150	167	167	167	410	173	161	825	155	266
15	164	1160	145	166	168	166	1490	167	162	471	383	826
16	157	999	146	165	193	201	954	165	166	194	1010	1000
17	153	649	160	212	168	179	529	165	2940	166	207	621
18	144	221	155	287	167	202	693	166	2710	499	167	304
19	138	447	150	1190	166	168	3660	278	234	1020	164	216
20	130	254	169	272	164	167	3980	176	168	586	160	1100
21	126	168	251	168	161	165	4550	167	326	465	156	1320
22	139	166	193	167	157	163	2000	165	432	182	152	1840
23	161	163	167	166	153	160	188	162	177	170	152	1410
24	156	160	165	164	151	157	168	158	167	163	159	1310
25	157	155	162	163	150	160	700	161	165	159	161	1480
26	189	151	160	161	154	156	362	585	528	155	167	987
27	551	146	155	156	151	2760	358	393	1170	156	167	576
28	389	151	155	153	144	5460	177	167	205	159	165	885
29	206	1710	165	152	---	3940	167	165	167	164	162	362
30	168	625	161	142	---	6130	168	165	170	466	222	509
31	167	---	164	136	---	6120	---	167	---	207	1660	---
TOTAL	7831	25592	5150	7401	4394	65853	40013	11964	12264	8775	9876	25145
MEAN	253	853	166	239	157	2124	1334	386	409	283	319	838
MAX	1230	2890	251	1190	193	6180	5970	1570	2940	1020	1660	1910
MIN	126	146	145	136	138	153	167	158	158	152	152	160
AC-FT	15530	50760	10220	14680	8720	130600	79370	23730	24330	17410	19590	49880

CAL YR 1976 TOTAL 188343 MEAN 515 MAX 5490 MIN 126 AC-FT 373600
WTR YR 1977 TOTAL 224258 MEAN 614 MAX 6180 MIN 126 AC-FT 444800

07359910 CADDO RIVER AT DEGRAY REGULATING DAM, NEAR ARKADELPHIA, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year, August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records for location immediately below Regulating Dam furnished by Corps of Engineers, Vicksburg, Miss. Additional analyses for Regulating Pool at power plant road bridge are available at the Vicksburg office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT					
31...	810	60	6.9	19.0	8.4
NOV					
07...	810	54	6.9	19.0	9.2
14...	810	58	7.0	15.0	9.3
21...	810	58	6.9	15.0	9.3
28...	810	59	7.0	12.5	9.9
DEC					
05...	810	56	7.0	14.0	9.6
12...	810	53	7.0	9.0	11.5
19...	810	61	7.0	11.5	10.2
27...	810	50	7.0	9.0	10.9
JAN					
01...	810	62	7.0	8.0	10.8
09...	810	57	6.9	6.0	11.8
17...	810	65	6.8	6.0	11.0
23...	810	57	6.9	4.0	11.2
30...	810	57	6.9	5.5	12.1
FEB					
06...	810	60	6.8	5.0	10.7
13...	810	60	6.8	5.5	10.9
20...	810	57	6.8	6.0	11.7
27...	810	61	7.0	6.0	10.4
MAR					
06...	810	55	7.0	6.0	11.3
13...	810	55	7.0	7.5	10.8
20...	810	64	7.0	10.0	11.4
29...	810	83	6.9	14.0	10.0
APR					
03...	810	59	7.0	13.5	10.5
11...	810	65	7.1	17.5	11.1
17...	810	59	6.9	18.0	9.1
24...	810	52	6.8	18.0	9.3
MAY					
01...	810	64	7.1	18.0	9.4
08...	810	51	7.1	16.0	9.6
15...	810	54	7.0	21.0	9.5
22...	810	54	7.0	22.5	8.9
30...	810	52	7.0	22.0	9.0
JUN					
05...	810	50	6.9	24.0	7.3
12...	810	54	6.9	24.0	7.2
19...	810	54	7.0	22.0	8.1
26...	810	60	6.9	25.0	6.9
JUL					
05...	810	56	7.1	27.0	8.0
10...	810	49	6.9	28.5	8.3
17...	810	58	7.0	26.5	8.0
24...	810	56	6.9	27.0	8.2
31...	810	58	7.9	25.0	7.9
AUG					
14...	810	54	6.9	25.5	8.6
21...	810	52	6.9	26.0	8.2
28...	810	54	7.0	28.0	8.8
SEP					
04...	810	53	6.9	25.0	6.9
13...	810	68	6.7	25.0	7.0
18...	810	53	6.9	24.0	5.5
25...	810	53	7.0	24.0	7.2

07360000 OUACHITA RIVER AT ARKADELPHIA, AR

LOCATION.--Lat 34°07'16", long 93°02'46", in sec.17, T.7 S., R.19 W., Clark County, Hydrologic Unit 08040102, on downstream side of bridge on State Highway 7 at Arkadelphia, 5.4 mi (8.7 km) downstream from Caddo River, and at mile 420.6 (676.7 km).

DRAINAGE AREA.--2,311 mi^2 (5,985 km^2).

PERIOD OF RECORD.--September 1905 to December 1906, May 1929 to September 1950, and October 1965 to September 1977 in reports of Geological Survey. Monthly discharge only for some periods published in WSP 1311. October 1950 to date in reports of Corps of Engineers. Gage-height records collected at same site since 1913 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 160.30 ft (48.859 m) National Geodetic Vertical Datum of 1929. September 1905 to December 1906, nonrecording gage at site 800 ft (244 m) downstream at different datum. Apr. 16, 1929, to Sept. 28, 1934, nonrecording gage at present site at datum 5.00 ft (1.524 m) higher. Sept. 29, 1934, to Mar. 31, 1946, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Catherine, 37.5 mi (60.3 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), by Lake Ouachita since 1952 (see station 07357500), and by DeGray Lake since August 1969 (see station 07359900).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years (1905-06, 1929-77), 3,504 ft^3/s (99.2 m^3/s), 2,539,000 acre-ft/yr (3,130 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 170,000 ft^3/s (4,810 m^3/s) Mar. 30, 1945, gage height, 30.3 ft (9.24 m), from floodmark, from rating curve extended above 161,000 ft^3/s (4,560 m^3/s); minimum daily, 74 ft^3/s (2.10 m^3/s) Oct. 5, 1931.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 27,600 ft^3/s (782 m^3/s) June 25, gage height, 17.22 ft (5.249 m); minimum, 420 ft^3/s (11.9 m^3/s) May 5, gage height, 4.10 ft (1.250 m).

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 40,000 ft^3/s (1,130 m^3/s) Mar. 4, gage height, 21.40 ft (6.523 m); minimum, 420 ft^3/s (11.9 m^3/s) June 8, gage height, 4.15 ft (1.265 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	913	1780	1900	817	739	725	4650	641	1090	1180	602	760
2	1200	705	3070	1240	711	746	2840	602	952	1590	590	2610
3	817	745	1550	2320	1230	718	1590	572	864	800	566	2470
4	847	2040	1380	1550	1380	683	1430	784	746	6550	566	2910
5	690	793	1660	1780	1170	952	1280	525	662	12300	572	2610
6	760	705	1200	1960	3530	1920	776	1110	1380	4650	550	2280
7	705	787	1280	1550	1380	1140	896	2140	2910	2340	578	1700
8	635	1200	969	3520	1590	5290	872	928	1760	1280	550	1450
9	765	787	1060	4180	952	21800	904	711	3060	1820	572	1430
10	2400	735	1720	2540	912	9930	784	725	1230	864	578	1450
11	2840	1340	1720	889	984	4490	669	697	920	768	739	1090
12	2260	725	1840	793	792	8280	648	725	690	718	1070	1540
13	2230	1660	990	1100	776	2400	655	5290	704	1170	2680	1640
14	3300	4200	1060	976	760	1380	697	7500	968	1760	3020	1700
15	2400	2840	865	1030	784	1140	1000	2980	824	936	2960	1760
16	2920	1150	1200	1200	732	1050	1040	4810	5800	683	2970	1820
17	2110	730	2700	817	928	1430	792	2840	2760	669	2840	1760
18	799	1440	4640	685	7310	848	596	2210	3140	648	2980	1700
19	690	1150	4640	725	4010	840	872	1230	8480	590	2470	1640
20	680	2040	1960	1480	2760	848	3610	896	3140	676	2610	1700
21	829	2100	865	1080	2340	1700	3450	1590	1540	676	2280	1820
22	610	3070	2540	960	1700	840	3140	3930	1230	627	2210	1950
23	680	3300	2040	768	1430	760	944	1060	1080	596	2470	3370
24	665	2700	976	960	1590	1100	968	1950	1090	888	2610	2210
25	877	4200	1280	936	2280	1330	2020	2470	17000	992	2280	3450
26	770	3740	1340	2400	1210	896	1280	2020	14800	1070	1640	2400
27	750	3900	1440	1540	1200	832	992	1950	7440	2400	2140	952
28	949	3440	1280	1430	872	760	1070	2540	2470	928	2470	1880
29	775	2400	1100	1230	760	2080	1230	1150	3290	648	1950	2080
30	700	1780	3000	856	---	3060	1160	824	1230	648	739	2140
31	1340	---	1600	864	---	3210	---	697	---	704	920	---
TOTAL	38906	58182	54865	44176	46812	83178	42855	58097	93250	52169	51772	58272
MEAN	1255	1939	1770	1425	1614	2683	1429	1874	3108	1683	1670	1942
MAX	3300	4200	4640	4180	7310	21800	4650	7500	17000	12300	3020	3450
MIN	610	705	865	685	711	683	596	525	662	590	550	760
AC-FT	77170	115400	108800	87620	92850	165000	85000	115200	185000	103500	102700	115600

CAL YR 1975 TOTAL 1520447 MEAN 4166 MAX 24300 MIN 610 AC-FT 3016000
WTR YR 1976 TOTAL 682534 MEAN 1865 MAX 21800 MIN 525 AC-FT 1354000

07360000 OUACHITA RIVER AT ARKADELPHIA, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2400	1700	3850	1760	964	812	13100	996	1180	1280	1350	3260
2	2540	4010	3060	996	876	844	11600	1420	732	812	1650	2730
3	2540	5290	2840	844	960	8010	7100	1280	1380	740	1000	1850
4	1590	4910	2610	796	1740	33900	14900	1590	900	748	940	1880
5	2610	5030	2540	812	1700	14100	14000	3890	1010	780	980	1580
6	1880	2610	1480	780	1320	9290	9470	2070	756	772	724	1730
7	2610	1380	2840	828	948	8410	9930	1560	684	1050	1160	2170
8	3140	2540	2600	828	1270	8840	7440	1980	668	1140	908	2200
9	2840	3930	2580	948	964	4760	7520	1500	700	756	964	1420
10	784	1590	1950	2100	916	4730	8110	1580	692	772	996	860
11	1070	3850	3370	4000	988	5510	6990	1770	836	812	740	708
12	2540	5290	4170	1840	4780	5260	6920	1310	980	780	652	676
13	2140	3610	2910	996	4090	1320	7050	1400	756	1010	636	724
14	2020	3210	3290	3800	2300	1100	7200	1680	764	2300	692	1830
15	2050	3690	3060	4100	1720	980	5120	1350	716	1670	1520	1120
16	1590	3850	2610	2350	1640	1560	4140	764	916	1350	2130	2110
17	2140	3770	1640	2510	1480	1230	3070	1200	2070	988	1880	1360
18	2210	3370	840	2200	1050	2010	5500	828	7560	756	900	1520
19	2400	3530	824	3020	916	1500	13200	860	2300	1780	788	996
20	2760	3770	784	3420	884	1210	17400	1190	980	2120	756	1380
21	2160	1480	2610	1090	860	900	15600	764	1140	1280	772	1880
22	2180	976	2910	1670	852	884	11900	700	1710	1610	772	2120
23	1950	2980	992	1050	892	812	7280	892	1400	812	876	2730
24	2470	2610	704	1240	2350	812	4100	740	940	692	828	2140
25	4490	2280	784	1260	972	836	2870	684	836	684	812	2370
26	4810	2080	784	1170	884	940	5090	1380	796	748	1120	2020
27	3990	2400	753	1080	1980	2650	1540	1840	2170	732	868	2240
28	4040	2340	732	1140	892	18800	1560	1050	1900	732	780	2100
29	3850	3370	739	1370	---	19500	1050	988	932	692	748	2010
30	3370	4810	746	956	---	16500	956	732	1000	772	732	1040
31	2080	---	725	940	---	14100	---	1480	---	1360	1880	---
TOTAL	79244	96256	62327	51894	41188	192110	231706	41468	39404	32530	31554	52754
MEAN	2556	3209	2011	1674	1471	6197	7724	1338	1313	1049	1018	1758
MAX	4810	5290	4170	4100	4780	33900	17400	3890	7560	2300	2130	3260
MIN	784	976	704	780	852	812	956	684	668	684	636	676
AC-FT	157200	190900	123600	102900	81700	381100	459600	82250	78160	64520	62590	104600

CAL YR 1976	TOTAL	768408	MEAN	2099	MAX	21800	MIN 525	AC-FT	1524000
WTR YR 1977	TOTAL	952435	MEAN	2609	MAX	33900	MIN 636	AC-FT	1889000

07360162 OUACHITA RIVER NEAR SPARKMAN, AR

LOCATION.--Lat 33°53'54", long 92°54'24", in sec.36, T.9 S., R.18 W., Clark-Dallas County line, Hydrologic Unit 08040102, at bridge on county road, 3.0 mi (4.8 km) southwest of Sparkman.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEM, ICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	199	6.8	20.0	0	6.9	75	1.2	25	--
NOV											
30...	9827	9827	120	7.2	7.0	10	8.3	68	.9	90	--
DEC											
20...	9827	9827	132	7.2	11.0	5	9.6	86	.9	33	--
JAN											
24...	9827	9827	101	6.7	6.0	10	12.2	98	2.9	200	20
FEB											
21...	9827	9827	94	6.9	6.0	15	12.5	100	2.0	5	--
MAR											
20...	9827	9827	92	6.9	16.0	10	10.5	105	1.7	10	--
APR											
18...	9827	9827	151	7.1	18.0	5	8.8	93	2.4	44	40
MAY											
16...	9827	9827	93	6.6	29.0	30	8.1	104	1.5	30	--
JUN											
12...	9827	9827	101	6.7	27.0	40	7.3	90	1.0	10	--
JUL											
18...	9827	9827	102	7.3	29.0	10	7.1	91	1.4	120	35
AUG											
14...	9827	9827	--	7.3	30.0	5	--	107	1.1	<4	--
SEP											
12...	9827	9827	104	7.0	27.0	5	7.6	94	1.5	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
24...	9.0	2.0	19	4.1	15	26	28	115	8	.94
NOV										
30...	--	--	--	--	--	5.0	20	91	6	.16
DEC										
20...	--	--	--	--	--	17	18	75	5	.46
JAN										
24...	4.0	2.0	8.6	2.4	16	13	12	78	--	.34
FEB										
21...	--	--	--	--	--	--	13	70	14	.24
MAR										
20...	--	--	--	--	--	--	12	64	--	.23
APR										
18...	12	2.1	7.9	2.2	22	5.0	26	93	23	.10
MAY										
16...	--	--	--	--	--	5.0	13	--	20	.19
JUN										
12...	--	--	--	--	--	6.0	14	74	14	.24
JUL										
18...	10	2.0	8.6	1.6	21	3.0	17	75	14	.14
AUG										
14...	--	--	--	--	--	3.0	15	73	--	.07
SEP										
12...	--	--	--	--	--	6.0	13	60	12	.08

07360162 OUACHITA RIVER NEAR SPARKMAN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	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)	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)
OCT										
24...	<.05	.98	.50	.03	10	<5	<10	290	30	120
NOV										
30...	<.05	.17	.08	.05	--	--	--	--	--	--
DEC										
20...	.05	.51	.28	.05	--	--	--	--	--	--
JAN										
24...	<.05	.35	.26	.10	<10	<5	20	470	<10	140
FEB										
21...	.01	.25	.13	.04	--	--	--	--	--	--
MAR										
20...	.01	.24	.08	.08	--	--	--	--	--	--
APR										
18...	.01	.11	.10	--	30	<5	<20	1100	130	150
MAY										
16...	.03	.22	.20	.07	--	--	--	--	--	--
JUN										
12...	.01	.25	.11	.05	--	--	--	--	--	--
JUL										
18...	.01	.15	.09	.12	<10	<5	<20	640	<10	180
AUG										
14...	.01	.08	.12	.06	--	--	--	--	--	--
SEP										
12...	.01	.09	.05	.03	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARA-THION, TOTAL (UG/L) (39600)	TOX-APHENE, TOTAL (UG/L) (39400)
OCT										
24...	--	20	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
DEC										
20...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
24...	--	10	--	--	--	--	--	--	--	--
FEB										
21...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
18...	--	30	--	--	--	--	--	--	--	--
MAY										
16...	--	--	--	--	--	--	--	--	--	--
JUN										
12...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	<1.0	30	--	--	--	--	--	--	--	--
AUG										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
12...	--	--	--	--	--	--	--	--	--	--

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, AR

LOCATION.--Lat 34°18'41", long 93°53'58", in SW¼ sec.16, T.5 S., R.27 W., Pike County, Hydrologic Unit 08040103, at bridge on State Highway 84, 1.6 mi (2.6 km) downstream from White Oak Creek, and 3.3 mi (5.3 km) west of Langley.

DRAINAGE AREA.--66.5 mi² (172 km²).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
18...	9827	9827	65	7.3	19.0	0	9.8	104	3.2	4	--
NOV											
15...	9827	9827	48	7.2	16.0	0	11.0	110	2.3	16	--
DEC											
13...	9827	9827	53	--	13.0	10	11.2	106	2.3	40	--
FEB											
14...	9827	9827	--	--	10.0	--	12.8	113	2.8	<4	--
20...	9827	9827	32	6.8	8.0	0	13.3	112	2.3	<3	9
MAR											
14...	9827	9827	30	6.9	16.0	10	11.2	112	1.1	16	--
APR											
11...	9827	9827	28	6.6	18.0	15	10.1	106	2.1	73	6
MAY											
09...	9827	9827	28	6.7	20.0	5	10.2	111	2.0	50	--
JUN											
06...	9827	9827	45	7.1	26.0	--	8.8	107	1.8	690	--
JUL											
11...	9827	9827	69	6.9	30.0	10	7.9	104	4.4	240	24
AUG											
08...	9827	9827	66	7.5	28.0	10	8.9	113	3.1	--	--
SEP											
05...	9827	9827	67	7.6	29.0	5	9.2	118	4.7	10	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
18...	8.0	1.7	2.2	.7	22	5.0	3.5	47	3	<.05
NOV										
15...	--	--	--	--	--	4.0	3.5	32	4	.06
DEC										
13...	--	--	--	--	--	7.0	3.5	48	6	.20
FEB										
14...	--	--	--	--	--	--	--	--	--	--
20...	2.0	1.0	1.9	.5	11	3.0	--	39	3	.11
MAR										
14...	--	--	--	--	--	9.0	4.5	25	2	.06
APR										
11...	1.0	.6	1.7	.8	8	1.0	4.0	--	6	.04
MAY										
09...	--	--	--	--	--	3.0	5.5	25	3	.06
JUN										
06...	--	--	--	--	--	2.0	3.5	43	9	--
JUL										
11...	6.0	2.0	2.2	.8	26	3.0	--	42	5	.04
AUG										
08...	--	--	--	--	--	<1.0	3.5	48	4	.04
SEP										
05...	--	--	--	--	--	--	4.0	41	2	.02

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
18...	<.05	<.05	<.05	.01	<10	<5	<10	40	--	13
NOV										
15...	<.05	.06	.05	.04	--	--	--	--	--	--
DEC										
13...	<.05	.21	.08	.12	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	--	--	--
20...	.01	.12	.01	.01	<10	<5	<20	60	<10	28
MAR										
14...	.01	.07	.05	.01	--	--	--	--	--	--
APR										
11...	.01	.05	.05	.03	<10	10	20	360	<10	28
MAY										
09...	.01	.07	.06	.06	--	--	--	--	--	--
JUN										
06...	<.01	.05	.03	.05	--	--	--	--	--	--
JUL										
11...	.01	.05	.06	.07	<10	<5	40	220	10	37
AUG										
08...	.01	.05	.02	.01	--	--	--	--	--	--
SEP										
05...	.01	.03	.09	.08	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
18...	--	40	--	--	--	--	--	--	--	--
NOV										
15...	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC										
13...	--	--	--	--	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	--	--	--
20...	--	30	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
11...	--	20	--	--	--	--	--	--	--	--
MAY										
09...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	<1.0	90	--	--	--	--	--	--	--	--
AUG										
08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	--	--	--

07360250 LITTLE MISSOURI RIVER NEAR NEWHOPE, AR

LOCATION.--Lat 34°14'21", long 93°50'05", in NW¼NW¼ sec.13, T.6 S., R.27 W., Pike County, Hydrologic Unit 08040103, at bridge on U.S. Highway 70, and 2.8 mi (4.5 km) east of Newhope.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT					
31...	810	40	6.9	19.0	6.4
NOV					
07...	810	29	6.9	17.0	7.9
14...	810	43	6.9	12.0	9.8
21...	810	28	6.7	11.5	13.5
28...	810	33	6.6	10.0	6.7
DEC					
05...	810	24	6.7	13.0	7.2
12...	810	40	6.8	7.0	7.8
19...	810	30	6.8	10.0	8.6
27...	810	59	6.9	3.0	12.7
JAN					
03...	810	32	6.8	7.0	10.0
09...	810	42	6.7	4.0	11.8
17...	810	30	6.7	4.0	10.5
23...	810	27	6.6	7.0	9.7
FEB					
01...	810	43	6.5	3.0	12.4
06...	810	33	6.6	5.0	10.2
13...	810	59	6.5	6.0	9.8
20...	810	54	6.7	6.0	9.7
27...	810	44	6.7	8.0	10.0
MAR					
07...	810	34	6.2	7.0	10.7
13...	810	64	6.6	9.0	9.7
20...	810	41	6.7	14.0	10.5
27...	810	27	6.6	12.5	12.6
APR					
03...	810	35	6.7	16.0	8.8
11...	810	34	6.7	14.5	7.4
17...	810	22	6.7	18.5	6.7
25...	810	44	6.7	17.0	9.6
MAY					
01...	810	40	6.8	19.0	8.6
08...	810	34	6.7	18.0	8.4
15...	810	47	6.7	22.0	8.3
22...	810	44	6.7	18.0	6.2
31...	810	34	6.9	26.0	6.6
JUN					
05...	810	40	6.9	24.5	6.2
14...	810	30	6.8	25.0	6.0
20...	810	41	6.9	24.0	5.5
27...	810	58	7.2	31.0	5.8
JUL					
05...	810	48	7.0	27.0	6.2
11...	810	45	7.0	27.5	4.3
25...	810	35	7.5	32.0	6.7
AUG					
01...	810	37	7.2	29.0	5.7
07...	810	63	7.2	28.0	7.5
08...	810	23	6.9	29.0	6.5
16...	810	52	7.4	32.5	6.8
23...	810	51	7.2	30.0	6.6
29...	810	17	7.1	26.5	11.6
SEP					
05...	810	38	7.2	27.0	9.4
12...	810	60	7.1	26.5	6.8
20...	810	48	6.9	27.0	7.7
26...	810	50	7.3	27.0	6.7

07360350 SELF CREEK NEAR DAISY, AR

LOCATION.--Lat 34°15'49", long 93°43'40", in NE¼SE¼ sec.36, T.5 S., R.26 W., Pike County, Hydrologic Unit 08040103, at bridge on county road 1.6 mi (2.6 km) north of Daisy.

DRAINAGE AREA.--20.3 mi² (52.6 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT					
31...	810	33	6.7	19.0	6.6
NOV					
07...	810	45	6.6	16.5	7.6
14...	810	41	7.0	14.0	10.3
21...	810	37	6.7	13.0	15.0
28...	810	31	6.4	10.0	6.2
DEC					
05...	810	24	6.6	13.0	8.4
12...	810	40	6.7	6.0	7.2
19...	810	34	6.8	9.0	9.5
27...	810	62	6.6	4.0	12.2
JAN					
03...	810	41	6.6	5.0	15.8
09...	810	33	6.6	4.0	14.8
17...	810	25	6.6	5.0	14.0
23...	810	30	6.7	5.0	11.8
FEB					
01...	810	31	6.7	5.5	12.5
06...	810	30	6.5	4.0	11.6
13...	810	54	6.6	6.0	10.8
20...	810	34	6.5	5.0	12.0
27...	810	53	6.6	7.5	11.2
MAR					
07...	810	40	6.3	7.5	9.2
13...	810	34	6.5	9.0	9.8
20...	810	48	6.7	14.0	12.2
27...	810	38	6.6	10.0	13.2
APR					
03...	810	44	6.8	16.5	9.6
11...	810	36	6.7	14.0	8.5
17...	810	23	6.6	17.5	7.7
25...	810	46	6.5	17.0	8.0
MAY					
01...	810	44	6.7	17.0	9.2
08...	810	42	6.6	20.0	8.0
15...	810	36	6.8	21.0	8.2
22...	810	43	6.8	18.0	8.6
31...	810	44	6.8	23.5	6.5
JUN					
05...	810	42	6.9	21.5	7.2
14...	810	42	6.7	21.5	8.2
20...	810	44	6.9	22.0	7.8
27...	810	48	6.7	27.5	5.2
JUL					
05...	810	40	7.0	25.0	6.8
11...	810	43	6.9	26.0	6.0
18...	810	40	7.1	25.0	6.6
25...	810	36	7.1	31.0	8.2
AUG					
01...	810	29	7.0	27.0	6.8
07...	810	62	7.0	27.5	7.3
08...	810	35	7.4	32.0	8.6
16...	810	44	7.0	31.5	7.6
23...	810	38	7.0	28.0	6.8
29...	810	15	6.9	24.5	12.2
SEP					
05...	810	36	6.9	25.0	12.2
12...	810	59	7.1	26.0	6.4
20...	810	44	6.8	27.0	6.4
26...	810	58	7.0	25.0	6.2

07360500 LAKE GREESON NEAR MURFREESBORO, AR

LOCATION.--Lat 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, Hydrologic Unit 08040103, at Narrows Dam on Little Missouri River, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.7 mi (15.6 km) upstream from Muddy Fork, and at mile 105.5 (169.7 km).
DRAINAGE AREA.--237 mi² (614 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1949 to current year. Prior to October 1951, published as Narrows Reservoir near Murfreesboro.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 15, 1950, nonrecording gage at site 700 ft (213 m) upstream at present datum. Jan. 15 to July 10, 1950, nonrecording gage and July 11 to Oct. 2, 1950, automatic Selsyn Repeater gage, at present site and datum.
REMARKS.--Lake is formed by concrete-gravity dam. Outlet works consists of a flood-control section containing two regulated outlets, a power intake section containing three 10-ft (3 m) diameter penstocks, and an uncontrolled overflow spillway section. Storage began Nov. 30, 1949, and bottom of power pool was first reached Feb. 1, 1950. Capacity between elevations 548.0 ft (167.03 m) and 563.0 ft (171.60 m) is 128,200 acre-ft (158 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest	563.0 (171.60 m)	407,900 (503 hm³)
Top of designated power pool	548.0 (167.03 m)	279,700 (345 hm³)
Top of conservation pool and bottom of designated power pool	504.0 (153.62 m)	77,600 (95.7 hm³)
Bottom of lowest outlet	436.9 (133.17 m)	--

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 423,800 acre-ft (523 hm³) May 18, 19, 1968, elevation, 564.60 ft (172.090 m); minimum since top of power pool was first reached, 160,000 acre-ft (197 hm³) Dec. 24, 1963, elevation, 527.62 ft (160.819 m).
EXTREMES FOR WATER YEAR 1977.--Maximum contents, 284,700 acre-ft (351 hm³) Mar. 30, elevation, 548.68 ft (167.238 m); minimum, 174,500 acre-ft (215 hm³) Nov. 18, elevation, 530.64 ft (161.739 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 280,100 acre-ft (345 hm³) May 15, elevation, 548.06 ft (167.049 m); minimum, 186,700 acre-ft (230 hm³) Feb. 7, elevation, 533.02 ft (162.464 m).

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

530	171.4	540	226.3	549	287.0
535	197.3	545	258.6		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203100	197100	179700	180700	188800	219500	278600	269000	250100	252200	246500	241300
2	203100	195100	177000	180900	189100	220200	274700	269300	250000	252200	246500	238500
3	203000	193600	176500	181000	188800	226800	272400	269100	249300	252000	247200	238200
4	203000	191700	176600	181100	190000	252600	271700	266100	248800	251800	246500	238100
5	202600	189500	176800	181200	191000	256400	272100	263600	248700	251800	246500	238000
6	202800	188600	177300	181500	191900	258600	271500	262500	247900	251700	246500	238800
7	202700	188800	176600	181700	192700	259900	269600	260800	247700	251600	246500	239000
8	202600	188800	175200	181700	193200	259900	269200	260800	247500	251600	246500	238900
9	201700	187300	174700	182300	193800	258800	269800	261200	247400	249400	246500	238900
10	201700	186200	175100	182800	193700	257500	270200	260700	247300	246300	246500	239000
11	201700	184300	176200	180500	194100	256200	270700	259500	247100	246300	246500	238900
12	201600	182100	178600	180300	200900	259000	270300	259600	247000	245900	246500	238800
13	201600	181800	180700	180700	205100	259400	270600	259500	247100	245900	245900	238900
14	200300	180100	181300	183500	207600	260200	269600	258000	247300	244600	245900	239200
15	200300	179400	180100	186500	209100	259200	267500	258000	247300	244400	245900	239300
16	197100	177000	179100	188400	209400	257900	265400	256700	247700	244200	245900	239200
17	197000	175600	179700	189300	210400	256600	264000	256700	250000	244100	244500	237300
18	196800	174800	180000	190200	211000	255300	266100	255200	251400	244000	244500	234800
19	195900	174700	180400	187000	211000	255600	266200	254300	251700	243900	244500	232800
20	194200	175500	180900	186000	211500	255400	267200	254000	251900	243300	243900	232700
21	192500	176200	180200	186200	211900	255700	272300	253800	252000	243800	243900	232300
22	191400	176800	180100	186100	212100	253600	274600	253900	252000	243000	243900	232200
23	189800	176400	180400	186700	212600	253200	274800	254000	252000	242700	243900	231500
24	190000	176800	180600	187300	214500	252800	275900	252900	252000	242700	245200	230100
25	195500	177200	180800	187100	215200	251200	276700	252900	251900	242300	245200	228300
26	197900	178300	180900	187600	216100	251400	277300	252800	252100	242800	243900	228900
27	198700	182900	181100	188100	217300	252700	275800	252800	252400	242900	243900	225400
28	198700	182900	181300	188700	218500	274900	273800	251100	252400	243900	243900	222700
29	198200	183200	181400	187700	---	282800	271700	251000	252400	243500	243900	222400
30	196100	180200	180600	188100	---	284400	269100	250400	252300	243800	243900	219400
31	196400	---	180800	188500	---	282400	---	250300	---	245000	243300	---
MAX	203100	197100	181400	190200	218500	284400	278600	269300	252400	252200	247200	241300
MIN	189800	174700	174700	180300	188800	219500	264000	250300	247000	242300	243300	219400
(†)	534.95	531.66	531.87	533.39	538.82	548.03	546.50	543.73	544.04	543.11	542.40	538.31
(‡)	-6100	-17300	+1000	+8000	+30400	+60800	-10900	-18900	+2100	-6300	-4600	-25200

CAL YR 1976 MAX 299600 MIN 174700 ‡ -18300
WTR YR 1977 MAX 284400 MIN 174700 ‡ +13000

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

07360500 LAKE GREESON NEAR MURFREESBORO, AR--CONTINUED

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215100	210500	222900	213100	192800	195100	247500	267500	270700	255800	224400	206500
2	211100	221700	223800	523000	191000	195300	247900	264700	271100	255700	222800	206400
3	211200	222800	224500	213100	190800	196500	248300	266300	270900	255100	221800	206400
4	211200	223800	225100	212100	191200	197700	247500	267600	270900	254600	221700	206400
5	211200	224600	225600	210500	190500	198800	245300	269400	270900	254600	221600	206400
6	211300	224800	225300	210600	189500	199800	245600	270700	272400	252800	221500	205000
7	211300	225000	226000	210800	188600	204200	244500	273800	273700	251300	221400	203900
8	211300	222900	219700	211000	186800	210900	244500	276300	274200	250400	221300	203800
9	211300	223600	219400	210500	187100	212800	244700	276500	274500	249100	221200	203800
10	211300	222500	217500	206500	187500	214700	245000	277800	274600	247900	221100	203800
11	211200	222800	216400	202900	187800	216200	246800	278300	274700	246500	220900	203700
12	211100	223200	216100	200600	188000	217400	248300	279000	274700	245100	220000	203900
13	210600	223400	215600	198600	189200	218400	249200	278100	274300	244700	218900	204700
14	210500	223700	216200	198400	188900	220900	249800	279300	274300	242600	217900	205000
15	210500	223900	216600	196200	189700	222600	250000	280100	274300	242600	216300	205100
16	210400	224000	217000	196400	189500	223500	250300	278500	274200	242600	216200	204200
17	210400	223100	217400	198400	189200	224300	250600	279000	274200	242500	215600	202900
18	210200	223200	217600	197800	190100	225100	251600	279300	273100	242300	214400	202900
19	210200	223300	218000	196400	190700	225700	252700	277100	273100	241300	213100	201000
20	208400	223400	218400	194200	191200	226400	252300	275300	271500	239800	213700	200100
21	208800	223900	218600	192500	191500	228300	252500	274500	270800	237500	213700	197500
22	208700	221500	215700	191300	191500	231900	253000	273700	269400	236900	213600	195900
23	208700	220900	215500	191800	192100	232500	257600	272100	267700	236900	212400	195000
24	208700	221100	215600	189800	192500	235300	261500	272300	267000	236800	210800	195000
25	209400	221300	215800	192300	192800	239400	262700	271900	265800	236600	208800	194800
26	209500	221400	215800	194800	193200	241800	264000	271600	264200	234300	208700	192500
27	209500	221100	215700	193800	193800	243400	264900	270900	262300	232600	206500	191200
28	209500	221100	216000	191700	194400	244600	265500	271200	260400	232500	205600	189700
29	209500	221400	216100	192300	---	245600	266100	271500	258800	230600	206600	188300
30	209500	221700	216200	193400	---	246300	266800	271600	257300	228800	206600	187100
31	209600	---	213000	193400	---	247000	---	271700	---	226700	206600	---
MAX	215100	225000	225600	523000	194400	247000	266800	280100	274700	255800	224400	206500
MIN	208700	210500	213000	189800	186800	195100	244500	264700	257300	226700	205600	187100
(†)	537.21	539.39	537.79	534.11	534.55	543.32	546.23	546.74	544.59	539.69	536.66	533.09
(‡)	-6400	+12900	-9500	-20600	+2400	+52400	+19800	+3600	-14900	-31400	-17800	-19500

CAL YR 1977 MAX 284400 MIN 180300 ‡ +32400
WTR YR 1978 MAX 523000 MIN 186800 ‡ -29000

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

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year. August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Flow completely regulated by Lake Greeson.

COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT						
17...	810	.0	38	--	22.0	7.9
17...	810	6.6	38	--	21.5	7.6
17...	810	13	40	--	21.5	7.5
17...	810	20	40	--	21.5	7.3
17...	810	26	40	--	21.5	7.4
17...	810	33	41	--	21.5	7.3
17...	810	39	43	--	20.5	4.6
17...	810	46	45	--	16.5	.4
17...	810	52	47	--	14.0	.4
17...	810	59	49	--	13.0	.7
17...	810	66	50	--	11.5	1.3
17...	810	72	51	--	10.5	2.1
17...	810	79	52	--	9.5	1.8
17...	810	85	53	--	9.0	1.8
17...	810	92	54	--	8.0	2.3
17...	810	98	54	--	8.0	4.0
17...	810	105	55	--	7.5	3.7
17...	810	112	60	--	7.0	3.2
17...	810	118	66	--	7.0	.5
17...	810	125	98	--	7.0	.4
17...	810	131	132	--	7.0	.4
NOV						
22...	810	.0	35	6.6	16.0	6.7
22...	810	6.6	35	6.6	16.0	6.6
22...	810	13	35	6.6	16.0	6.5
22...	810	20	35	6.6	16.0	6.5
22...	810	26	35	6.5	16.0	6.2
22...	810	33	37	6.5	16.0	6.2
22...	810	39	38	6.6	16.0	6.2
22...	810	46	39	6.4	16.0	6.2
22...	810	52	41	6.3	16.0	6.2
22...	810	59	43	6.2	14.0	.4
22...	810	66	46	6.2	12.5	.2
22...	810	72	48	6.2	11.5	.2
22...	810	79	49	6.2	10.0	.3
22...	810	85	49	6.2	9.5	.8
22...	810	92	49	6.2	9.0	1.2
22...	810	98	50	6.2	8.0	2.2
22...	810	105	50	6.2	8.0	2.2
22...	810	112	53	6.2	7.5	.8

07360500 LAKE GREESON NEAR MURFREESBORO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
NOV						
22...	810	118	73	6.3	7.5	.2
22...	810	125	106	6.3	7.5	.0
DEC						
27...	810	.0	39	6.6	9.0	8.3
27...	810	6.6	39	6.6	9.0	8.0
27...	810	13	41	6.6	9.0	7.8
27...	810	20	44	6.6	9.0	7.8
27...	810	26	44	6.6	9.0	7.8
27...	810	33	44	6.6	9.0	7.6
27...	810	39	45	6.7	9.0	7.6
27...	810	46	46	6.7	9.0	7.6
27...	810	52	49	6.7	9.0	7.6
27...	810	59	50	6.6	9.0	7.5
27...	810	66	52	6.6	9.0	7.5
27...	810	72	52	6.6	9.0	7.4
27...	810	79	52	6.6	9.0	7.3
27...	810	85	52	6.5	9.0	7.3
27...	810	92	54	6.5	9.0	7.2
27...	810	98	56	6.3	8.0	1.0
27...	810	105	59	6.2	8.0	.4
27...	810	112	63	6.3	7.0	.4
27...	810	118	66	6.3	7.0	.2
27...	810	125	113	6.4	7.0	.2
27...	810	131	146	7.0	7.0	.2
JAN						
31...	810	.0	41	6.7	5.0	10.4
31...	810	6.6	38	6.7	5.0	10.4
31...	810	13	38	6.7	5.0	10.4
31...	810	20	41	6.7	5.0	10.2
31...	810	26	41	6.7	5.0	10.0
31...	810	33	41	6.7	4.5	10.1
31...	810	39	41	6.7	4.5	10.0
31...	810	46	41	6.7	4.5	10.1
31...	810	52	41	6.7	4.5	9.7
31...	810	59	44	6.7	4.5	9.8
31...	810	66	44	6.7	4.5	10.0
31...	810	72	44	6.7	4.5	9.8
31...	810	79	44	6.7	4.5	9.8
31...	810	85	44	6.7	4.5	9.8
31...	810	92	44	6.7	4.5	10.0
31...	810	98	44	6.7	4.5	9.8
31...	810	105	44	6.7	4.5	9.8
31...	810	112	44	6.6	4.5	9.8
31...	810	118	44	6.6	4.5	9.8
31...	810	125	44	6.6	4.5	9.8
31...	810	131	44	6.6	4.5	9.8
MAR						
07...	810	.0	41	6.6	5.0	11.7
07...	810	6.6	41	6.6	4.5	11.6
07...	810	13	42	6.6	4.0	11.6
07...	810	20	42	6.6	4.0	11.5
07...	810	26	42	6.6	4.0	11.4
07...	810	33	43	6.6	3.5	11.3
07...	810	39	43	6.6	3.5	11.2
07...	810	46	43	6.6	3.5	11.1
07...	810	52	43	6.6	3.5	10.9
07...	810	59	43	6.6	3.5	10.9
07...	810	66	43	6.6	3.5	11.0
07...	810	72	43	6.6	3.5	11.0
07...	810	79	45	6.6	3.5	11.0
07...	810	85	45	6.6	3.5	11.0
07...	810	92	45	6.6	3.5	10.9
07...	810	98	46	6.6	3.5	10.9
07...	810	105	46	6.6	3.5	10.9
07...	810	112	46	6.6	3.5	10.8
07...	810	118	46	6.6	3.5	10.9
07...	810	125	49	6.6	3.5	10.9
07...	810	131	49	6.6	3.5	10.9
APR						
11...	810	.0	41	6.8	15.0	8.4
11...	810	6.6	38	6.8	14.5	8.3
11...	810	13	42	6.9	14.0	8.3
11...	810	20	46	6.8	13.5	8.2
11...	810	26	49	6.6	10.0	8.6
11...	810	33	51	6.7	8.0	9.2
11...	810	39	51	6.7	8.0	9.4
11...	810	46	53	6.7	6.0	9.6
11...	810	52	53	6.7	6.0	9.0
11...	810	59	53	6.7	6.0	9.3
11...	810	66	53	6.7	6.0	9.3

07360500 LAKE GREESON NEAR MURFREESBORO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
APR						
11...	810	72	54	6.7	5.5	9.4
11...	810	79	56	6.7	5.5	9.5
11...	810	85	56	6.7	5.0	9.6
11...	810	92	56	6.7	5.0	9.5
11...	810	98	56	6.7	5.0	9.5
11...	810	105	56	6.7	5.0	9.3
11...	810	112	58	6.7	5.0	9.3
11...	810	118	58	6.7	5.0	9.2
11...	810	125	75	6.7	5.0	8.8
11...	810	131	117	6.7	4.5	.5
MAY						
15...	810	.0	--	6.9	21.5	8.5
15...	810	6.6	27	6.9	21.0	8.5
15...	810	13	27	6.9	20.0	8.3
15...	810	20	28	6.8	19.0	8.0
15...	810	26	29	6.7	17.0	7.7
15...	810	33	26	6.7	15.0	7.2
15...	810	39	27	6.7	12.0	7.5
15...	810	46	26	6.6	10.0	7.8
15...	810	52	26	6.5	9.0	8.2
15...	810	59	26	6.5	8.0	8.5
15...	810	66	26	6.5	8.0	8.6
15...	810	72	27	6.5	7.0	8.7
15...	810	79	27	6.3	7.0	8.7
15...	810	85	27	6.3	6.0	8.8
15...	810	92	27	6.3	6.0	9.0
15...	810	98	27	6.3	6.0	8.8
15...	810	105	27	6.3	5.5	8.6
15...	810	112	27	6.3	5.0	8.5
15...	810	118	27	6.3	5.0	8.0
15...	810	125	27	6.3	5.0	7.8
15...	810	131	27	6.3	5.0	7.5
15...	810	138	42	6.3	5.0	.5
JUN						
27...	810	.0	29	6.6	29.5	7.2
27...	810	6.6	28	6.7	29.0	7.0
27...	810	13	30	6.7	25.0	7.8
27...	810	20	30	6.7	22.0	8.8
27...	810	26	28	6.6	17.5	5.5
27...	810	33	26	6.5	14.5	4.6
27...	810	39	27	6.5	12.5	5.0
27...	810	46	28	6.5	11.0	5.4
27...	810	52	28	6.4	9.5	6.0
27...	810	59	27	6.4	8.5	6.4
27...	810	66	28	6.4	8.0	6.8
27...	810	72	28	6.3	8.0	7.0
27...	810	79	28	6.3	7.5	7.4
27...	810	85	28	6.3	6.0	7.6
27...	810	92	28	6.3	6.0	7.5
27...	810	98	28	6.3	7.0	7.0
27...	810	105	27	6.3	6.0	7.4
27...	810	112	27	6.3	6.0	6.8
27...	810	118	27	6.3	5.0	6.5
27...	810	125	27	6.3	5.0	6.5
27...	810	131	68	6.3	5.0	.5
SEP						
12...	810	.0	34	6.7	27.0	6.3
12...	810	6.6	34	6.7	27.0	6.3
12...	810	13	36	6.7	27.0	6.2
12...	810	20	36	6.4	27.0	6.2
12...	810	26	32	6.0	25.5	2.3
12...	810	33	33	5.8	20.0	.2
12...	810	39	34	5.7	17.0	.1
12...	810	46	35	5.8	14.0	.4
12...	810	52	35	5.8	11.5	1.2
12...	810	59	36	5.8	10.0	1.4
12...	810	66	32	5.8	8.5	2.2
12...	810	72	33	5.8	8.0	.3
12...	810	79	33	5.9	7.0	.3
12...	810	85	33	5.9	7.0	.3
12...	810	92	34	5.9	6.5	.3
12...	810	98	34	5.9	6.0	.3
12...	810	105	34	5.9	6.0	.2
12...	810	112	34	5.9	5.5	2.8
12...	810	118	34	5.9	5.2	2.5
12...	810	125	38	5.9	5.2	1.2

07360501 LITTLE MISSOURI RIVER AT NARROWS DAM, NEAR MURFREESBORO, AR

LOCATION.--Lat 34°08'54", long 93°42'54", in NW¼ sec.18 T.7 S., R.25 W., Pike County, Hydrologic Unit 08040103, in powerhouse at Narrows Dam, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.5 mi (15.3 km) upstream from Muddy Fork Creek, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi^2 (614 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 in reports of Geological Survey. January 1946 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 18, 1947, water-stage recorder at damsite and June 18, 1947, to Dec. 21, 1951, water-stage recorder at site 2,700 ft (823 m) downstream, both at datum 400.81 ft (122.167 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Discharge computed from flowmeter and estimated leakage. Leakage was not included in published flows prior to Jan. 1, 1954. Flow completely regulated by Lake Greeson since Nov. 30, 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--31 years, 408 ft^3/s (11.6 m^3/s), 295,600 acre-ft/yr (364 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge since power generation began May 27, 1950, 5,210 ft^3/s (148 m^3/s) June 2, 1957; minimum daily, 10 ft^3/s (0.28 m^3/s) at times, estimated leakage.

EXTREMES FOR WATER YEAR 1976.--Maximum daily discharge, 2,490 ft^3/s (70.5 m^3/s) June 29, July 1; minimum daily, 15 ft^3/s (0.42 m^3/s) at times.

EXTREMES FOR WATER YEAR 1977.--Maximum daily discharge, 2,530 ft^3/s (71.6 m^3/s) Apr. 1; minimum daily, 15 ft^3/s (0.42 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	15	15	15	15	197	291	15	15	2490	15	221
2	15	15	461	15	175	15	15	15	15	2480	15	15
3	216	15	15	387	15	15	15	15	15	1730	15	15
4	15	15	15	15	86	15	15	15	15	623	15	15
5	15	15	15	1540	15	77	15	848	15	15	848	535
6	15	15	15	15	77	15	40	1080	15	15	1300	15
7	15	15	15	1180	15	15	15	811	588	15	15	15
8	15	15	15	1690	15	412	15	15	321	15	15	15
9	551	15	15	1310	15	404	15	15	112	1060	15	210
10	1030	15	15	420	15	117	15	676	389	245	119	15
11	1030	15	15	15	15	15	15	376	605	862	199	15
12	15	15	478	15	44	15	15	15	15	1700	218	15
13	901	1540	15	15	80	15	15	15	65	1140	848	15
14	974	882	15	567	15	15	15	15	15	15	1000	275
15	15	15	620	511	15	15	15	15	187	15	15	15
16	15	15	135	347	15	184	15	15	633	710	1350	1030
17	15	15	299	15	713	60	15	15	1260	15	1570	878
18	15	15	1370	15	86	153	15	15	115	15	1440	15
19	15	15	862	15	119	15	70	15	15	1150	15	15
20	15	34	15	15	90	136	15	15	15	2390	15	15
21	15	27	15	15	15	15	15	224	15	637	15	216
22	15	15	15	15	15	1080	15	15	15	1170	15	15
23	15	15	304	15	15	1390	15	15	280	1410	15	15
24	74	1260	15	15	15	1340	15	15	264	1070	15	394
25	15	657	15	15	769	1240	15	15	1340	1360	563	15
26	15	193	15	836	15	15	15	618	993	1590	1010	210
27	15	15	15	383	15	15	15	153	955	1430	947	15
28	195	15	15	125	15	15	15	15	1830	1300	15	15
29	15	15	15	286	15	15	279	15	2490	957	15	15
30	108	15	15	15	---	15	15	15	2460	1040	15	15
31	15	---	522	15	---	15	---	15	---	616	15	---
TOTAL	5568	4938	5381	9852	2524	7060	1070	5131	15067	29280	11682	4284
MEAN	180	165	174	318	87.0	228	35.7	166	502	945	377	143
MAX	1030	1540	1370	1690	769	1390	291	1080	2490	2490	1570	1030
MIN	15	15	15	15	15	15	15	15	15	15	15	15
AC-FT	11040	9790	10670	19540	5010	14000	2120	10180	29890	58080	23170	8500

CAL YR 1975 TOTAL 167431 MEAN 459 MAX 2640 MIN 15 AC-FT 332100
WTR YR 1976 TOTAL 101837 MEAN 278 MAX 2490 MIN 15 AC-FT 202000

07360501 LITTLE MISSOURI RIVER AT NARROWS DAM, NEAR MURFREESBORO, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	1110	1510	15	15	15	2530	122	15	15	15	1370
2	15	1030	377	15	444	300	2480	204	278	99	15	104
3	15	984	209	15	90	353	1550	1540	224	15	136	15
4	392	1150	15	15	152	949	483	1340	84	15	15	15
5	15	583	15	15	15	242	773	597	369	15	15	15
6	15	15	514	15	15	15	1120	923	59	15	15	15
7	15	15	913	86	15	763	1170	15	15	15	149	15
8	426	806	411	15	15	783	15	15	15	935	15	15
9	15	625	15	15	348	1330	15	50	15	1410	15	15
10	15	982	15	1200	15	48	15	807	15	15	15	15
11	15	1060	284	465	254	297	340	15	15	151	15	15
12	15	156	15	91	15	413	15	15	101	15	15	15
13	626	928	162	15	15	15	624	768	15	588	15	15
14	15	372	1330	15	15	881	1160	15	15	98	15	15
15	1480	1110	820	15	380	988	1100	624	43	15	178	15
16	15	661	15	193	15	830	766	15	15	15	620	950
17	15	451	151	78	75	945	15	761	15	15	15	1170
18	419	209	15	1670	333	15	734	437	15	15	15	978
19	918	15	15	942	15	196	1020	346	15	221	15	15
20	775	222	438	102	15	108	656	15	15	137	15	220
21	559	15	135	371	75	955	514	15	15	438	15	15
22	766	441	15	15	206	330	862	15	15	199	15	338
23	15	15	15	15	15	413	15	541	15	15	15	571
24	15	15	15	322	230	962	15	15	15	240	15	911
25	1000	15	15	115	160	65	15	15	15	15	467	1000
26	241	80	15	15	15	15	948	15	15	15	15	1750
27	304	848	15	15	15	15	1100	803	15	15	15	1860
28	481	276	15	608	15	820	1220	15	15	276	15	1830
29	1430	1740	448	15	---	1010	1360	336	104	15	15	1910
30	271	582	15	15	---	1270	152	15	15	15	339	1950
31	15	---	15	15	---	2510	---	87	---	15	805	---
TOTAL	10328	16511	7957	6513	2987	17851	22782	10496	1592	5077	3054	17137
MEAN	333	550	257	210	107	576	759	339	53.1	164	98.5	571
MAX	1480	1740	1510	1670	444	2510	2530	1540	369	1410	805	1950
MIN	15	15	15	15	15	15	15	15	15	15	15	15
AC-FT	20490	32750	15780	12920	5920	35410	45190	20820	3160	10070	6060	33990

CAL YR 1976 TOTAL 120746 MEAN 330 MAX 2490 MIN 15 AC-FT 239500
WTR YR 1977 TOTAL 122285 MEAN 335 MAX 2530 MIN 15 AC-FT 242600

07360501 LITTLE MISSOURI RIVER AT NARROWS DAM, NEAR MURFREESBORO, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year. August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Flow completely regulated by Lake Greeson.

COOPERATION.--Records furnished for location immediately below dam by Corps of Engineers.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT					
31...	810	23	6.6	17.5	6.5
NOV					
07...	810	46	6.5	17.0	2.6
14...	810	56	6.2	14.5	7.6
21...	810	25	6.5	12.0	11.0
28...	810	25	6.5	12.0	6.3
DEC					
05...	810	14	6.7	15.0	7.0
12...	810	30	6.5	11.0	6.3
19...	810	32	6.6	11.0	5.7
27...	810	44	6.8	5.0	10.2
JAN					
03...	810	26	6.6	4.0	14.2
09...	810	26	6.6	6.0	15.4
17...	810	27	6.5	7.0	17.0
23...	810	21	6.5	7.0	8.6
FEB					
01...	810	27	6.6	6.0	8.5
06...	810	40	6.4	6.0	9.8
13...	810	--	6.4	6.0	9.2
20...	810	31	6.6	6.0	7.8
27...	810	41	6.7	5.0	8.2
MAR					
07...	810	50	6.2	7.0	11.2
13...	810	56	6.5	6.5	10.2
20...	810	50	6.6	12.0	10.3
27...	810	39	6.5	8.0	12.2
APR					
03...	810	41	6.5	9.5	12.2
11...	810	50	6.9	11.0	10.2
17...	810	19	6.8	11.0	9.6
25...	810	37	6.9	12.0	11.2
MAY					
01...	810	30	6.6	11.0	10.2
08...	810	44	6.6	11.0	11.0
15...	810	45	6.4	12.0	7.5
22...	810	45	6.6	11.0	8.2
31...	810	37	6.5	13.0	7.3
JUN					
05...	810	35	6.7	16.0	8.4
14...	810	31	6.6	18.5	8.4
20...	810	27	6.6	18.0	8.2
27...	810	37	6.5	13.0	6.6
JUL					
05...	810	48	6.3	14.0	6.6
11...	810	24	6.3	13.0	6.0
18...	810	24	6.3	15.0	6.4
25...	810	24	6.3	14.0	7.8
AUG					
01...	810	23	6.3	17.0	6.8
07...	810	59	7.3	28.0	6.6
08...	810	21	6.7	21.0	9.4
16...	810	22	6.6	19.0	5.7
23...	810	22	6.3	20.0	5.7
29...	810	11	6.6	18.0	16.2
SEP					
05...	810	41	6.5	18.0	13.2
12...	810	36	6.3	15.5	8.5
20...	810	25	6.3	14.0	4.5
26...	810	23	3.6	5.5	6.5

07361000 LITTLE MISSOURI RIVER NEAR MURFREESBORO, AR

LOCATION.--Lat 34°02'55", long 93°43'12", in NE¼NE¼ sec.24, T.8 S., R.26 W., Pike County, Hydrologic Unit 08040103, near right bank on downstream side of bridge on State Highway 27, 1.8 mi (2.9 km) downstream from Muddy Fork Creek, 2.0 mi (3.2 km) southwest of Murfreesboro, 4.6 mi (7.4 km) upstream from Prairie Creek, 11.4 mi (18.3 km) downstream from Lake Greeson, and at mile 94.1 (151.4 km).

DRAINAGE AREA.--380 mi^2 (984 km^2).

PERIOD OF RECORD.--October and November 1927 and January 1928 (fragmentary), February 1928 to September 1931, July 1937 to September 1977.

REVISED RECORDS.--WSP 1007: 1938, 1941.

GAGE.--Water-stage recorder. Datum of gage is 324.28 ft (98.841 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1931, nonrecording gage at site 100 ft (30 m) upstream at present datum. July 10, 1937, to Nov. 10, 1938, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Lake Greeson 11.4 mi (18.3 km) upstream since November 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years (1928-31, 1937-77), 620 ft^3/s (17.6 m^3/s), 449,200 acre-ft/yr (554 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft^3/s (3,400 m^3/s) Mar. 30, 1945, gage height, 19.84 ft (6.047 m), from rating curve extended above 38,000 ft^3/s (1,080 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 2.9 ft^3/s (0.082 m^3/s) Sept. 1, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD,--Flood in April 1927 reached a stage of about 21 ft (6.4 m) from information by State Highway Department.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 10,800 ft^3/s (306 m^3/s) Mar. 8, gage height, 11.0 ft (3.353 m); minimum daily, 6.0 ft^3/s (0.17 m^3/s) Oct. 8.

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 16,300 ft^3/s (462 m^3/s) Mar. 3, gage height, 12.63 ft (3.850 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Aug. 2, Sept. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	286	10	27	168	73	105	324	52	66	2990	179	15
2	66	13	152	125	144	246	155	43	108	3560	32	145
3	92	23	96	328	70	97	110	38	82	2800	22	23
4	40	14	34	106	78	85	95	34	64	1400	19	19
5	21	19	26	1190	245	274	82	306	54	405	68	138
6	9.0	17	26	194	410	170	73	1480	336	215	1220	125
7	13	14	32	674	203	120	84	1520	829	148	356	21
8	6.0	15	38	1580	152	3860	62	243	360	105	31	14
9	30	15	32	1720	132	3540	56	130	194	702	20	74
10	915	12	27	356	115	1090	52	296	240	206	38	52
11	784	10	24	164	97	598	49	664	356	316	132	14
12	277	7.0	174	79	99	405	44	155	197	1650	148	12
13	268	730	65	68	120	285	42	608	52	1490	374	11
14	779	1120	25	396	85	360	43	449	76	268	647	99
15	295	65	286	416	72	336	40	378	70	49	257	52
16	27	23	65	288	70	374	38	320	526	344	296	246
17	20	18	282	84	608	250	36	212	696	101	1450	1220
18	16	14	774	58	2500	232	37	155	960	38	1530	101
19	14	16	1190	55	702	195	76	130	488	176	396	30
20	11	29	68	91	438	209	498	87	194	2640	49	21
21	10	34	28	99	855	161	313	91	101	836	20	87
22	10	31	23	76	471	822	155	182	80	669	17	58
23	9.0	23	102	64	310	1240	105	61	191	1120	14	14
24	22	603	44	64	250	1240	97	56	203	1050	14	76
25	36	784	36	218	735	1240	135	60	5190	810	99	128
26	13	150	72	352	254	176	91	67	1980	1400	564	21
27	7.0	44	68	952	150	93	70	803	1760	1490	1030	152
28	7.0	23	55	203	132	85	60	164	1970	1320	197	23
29	106	20	1960	278	118	356	130	91	2890	757	34	15
30	23	29	449	103	---	400	101	68	2800	810	22	13
31	49	---	642	74	---	209	---	67	---	586	14	---
TOTAL	4261.0	3925.0	6932	10623	9693	18853	3253	9010	23113	30451	9289	3019
MEAN	137	131	224	343	334	608	108	291	770	982	300	101
MAX	915	1120	1960	1720	2500	3860	498	1520	5190	3560	1530	1220
MIN	6.0	7.0	23	55	70	85	36	34	52	38	14	11
AC-FT	8450	7790	13750	21070	19230	37390	6450	17870	45840	60400	18420	5990

CAL YR 1975 TOTAL 236369.0 MEAN 648 MAX 6610 MIN 6.0 AC-FT 468800
WTR YR 1976 TOTAL 132422.0 MEAN 362 MAX 5190 MIN 6.0 AC-FT 262700

07361000 LITTLE MISSOURI RIVER NEAR MURFREESBORO, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	520	1400	30	68	164	2810	181	46	32	15	823
2	12	1090	740	28	320	229	2850	285	62	28	10	708
3	12	1060	218	26	296	6690	1960	842	215	80	48	34
4	26	982	67	25	400	3600	3050	1410	112	24	64	18
5	218	842	48	28	229	1120	1250	823	188	18	18	15
6	26	93	142	37	148	476	1440	310	76	15	13	14
7	14	36	784	66	120	960	1520	392	44	14	32	14
8	212	352	352	74	101	810	530	67	17	79	72	12
9	43	603	257	105	257	1540	173	61	14	1620	14	13
10	15	652	66	870	120	295	142	592	13	332	12	12
11	12	1040	292	784	945	246	306	79	13	34	11	11
12	12	93	559	191	2650	810	125	40	31	99	12	10
13	254	586	296	182	652	360	285	155	103	103	12	12
14	76	324	1310	460	378	713	915	296	36	232	12	17
15	185	790	740	288	537	855	1160	85	36	72	17	12
16	310	938	246	221	226	960	630	306	67	20	236	167
17	26	878	179	316	229	829	250	64	581	15	238	790
18	14	173	93	1000	630	328	1580	570	222	14	22	784
19	620	49	72	1560	142	206	1280	278	103	66	14	382
20	620	67	125	243	108	176	2180	173	70	110	12	66
21	432	232	352	328	145	438	1250	36	54	274	14	79
22	515	348	70	105	232	658	1210	25	43	158	14	26
23	80	89	50	91	432	336	520	257	36	128	93	320
24	25	58	46	222	576	432	218	76	30	115	67	504
25	718	52	44	438	369	306	161	28	28	61	95	762
26	548	108	43	138	268	78	542	22	40	24	203	1380
27	112	332	40	118	296	658	774	138	101	31	22	1750
28	680	548	37	197	194	4370	1190	285	60	37	19	1910
29	796	1600	97	378	---	1880	1320	37	40	155	15	1920
30	396	658	191	85	---	1400	369	203	95	21	56	1910
31	286	---	37	78	---	2720	---	54	---	16	454	---
TOTAL	7307	15193	8993	8712	11068	34643	31990	8170	2576	4027	1936	14475
MEAN	236	506	290	281	395	1118	1066	264	85.9	130	62.5	483
MAX	796	1600	1400	1560	2650	6690	3050	1410	581	1620	454	1920
MIN	12	36	37	25	68	78	125	22	13	14	10	10
AC-FT	14490	30140	17840	17280	21950	68710	63450	16210	5110	7990	3840	28710

CAL YR 1976 TOTAL 148797 MEAN 407 MAX 5190 MIN 11 AC-FT 295100
WTR YR 1977 TOTAL 149090 MEAN 408 MAX 6690 MIN 10 AC-FT 295700

07361500 ANTOINE RIVER AT ANTOINE, AR

LOCATION.--Lat 34°02'20", long 93°25'05", in NW¼NW¼ sec.24, T.8 S., R.23 W., Pike County, Hydrologic Unit 08040103, near right bank on downstream side of bridge on State Highway 26 at Antoine, 1.6 mi (2.6 km) downstream from Brushy Creek, 1.9 mi (3.1 km) downstream from Suck Creek, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--October 1954 to current year. Gage-height records collected in this vicinity since November 1950 (published as "Antoine Creek") are contained in reports of Corps of Engineers.

REVISED RECORDS.--WSP 1511: 1955(M). WRD Ark. 1973: 1972.

GAGE.--Water-stage recorder. Datum of gage is 229.33 ft (69.900 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1954, at site 75 ft (23 m) upstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--24 years, 255 ft³/s (7.22 m³/s), 19.13 in/yr (486 mm/yr), 184,700 acre-ft/yr (228 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,500 ft³/s (1,005 m³/s) May 2, 1958, gage height, 28.75 ft (8.763 m); no flow at times in 1956, 1964, 1969, 1972, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1905 reached a stage of 29.7 ft (9.05 m), from information by State Highway Department, discharge, 40,000 ft³/s (1,133 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,280 ft³/s (121 m³/s) Mar. 7, gage height 15.69 ft (4.782 m), no peak above base of 6,000 ft³/s (170 m³/s); no flow Aug. 21-28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	149	934	47	305	185	182	90	26	5.0	.22	35
2	60	1640	468	40	276	212	165	95	51	4.5	.24	20
3	39	420	325	36	250	374	150	700	71	4.0	.27	13
4	27	236	250	32	225	314	136	600	41	3.5	.24	9.1
5	21	172	203	31	204	276	125	450	30	3.0	.22	6.8
6	16	136	162	31	195	254	114	350	470	2.5	.20	4.7
7	13	110	130	32	187	2570	105	900	710	2.1	.20	3.7
8	12	89	117	30	175	1270	89	650	355	1.9	.17	3.3
9	9.8	94	103	28	171	752	79	500	287	1.9	.15	2.9
10	8.5	103	84	26	166	569	73	350	171	1.8	.12	2.3
11	7.3	69	72	29	168	457	85	300	131	1.5	.10	2.1
12	6.1	55	68	42	173	376	89	220	100	1.2	.08	2.3
13	5.2	49	79	53	543	408	66	180	79	1.0	.07	6.2
14	4.6	42	131	63	424	1490	55	140	66	.85	.08	158
15	3.9	36	112	78	344	713	49	100	51	.94	.08	90
16	3.4	35	90	931	300	522	43	85	39	.86	.06	55
17	3.1	31	93	1610	263	415	43	70	30	.73	.05	37
18	2.6	29	89	735	254	351	212	55	26	.65	.04	26
19	2.3	26	78	520	227	305	152	45	25	.58	.03	19
20	2.1	25	68	400	227	270	97	40	25	.55	.01	14
21	2.0	223	60	331	223	546	73	50	20	.48	.00	11
22	2.0	133	54	278	194	473	64	195	15	.45	.00	8.5
23	2.0	100	52	248	187	367	696	125	15	.45	.00	25
24	1.9	85	50	1140	178	718	420	85	15	.46	.00	29
25	2.1	73	47	2250	169	603	327	63	10	.86	.00	19
26	2.1	61	43	1660	155	473	211	51	10	.83	.00	14
27	1.8	55	39	825	141	388	165	41	9.0	.96	.00	9.9
28	1.8	45	36	587	178	327	134	45	8.0	.75	.00	7.9
29	1.8	177	39	476	---	274	109	41	7.0	.50	.79	5.9
30	1.6	548	47	400	---	232	70	33	6.0	.41	48	4.7
31	1.7	---	52	342	---	201	---	30	---	.28	74	---
TOTAL	362.7	5090	4175	13331	6499	17085	4378	6679	2899.0	45.49	125.42	645.3
MEAN	11.7	170	135	430	232	551	146	215	96.6	1.47	4.05	21.5
MAX	95	1640	934	2250	543	2570	696	900	710	5.0	74	158
MIN	1.6	25	36	26	141	185	43	30	6.0	.28	.00	2.1
CFSM	.07	.94	.75	2.38	1.28	3.04	.81	1.19	.53	.008	.02	.12
IN.	.07	1.05	.86	2.74	1.34	3.51	.90	1.37	.60	.01	.03	.13
AC-FT	719	10100	8280	26440	12890	33890	8680	13250	5750	90	249	1280

CAL YR 1977 TOTAL 76416.50 MEAN 209 MAX 6580 MIN 1.1 CFSM 1.16 IN 15.71 AC-FT 151600
WTR YR 1978 TOTAL 61314.91 MEAN 168 MAX 2570 MIN .00 CFSM .93 IN 12.60 AC-FT 121600

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR

LOCATION.--Lat 33°52'32", long 93°18'16", in NE¼ sec.13, T.10 S., R.22 W., Nevada County, Hydrologic Unit 08040103, on downstream side of bridge on U.S. Highway 67, 1.5 mi (2.4 km) northeast of Boughton, 5.9 mi (9.5 km) downstream from Howard Creek 10.2 mi (16.4 km) downstream from Antoine River, and at mile 46.8 (75.3 km).

DRAINAGE AREA.--1,068 mi^2 (2,766 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1975 in reports of Geological Survey. October 1937 to September 1942 and October 1945 to date in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1968: 1966-67.

GAGE.--Water-stage recorder. Datum of gage is 182.13 ft (55.513 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 19, 1947, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Lake Greeson, 58.7 mi (94.4 km) upstream, since November 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--37 years (1937-42, 1945-77), 1,521 ft^3/s (43.1 m^3/s), 1,102,000 acre-ft/yr (1,360 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft^3/s (1,870 m^3/s) May 3, 1958; maximum gage height, 23.29 ft (7.099 m) May 15, 1968; minimum discharge, 10 ft^3/s (0.28 m^3/s) Sept. 20-30, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1905, 27.2 ft (8.29 m) Mar. 31, 1945, discharge, 111,000 ft^3/s (3,140 m^3/s), from rating curve extended above 62,000 ft^3/s (1,760 m^3/s), from records of Corps of Engineers.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 29,400 ft^3/s (833 m^3/s) Mar. 10, gage height, 20.64 ft (6.291 m); minimum, 40 ft^3/s (1.13 m^3/s) Oct. 26, gage height, 2.47 ft (0.753 m).

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 26,500 ft^3/s (750 m^3/s) Mar. 4, gage height, 20.03 ft (6.105 m); minimum, 25 ft^3/s (0.71 m^3/s) Aug. 17, gage height, 2.48 ft (0.756 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	71	95	930	340	431	1480	378	284	3240	812	79
2	340	74	109	700	294	402	1300	218	344	3460	426	65
3	164	66	179	568	308	515	830	182	333	4140	162	209
4	77	71	330	640	316	368	640	158	284	4280	110	462
5	132	94	130	445	266	515	568	143	224	5260	90	185
6	62	82	95	1200	1180	720	515	1070	260	3910	118	197
7	45	64	86	568	1210	550	445	4440	808	1390	1250	318
8	44	53	90	830	762	4360	414	4040	1150	840	571	108
9	43	48	103	1730	585	17900	368	1040	680	590	145	74
10	42	46	99	1760	515	26800	319	550	445	1170	95	56
11	762	44	89	568	463	9570	291	640	434	630	93	152
12	855	43	86	785	392	3610	266	830	585	812	110	86
13	480	42	170	238	354	2180	253	1700	463	1860	197	58
14	386	515	277	191	354	1660	235	2860	214	1620	512	93
15	830	1180	113	498	340	2040	235	2480	182	595	868	120
16	498	312	312	568	349	1660	225	2710	333	250	470	212
17	120	113	388	424	417	1260	204	1820	700	558	508	390
18	76	77	270	253	3610	1040	191	1040	1380	366	1440	610
19	58	66	830	158	5410	880	191	720	4580	185	1620	322
20	48	62	1180	164	2180	830	312	550	2180	446	630	141
21	44	59	330	253	1630	855	1200	428	905	2450	143	108
22	42	71	143	350	2480	785	830	368	550	1090	93	95
23	41	86	103	294	1510	1380	498	445	428	1060	72	188
24	41	77	115	253	1010	1760	389	302	431	1390	74	97
25	41	480	284	431	808	1900	420	266	3380	1280	54	81
26	41	958	207	1760	1260	1820	498	249	9900	1220	83	266
27	60	316	238	1260	700	740	386	312	26700	1620	730	110
28	48	224	277	1300	532	568	309	1540	7060	1630	1010	172
29	43	107	361	585	480	2040	263	680	3380	1500	458	114
30	82	97	2640	602	---	4060	284	445	3540	1060	162	66
31	89	---	958	424	---	2710	---	340	---	1120	95	---
TOTAL	5720	5598	10687	20730	30055	95909	14359	32944	72137	51022	13201	5234
MEAN	185	187	345	669	1036	3094	479	1063	2405	1646	426	174
MAX	855	1180	2640	1760	5410	26800	1480	4440	26700	5260	1620	610
MIN	41	42	86	158	266	368	191	143	182	185	54	56
AC-FT	11350	11100	21200	41120	59610	190200	28480	65340	143100	101200	26180	10380

CAL YR 1975 TOTAL 617259 MEAN 1691 MAX 30000 MIN 41 AC-FT 1224000
WTR YR 1976 TOTAL 357596 MEAN 977 MAX 26800 MIN 41 AC-FT 709300

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	548	1030	229	418	730	3970	812	139	162	100	446
2	52	840	1500	188	402	655	3890	575	120	157	512	966
3	46	1280	978	180	940	2300	4180	670	101	116	203	725
4	41	1200	470	180	2320	15100	7100	1420	236	124	116	140
5	51	1200	286	182	1800	23800	11500	1700	240	128	130	86
6	65	978	254	215	1200	9260	7850	1420	175	97	105	66
7	141	812	540	402	885	3020	3750	785	282	86	72	61
8	97	314	1280	418	730	2550	2930	740	116	77	58	54
9	200	442	785	571	640	2290	1530	1440	84	118	92	51
10	206	758	576	1360	833	2650	1090	817	56	1440	88	58
11	105	895	1390	1770	1160	1470	900	785	47	690	54	49
12	77	1250	3160	1390	7560	1760	978	386	44	222	39	41
13	63	378	2190	752	11700	2120	680	229	53	191	31	41
14	191	680	1310	1560	7060	1880	840	394	175	212	28	86
15	278	562	2000	2260	2950	1660	1500	526	175	414	28	122
16	758	1000	1500	1440	2120	1780	1560	330	138	180	28	97
17	548	1090	868	1090	1470	1730	1170	466	232	124	120	200
18	138	1120	585	950	1300	1620	3310	302	1060	88	364	978
19	225	358	486	1740	1360	1050	6100	665	526	72	108	955
20	785	274	394	1850	973	810	8750	466	306	59	63	553
21	785	334	526	730	800	700	9500	370	209	159	52	148
22	630	167	218	796	758	1110	6400	162	159	298	50	191
23	680	620	370	517	895	1220	3550	128	130	318	38	105
24	314	366	286	650	1060	925	1800	306	110	212	54	350
25	164	243	302	1170	950	989	1200	274	101	136	206	715
26	1060	218	334	1110	850	906	922	134	185	191	219	1000
27	812	254	302	700	927	1090	1310	105	155	105	342	1520
28	362	758	270	595	950	6770	1060	232	194	108	120	2150
29	730	785	243	730	---	14500	1120	482	215	143	84	3350
30	1250	1680	274	790	---	10900	1170	130	167	310	70	2590
31	785	---	482	458	---	3910	---	314	---	145	58	---
TOTAL	11698	21404	25189	26973	55011	121255	101610	17565	5930	6882	3632	17894
MEAN	377	713	813	870	1965	3911	3387	567	198	222	117	596
MAX	1250	1680	3160	2260	11700	23800	11500	1700	1060	1440	512	3350
MIN	41	167	218	180	402	655	680	105	44	59	28	41
AC-FT	23200	42450	49960	53500	109100	240500	201500	34840	11760	13650	7200	35490

CAL YR 1976 TOTAL 393882 MEAN 1076 MAX 26800 MIN 41 AC-FT 781300
WTR YR 1977 TOTAL 415043 MEAN 1137 MAX 23800 MIN 28 AC-FT 823200

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-55, October 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1947 to September 1955.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	63	6.9	18.0	20	8.3	87	.5	52	--
NOV											
21...	9827	9827	100	7.0	14.0	75	7.6	73	4.5	7500	--
DEC											
19...	9827	9827	97	7.4	10.0	25	10.8	96	.9	13	--
JAN											
23...	9827	9827	88	6.8	3.0	30	12.7	94	2.4	20	28
FEB											
21...	9827	9827	115	7.1	3.0	30	12.9	96	2.5	17	--
MAR											
20...	9827	9827	84	7.0	14.0	30	9.8	94	.9	23	--
APR											
10...	9827	9827	96	7.0	19.0	30	8.1	86	1.0	8	24
MAY											
15...	9827	9827	82	6.8	21.0	--	8.6	96	2.1	160	--
JUN											
12...	9827	9827	84	7.1	26.0	60	8.3	101	2.1	71	--
JUL											
17...	9827	9827	46	7.0	26.0	20	9.4	115	1.6	27	18
AUG											
14...	9827	9827	45	6.9	26.0	10	8.1	99	2.6	160	--
SEP											
11...	9827	9827	55	6.9	27.0	15	9.2	114	2.8	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
24...	6.0	1.4	4.2	1.2	15	3.0	6.5	45	7	<.05
NOV										
21...	--	--	--	--	--	--	7.5	115	245	.23
DEC										
19...	--	--	--	--	--	11	8.0	73	<1	.15
JAN										
23...	7.0	2.0	4.8	1.4	21	10	7.5	75	15	.27
FEB										
21...	--	--	--	--	--	--	8.0	93	16	--
MAR										
20...	--	--	--	--	--	10	6.0	64	15	.18
APR										
10...	6.0	1.7	4.8	1.3	23	11	6.0	62	16	.10
MAY										
15...	--	--	--	--	--	6.0	6.0	74	31	.16
JUN										
12...	--	--	--	--	--	14	5.5	76	28	.20
JUL										
17...	5.0	1.0	2.8	.9	15	4.0	5.0	42	--	.10
AUG										
14...	--	--	--	--	--	3.0	5.0	44	37	.13
SEP										
11...	--	--	--	--	--	4.0	6.0	44	8	--

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
24...	<.05	<.05	.40	.02	<10	<5	<10	900	10	86
NOV										
21...	<.05	.26	.18	.34	--	--	--	--	--	--
DEC										
19...	<.05	.16	.06	.04	--	--	--	--	--	--
JAN										
23...	<.05	.28	.06	.04	<10	<5	<20	890	20	340
FEB										
21...	--	.17	.15	.05	--	--	--	--	--	--
MAR										
20...	<.01	.18	.07	.08	--	--	--	--	--	--
APR										
10...	.02	.12	.10	.05	<10	6	60	1100	20	230
MAY										
15...	.01	.17	.44	.11	--	--	--	--	--	--
JUN										
12...	.02	.22	.12	.08	--	--	--	--	--	--
JUL										
17...	.02	.12	.32	.10	<10	<5	<20	570	30	75
AUG										
14...	.01	.14	.04	.05	--	--	--	--	--	--
SEP										
11...	--	--	--	.05	--	--	--	--	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
24...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
21...	--	--	--	--	--	--	--	--	--	--
DEC										
19...	--	--	--	--	--	--	--	--	--	--
JAN										
23...	--	30	--	--	--	--	--	--	--	--
FEB										
21...	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
10...	--	20	--	--	--	--	--	--	--	--
MAY										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
12...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL										
17...	3.2	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
14...	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP										
11...	--	--	.00	.00	.00	.00	.00	.00	.00	0

07362000 OUACHITA RIVER AT CAMDEN, AR

LOCATION.--Lat 33°35'47", long 92°49'05", in SE¼ sec.14, T.13 S., R.17 W., Ouachita County, Hydrologic Unit 08040102, at bridge on U.S. Highway 79 at Camden, 3.4 mi (5.5 km) downstream from Fcore Fabre Bayou, 6.2 mi (10.0 km) upstream from Two Bayou Creek, and at mile 354.1 (569.7 km).

DRAINAGE AREA.--5,391 mi^2 (13,960 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1928 to September 1960 and October 1965 to September 1977 in reports of Geological Survey. October 1929 to date in reports of Corps of Engineers. Monthly discharge only October 1929 to September 1960 published in WSP 1311 and WSP 1731. Gage heights collected in this vicinity since 1885 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 71.69 ft (21.851 m) 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 (0.6 km) downstream at present datum. Aug. 10, 1928, to May 31, 1949, supplementary nonrecording gage, 4.5 mi (7.2 km) upstream. Since Jan. 1, 1957, auxiliary water-stage recorder 3.2 mi (5.1 km) downstream.

REMARKS.--Flow regulated by Lake Catherine, 102 mi (164 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), by Lake Greeson since 1949 (see station 07360500), by Lake Ouachita since 1952 (see station 07357500), and by DeGray Lake since August 1969 (see station 07359900).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years, 7,454 ft^3/s (211 m^3/s), 5,400,000 acre-ft/yr (6,660 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 243,000 ft^3/s (6,880 m^3/s) Apr. 3, 1945, gage height, 44.82 ft (13.661 m); minimum, 125 ft^3/s (3.54 m^3/s) Sept. 16, 24-26, 1943.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 39,600 ft^3/s (1,120 m^3/s) Mar. 13, gage height, 32.15 ft (9.799 m); minimum, 629 ft^3/s (17.8 m^3/s) Aug. 7, gage height, 3.96 ft (1.207 m).

EXTREMES FOR WATER YEAR 1977.--Maximum discharge, 36,600 ft^3/s (1,040 m^3/s) Apr. 2, gage height, 30.89 ft (9.415 m); minimum, 711 ft^3/s (20.1 m^3/s) Aug. 23, gage height, 3.73 ft (1.137 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	824	1030	3330	4730	3110	2740	12700	2190	2670	13200	2090	1610
2	926	2650	3040	2870	2350	2370	11700	1850	2600	8060	2070	1640
3	1120	1160	4520	4310	2020	2160	6820	1640	2200	6830	1620	3030
4	1210	1260	2990	6050	2580	2140	4930	1470	2100	6530	1140	3320
5	1160	3120	2420	4880	3210	2180	4110	1520	1970	11200	1000	5030
6	838	1520	2830	4450	2590	2970	3880	1030	1870	18000	720	2850
7	809	1230	1900	4230	6260	4040	2560	2100	3490	18600	629	2470
8	1000	1100	1840	4090	5250	4340	2580	7660	6300	15300	1010	2350
9	887	1240	1670	4790	5160	14300	2360	8450	6590	8960	1830	2000
10	881	1230	1590	6280	3890	25800	2160	6140	6480	5510	849	1760
11	1730	1070	1820	5320	3320	29800	2100	3430	4160	2860	785	1630
12	3370	1660	2090	3090	2630	38600	1920	2160	2680	2920	658	1370
13	3630	1150	2770	2170	2540	39600	1800	2910	2240	2160	794	1850
14	3380	1020	1540	1810	2310	34900	1700	6410	2150	2880	2710	2120
15	3990	4300	1600	1900	2110	22900	1690	13000	1720	4190	3010	2060
16	3620	5190	1700	1730	2050	16000	2050	9080	1770	2860	3660	2110
17	4560	2990	1900	2210	1950	11200	2160	11500	10700	1620	4170	2500
18	3190	1490	3590	2480	2810	7790	1890	8840	14000	1260	2840	2630
19	1420	1820	4530	1680	10800	5440	1400	6220	11100	1790	4370	3420
20	1040	1290	5600	1610	13800	4160	1550	3810	17100	1150	4180	1910
21	1000	2730	5010	2150	13900	3750	3620	1480	17200	1030	4260	1110
22	1030	2860	2890	2420	10800	4200	4940	2200	10900	2780	2930	2330
23	767	3550	3090	2780	9280	3550	5620	5460	7360	2570	2440	2510
24	922	3270	2840	2280	7630	3020	3080	3230	4000	1840	2510	3220
25	1080	3290	1870	2840	5950	4320	2470	2640	3280	2180	2820	2940
26	1100	4600	2440	4070	5760	4850	3520	3720	6820	2790	2340	3370
27	1310	5380	3320	8090	4120	4270	2650	3400	12800	2280	2370	3370
28	1170	5120	3050	6370	4040	4150	2610	2840	15100	3960	2740	1730
29	1230	4480	2930	6090	3360	3650	2360	6540	14400	3270	4180	2150
30	1200	3760	2350	4760	---	7700	2310	4730	14300	2550	3180	2630
31	924	---	5620	3700	---	11400	---	3540	---	2210	1620	---
TOTAL	51318	76560	88680	116230	145580	328290	107240	141190	210050	163340	71525	73020
MEAN	1655	2552	2861	3749	5020	10590	3575	4555	7002	5269	2307	2434
MAX	4560	5380	5620	8090	13900	39600	12700	13000	17200	18600	4370	5030
MIN	767	1020	1540	1610	1950	2140	1400	1030	1720	1030	629	1110
AC-FT	101800	151900	175900	230500	288800	651200	212700	280100	416600	324000	141900	144800

CAL YR 1975 TOTAL 3202555 MEAN 8774 MAX 51900 MIN 767 AC-FT 6352000
WTR YR 1976 TOTAL 1573023 MEAN 4298 MAX 39600 MIN 629 AC-FT 3120000

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2630	5100	5800	1920	2640	3240	35900	3530	1130	1200	1580	762
2	2590	3080	5590	2540	2490	2880	36600	3030	1600	1210	1420	2520
3	2950	4760	5080	1770	2280	2570	35300	3380	1060	1090	1760	3640
4	2760	6030	5390	1650	3290	15300	33700	3530	1180	1220	2140	3250
5	1960	6330	4150	1510	7370	22100	32000	4060	1260	958	1380	2420
6	2620	6010	4220	1580	7230	29300	32800	6440	1280	952	1140	1880
7	2920	4820	3150	1610	6120	33200	32900	5140	966	945	790	1650
8	3130	3180	5310	2470	4580	34800	31800	3830	1070	898	860	2120
9	3420	2210	5690	2910	4220	32200	28800	5010	1070	958	940	2550
10	3800	4420	5140	3320	3210	23700	23300	4750	1020	804	908	1970
11	1750	3270	4530	5560	2830	17700	18500	4790	976	1060	1060	1130
12	1150	3910	7990	6830	4580	14100	14800	4030	865	2560	937	891
13	3190	6150	11400	5970	13800	13900	11400	3190	894	1520	791	746
14	2600	4990	10800	4560	18000	10500	9910	2540	1080	1130	759	750
15	2760	4320	9340	8810	18200	8150	9340	2790	880	2490	737	1230
16	3000	4860	7620	11500	18300	6430	7530	2540	1070	2140	727	1310
17	2460	4940	6720	10500	17700	5920	6860	1740	1270	1800	2120	2080
18	3570	5430	5000	8670	9700	4870	6890	2130	2070	1240	2310	1930
19	3080	4460	2840	7780	5800	5000	13300	1690	9180	780	1420	2430
20	2980	4500	2540	6050	4370	4530	14400	2020	6880	1080	1090	2210
21	3440	4870	2030	7100	4040	3290	21100	2060	3360	2040	894	1980
22	3650	3400	3890	4530	3410	2760	28000	1620	2380	1750	846	2090
23	3460	2350	5090	3920	3140	2400	30500	1270	2140	1890	711	2210
24	3140	4180	2910	3560	3120	3080	31300	1170	2150	1580	718	3070
25	3990	4340	1960	4040	5380	2390	26400	1360	1460	1260	786	2350
26	5760	3930	1940	4850	4440	2180	13000	1400	1010	1060	743	2840
27	6540	3480	2360	5020	3900	3850	10900	1180	1340	880	796	3380
28	6240	3920	2400	4280	4820	7290	5580	2320	3110	1120	945	3640
29	5250	3880	2190	3640	---	20600	4360	1470	2800	968	851	4460
30	5160	5040	1960	3360	---	30400	4020	1810	1910	960	816	5360
31	5220	---	1760	3570	---	24600	---	1220	---	1130	784	---
TOTAL	107170	132160	146840	145380	188960	393230	611190	87040	58461	40673	33759	68849
MEAN	3457	4405	4737	4690	6749	12680	20370	2808	1949	1312	1089	2295
MAX	6540	6330	11400	11500	18300	34800	36600	6440	9180	2560	2310	5360
MIN	1150	2210	1760	1510	2280	2180	4020	1170	865	780	711	746
AC-FT	212600	262100	291300	288400	374800	780000	1212000	172600	116000	80670	66960	136500

CAL YR 1976 TOTAL 1742635 MEAN 4761 MAX 39600 MIN 629 AC-FT 3457000
WTR YR 1977 TOTAL 2013712 MEAN 5517 MAX 36600 MIN 711 AC-FT 3994000

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-52, October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to current year.
WATER TEMPERATURES: July 1976 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 197 micromhos Oct. 27, 1978; minimum, 52 micromhos Jan. 29, 30, 1978.
WATER TEMPERATURES: Maximum, 32.0°C July 13, 1977, July 10, 1978; minimum, 1.0°C Jan. 19, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 197 micromhos Oct. 27; minimum, 52 micromhos Jan. 29, 30.
WATER TEMPERATURES: Maximum, 32.0°C July 10; minimum, 2.0°C Jan. 20, 21, 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	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)	HARDNESS (MG/L AS CACO3) (00900)
OCT												
17...	1028	1028	--	--	--	--	--	--	--	--	--	--
17...	1028	1028	965	116	7.6	17.0	--	8.9	95	K11	K28	29
NOV												
17...	1028	1028	2040	111	7.2	14.5	--	9.7	98	K33	K28	32
DEC												
13...	1028	1028	3680	83	7.2	9.0	--	10.5	94	K33	80	29
JAN												
26...	1028	1028	--	82	6.8	3.5	--	11.7	91	330	K4200	23
FEB												
17...	1028	1028	--	99	6.6	5.5	--	11.4	93	K67	1100	30
MAR												
29...	1028	1028	--	--	--	--	--	--	--	--	--	--
29...	1028	1028	--	89	6.9	12.0	--	9.2	84	K11	K12	24
APR												
25...	1028	1028	--	90	7.2	17.5	--	7.7	83	370	--	31
MAY												
19...	1028	1028	--	84	7.1	21.0	--	7.7	88	K27	K40	27
JUN												
29...	1028	1028	--	64	7.2	30.0	7.8	6.8	91	K22	K27	23
JUL												
25...	1028	1028	--	62	6.8	29.0	6.6	6.7	88	K5	K5	21
AUG												
22...	1028	1028	--	64	7.5	30.0	15	7.8	104	K13	K12	23
SEP												
25...	1028	1028	--	62	7.6	22.5	9.0	9.1	107	K44	--	19

DATE	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	11	8.5	2.0	8.1	36	.6	1.9	22	0	18	.9	11
NOV												
17...	12	10	1.8	9.8	37	.8	2.5	25	0	21	2.5	12
DEC												
13...	11	9.0	1.6	5.6	28	.5	1.7	22	0	18	2.2	12
JAN												
26...	11	7.2	1.2	4.2	27	.4	1.8	15	0	12	3.8	11
FEB												
17...	14	9.5	1.5	4.6	24	.4	1.3	19	0	16	7.6	11
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	8	7.3	1.5	6.3	34	.6	1.8	20	0	16	4.0	9.9
APR												
25...	16	10	1.5	3.5	19	.3	1.3	18	0	15	1.8	7.0
MAY												
19...	8	8.4	1.5	4.1	24	.3	1.0	23	0	19	2.9	7.0
JUN												
29...	9	6.5	1.6	3.0	21	.3	1.0	--	--	14	--	4.8
JUL												
25...	4	6.0	1.4	3.5	26	.3	1.1	--	--	17	--	6.4
AUG												
22...	6	6.3	1.7	4.0	25	.4	2.2	--	--	17	--	5.4
SEP												
25...	4	5.0	1.7	4.8	33	.5	1.2	--	--	15	--	7.0

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
OCT												
17...	14	.2	3.4	52	60	.07	135	.16	.01	.36	.37	--
NOV												
17...	13	.1	3.0	67	65	.09	369	.34	.01	--	--	--
DEC												
13...	7.9	.1	5.3	57	54	.08	566	.22	.20	--	--	--
JAN												
26...	7.7	.1	5.0	61	46	.08	--	.24	.07	.50	.57	.24
FEB												
17...	12	.1	5.8	62	55	.08	--	.18	.02	.43	.45	.39
MAR												
29...	8.9	.0	4.9	46	50	.06	--	.28	.14	.25	.39	.00
APR												
25...	11	.1	4.7	58	48	.08	--	.15	.09	.56	.65	.00
MAY												
19...	9.2	.1	6.3	60	49	.08	--	.15	.05	.33	.38	.16
JUN												
29...	4.2	.1	4.6	35	34	.05	--	.06	.01	5.0	5.0	4.8
JUL												
25...	4.0	.1	5.1	41	38	.06	--	.10	.01	.45	.46	.07
AUG												
22...	3.8	.1	4.5	39	38	.05	--	.05	.02	.45	.47	.05
SEP												
25...	4.5	.1	6.0	42	38	.06	--	.14	.02	.33	.35	.15

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC SUSPENDED TOTAL (UG/L AS AS) (01001)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA) (01006)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)
OCT												
17...	.37	.53	2.3	.02	.02	2	2	0	200	200	0	<10
NOV												
17...	.27	--	--	.04	.02	--	--	--	--	--	--	--
DEC												
13...	.44	--	--	.05	.01	--	--	--	--	--	--	--
JAN												
26...	.33	.81	3.6	.15	.04	1	1	0	100	100	0	1
FEB												
17...	.06	.63	2.8	.07	.03	--	--	--	--	--	--	--
MAR												
29...	.39	.67	3.0	.09	.03	--	--	--	--	--	--	--
APR												
25...	.65	.80	3.5	.05	.01	1	0	1	100	100	0	1
MAY												
19...	.22	.53	2.3	.05	.02	--	--	--	--	--	--	--
JUN												
29...	.25	5.1	22	.05	.02	--	--	--	--	--	--	--
JUL												
25...	.39	.56	2.5	.03	.00	--	--	2	200	0	200	2
AUG												
22...	.42	.52	2.3	.05	.02	--	--	--	--	--	--	--
SEP												
25...	.20	.49	2.2	.03	.01	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD) (01026)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR) (01031)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO) (01036)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
OCT												
17...	<10	0	10	0	10	<50	<50	0	<10	<10	0	590
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
26...	1	0	10	0	10	0	0	0	37	29	8	3400
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	0	1	0	0	0	1	0	1	4	0	4	1300
MAY												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
25...	1	1	0	0	0	1	0	1	23	15	8	890
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, TOTAL (UG/L AS SE) (01147)
OCT												
17...	--	80	<100	<100	0	90	40	50	.0	.0	.0	0
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
26...	--	120	5	3	2	220	130	90	.1	.1	.0	0
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	--	160	22	16	6	130	110	20	.0	.0	.0	0
MAY												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
25...	760	130	81	79	2	140	40	100	--	--	.0	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
25...	--	--	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE) (01146)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG) (01076)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	PCB, TOTAL (UG/L) (39516)
OCT 17...	0	0	<10	<10	0	10	0	10	--	3.0	.3	--
NOV 17...	--	--	--	--	--	--	--	--	--	--	--	ND
DEC 13...	--	--	--	--	--	--	--	--	3.1	--	--	--
JAN 26...	0	0	0	0	0	30	10	20	--	6.8	2.0	ND
FEB 17...	--	--	--	--	--	--	--	--	4.1	--	--	--
MAR 29...	--	--	--	--	--	--	--	--	4.1	--	--	--
APR 25...	0	0	0	0	0	10	10	0	--	9.2	1.4	--
MAY 19...	--	--	--	--	--	--	--	--	4.4	--	--	ND
JUN 29...	--	--	--	--	--	--	--	--	2.4	--	--	--
JUL 25...	--	0	0	0	0	20	0	20	--	3.0	.4	--
AUG 22...	--	--	--	--	--	--	--	--	3.7	--	--	ND
SEP 25...	--	--	--	--	--	--	--	--	2.6	--	--	--

DATE	AROCLOR TOT. IN BOT MAT 1254 PCB SERIES (UG/KG) (39507)	ALDRIN, TOTAL (UG/L) (39330)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39333)	ATRAZINE, TOTAL (UG/L) (39630)	CHLORDANE, TOTAL (UG/L) (39350)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39351)	DDD, TOTAL (UG/L) (39360)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG) (39363)	DDE, TOTAL (UG/L) (39365)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39368)	DDT, TOTAL (UG/L) (39370)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG) (39373)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 17...	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 26...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 25...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	ND	--	--	ND	--	ND	--	ND	--	ND	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/KG) (39571)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN, TOTAL (UG/L) (39390)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION, TOTAL (UG/L) (39398)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR, TOTAL (UG/L) (39410)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)
OCT												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
26...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
25...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
SEP												
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	LINDANE TOTAL (UG/L) (39340)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION, TOTAL (UG/L) (39530)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR, TOTAL (UG/L) (39480)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	METHYL PARATHION, TOTAL (UG/L) (39600)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG) (39601)	METHYL TRITHION, TOTAL (UG/L) (39790)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG) (39791)	PARATHION, TOTAL (UG/L) (39540)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39541)
OCT												
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
26...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
25...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
SEP												
25...	--	--	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SIMAZINE TOTAL COULSON COND. (UG/L) (39025)	TOXAPHENE, TOTAL (UG/L) (39400)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG) (39787)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
17...	--	--	--	--	--	--	--	--	16	42	78
NOV											
17...	ND	ND	ND	ND	ND	ND	ND	ND	45	248	49
DEC											
13...	--	--	--	--	--	--	--	--	26	258	96
JAN											
26...	ND	ND	--	ND	--	ND	ND	ND	--	--	--
FEB											
17...	--	--	--	--	--	--	--	--	29	--	85
MAR											
29...	--	--	--	--	--	--	--	--	43	--	87
MAY											
19...	ND	ND	--	ND	--	--	--	--	43	--	84
JUN											
29...	--	--	--	--	--	--	--	--	35	--	82
JUL											
25...	--	--	--	--	--	--	--	--	22	--	89
AUG											
22...	--	ND	--	ND	--	--	--	--	26	--	89
SEP											
25...	--	--	--	--	--	--	--	--	44	--	59

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
OCT. 17	21	.394	.394	.000	.006	.002	.000	POLYETHYLENE STRIP
MAR. 29	40	.709	.551	.158	.020	.000	7.90	POLYETHYLENE STRIP

07362000 OUACHITA RIVER AT CAMDEN, AR--CONTINUED

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	165	106	106	72	117	95	109	78	74	66	80
2	80	155	109	100	81	106	---	103	81	66	63	75
3	88	145	95	95	83	96	89	114	82	61	62	74
4	67	136	94	102	85	---	110	118	81	61	63	78
5	68	140	95	109	84	105	101	112	72	75	60	78
6	76	135	94	97	100	101	95	89	72	64	66	80
7	88	125	93	110	102	105	84	77	79	62	63	81
8	99	117	98	92	114	106	87	73	90	67	63	82
9	103	113	91	96	94	103	---	80	79	68	70	77
10	103	115	78	93	87	97	85	76	70	65	73	80
11	107	105	94	114	102	92	98	71	64	75	74	78
12	110	106	91	88	99	88	101	79	73	62	75	72
13	109	87	83	68	99	91	95	80	78	70	79	73
14	106	100	102	72	98	93	95	88	95	68	79	73
15	104	110	100	56	113	88	111	80	81	66	75	70
16	107	108	100	74	---	102	126	88	84	88	68	68
17	115	111	112	87	91	88	138	93	79	74	70	69
18	121	137	108	76	102	83	134	92	76	73	69	71
19	126	103	117	71	90	82	113	83	83	84	67	73
20	130	92	122	65	107	86	97	107	88	85	68	73
21	131	89	118	64	98	82	110	95	81	76	64	64
22	126	91	119	63	108	88	107	85	81	65	60	64
23	134	107	122	64	112	94	100	91	78	72	59	58
24	142	102	118	64	101	99	103	88	84	81	71	56
25	160	98	118	66	112	99	89	75	76	80	67	54
26	170	99	112	61	122	104	90	79	66	87	63	58
27	197	104	115	59	116	99	98	83	71	70	62	62
28	176	106	116	56	117	96	109	77	88	76	58	67
29	172	96	113	52	---	89	105	75	83	88	58	58
30	173	98	110	52	---	92	100	70	87	85	52	58
31	173	---	116	57	---	94	---	77	---	75	59	---
MEAN	120	113	105	78	100	96	103	87	77	70	66	70

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

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

07362100 SMACKOVER CREEK NEAR SMACKOVER, AR

LOCATION.--Lat 33°22'33", long 92°46'37", in NW¼SE¼ sec.32, T.15 S., R.16 W., Union County, Hydrologic Unit 08040201, near right bank on downstream side of bridge on State Highway 7, 0.1 mi (0.2 km) downstream from Camp Creek, 3.3 mi (5.3 km) northwest of Smackover, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--377 mi² (976 km²).

PERIOD OF RECORD.--October 1961 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since September 1938. Daily stages 1940 to date and results of discharge measurements 1947 to 1960 are published in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1967: 1965.

GAGE.--Water-stage recorder. Datum of gage is 97.56 ft (29.736 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--17 years, 372 ft³/s (10.5 m³/s), 13.40 in/yr (340 mm/yr), 269,500 acre-ft/yr (332 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,700 ft³/s (1,490 m³/s) June 8, 1974, gage height, 24.97 ft (7.611 m), from rating curve extended above 31,000 ft³/s (878 m³/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 discharge above base of 2,400 ft³/s (68 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 8	0100	*4,610	131	14.84	4.523
May 14	1000	2,690	76.2	13.20	4.023

No flow Aug. 24-27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	4.3	141	44	151	253	144	146	80	8.1	3.0	26
2	15	3.3	137	42	152	326	133	149	112	7.5	3.5	16
3	13	2.9	114	38	151	363	124	258	132	6.6	3.0	11
4	8.5	4.2	76	34	151	360	116	518	149	6.3	2.1	7.4
5	6.1	4.3	52	30	142	396	110	652	129	8.1	1.5	5.9
6	5.0	12	37	27	130	424	104	584	98	19	1.1	5.2
7	4.4	11	29	27	113	425	100	2110	239	13	.70	4.7
8	4.0	7.6	25	37	104	394	94	3620	426	8.3	.40	4.3
9	3.8	5.3	23	46	103	420	88	2430	385	7.0	.31	3.9
10	4.8	5.5	23	141	99	369	84	1090	213	5.6	.07	3.6
11	4.7	5.2	23	117	96	273	107	1020	120	4.8	.03	3.4
12	4.4	5.4	22	98	104	217	181	1150	87	4.0	.04	3.3
13	3.8	13	23	92	694	190	172	2280	66	3.7	.71	4.1
14	3.8	12	43	98	395	244	131	2630	53	3.2	1.5	4.4
15	3.8	9.9	55	102	344	376	107	2240	47	4.3	1.2	4.1
16	4.5	9.1	58	137	282	374	91	1650	43	5.7	.99	3.9
17	3.7	8.5	51	321	194	278	86	1090	40	4.4	.99	3.6
18	3.9	8.1	50	418	170	206	272	430	39	3.1	.88	3.8
19	4.8	7.6	46	387	154	171	427	242	38	2.5	.77	3.6
20	4.5	7.1	39	278	173	155	274	201	46	2.0	.55	3.3
21	2.7	12	34	179	155	160	163	171	70	1.6	.37	2.6
22	2.6	22	31	140	142	202	121	166	51	1.5	.29	2.0
23	2.4	58	28	125	124	229	101	287	39	1.3	.08	1.7
24	2.2	53	25	169	117	307	138	412	30	.92	.00	1.4
25	2.3	31	24	347	110	457	447	372	25	.90	.00	1.3
26	2.7	25	23	561	104	481	553	192	20	1.0	.00	1.1
27	3.1	20	23	552	100	359	472	139	16	1.5	.00	1.1
28	3.2	17	23	556	139	248	256	116	13	2.6	.01	1.0
29	3.0	26	23	488	---	200	166	101	11	3.5	8.7	1.2
30	3.1	107	30	294	---	175	135	91	9.5	3.5	28	1.5
31	3.0	---	34	141	---	157	---	85	---	3.2	33	---
TOTAL	159.9	521.3	1413	6150	4539	8671	5499	27422	2826.5	148.92	93.84	140.4
MEAN	5.16	17.4	45.6	199	162	280	183	885	94.2	4.80	3.03	4.68
MAX	23	107	147	582	396	481	553	3620	426	19	33	26
MIN	2.2	2.9	22	27	98	155	84	85	9.5	.90	.00	1.0
CFSM	.01	.05	.12	.53	.43	.74	.49	2.35	.25	.01	.008	.01
IN.	.02	.05	.14	.61	.45	.86	.54	2.71	.28	.01	.01	.01
AC-FT	317	1030	2800	12220	9000	17200	10910	54390	5610	295	186	278

CAL YR 1977	TOTAL	60797.90	MEAN 167	MAX 1740	MIN 2.2	CFSM .44	IN 6.00	AC-FT 120600				
WTR YR 1978	TOTAL	57594.86	MEAN 158	MAX 3620	MIN .00	CFSM .42	IN 5.68	AC-FT 114200				

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, AR

LOCATION.--Lat 33°22'46", long 92°43'09", in NE¼ sec.35, T.15 S., R.16 W., Union County, Hydrologic Unit 08040201, at bridge on county road, 1.1 mi (1.8 km) north of Smackover.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)
OCT												
24...	9827	9827	2300	6.2	19.0	0	5.9	63	.9	30	--	95
DEC												
19...	9827	9827	1400	6.4	12.0	20	8.5	79	1.1	84	--	--
JAN												
23...	9827	9827	1220	5.6	5.0	10	12.6	98	1.9	20	130	30
FEB												
21...	9827	9827	1130	5.3	4.0	10	12.1	92	2.1	8	--	--
MAR												
20...	9827	9827	895	5.7	16.0	30	8.5	85	1.0	8	--	--
APR												
17...	9827	9827	1260	6.3	19.0	55	6.3	67	1.1	30	140	34
MAY												
15...	9827	9827	279	5.8	21.0	120	3.6	40	1.1	30	--	--
JUN												
12...	9827	9827	655	5.9	25.0	70	6.0	71	1.2	53	--	--
JUL												
17...	9827	9827	1060	7.1	29.0	40	4.9	63	2.1	440	130	34
AUG												
14...	9827	9827	--	6.1	28.0	25	--	78	5.2	27	--	--
SEP												
11...	9827	9827	1380	6.6	25.0	35	5.9	70	2.3	--	--	--

DATE	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ALKA-LINITY (MG/L AS CACO3) (00410)	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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
24...	17	330	6.1	6	.0	710	1300	7	.05	<.05	.05
DEC											
19...	--	--	--	--	5.0	450	834	3	<.05	<.05	<.05
JAN											
23...	12	190	3.9	3	9.0	390	734	--	.33	<.05	.33
FEB											
21...	--	--	--	--	--	350	646	17	.06	<.01	.06
MAR											
20...	--	--	--	--	--	290	555	--	.04	<.01	.05
APR											
17...	11	180	4.1	15	6.0	380	723	15	.05	.01	.06
MAY											
15...	--	--	--	--	4.0	60	--	16	.01	.03	.04
JUN											
12...	--	--	--	--	8.0	210	408	25	.12	.01	.13
JUL											
17...	10	170	4.4	12	<1.0	120	688	17	.04	.01	.05
AUG											
14...	--	--	--	--	<1.0	770	1590	--	.00	.01	.01
SEP											
11...	--	--	--	--	9.0	410	823	22	.05	.01	.06

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
24...	.07	.13	.20	.25	1.1	.02	<10	<5	10	560	10
DEC											
19...	.08	.82	.90	--	--	.05	<10	--	80	700	--
JAN											
23...	.19	.81	1.0	1.3	5.9	.03	<10	<5	110	550	<10
FEB											
21...	.11	.19	.30	.36	1.6	.01	10	--	<20	410	--
MAR											
20...	.08	.62	.70	.75	3.3	.06	<10	--	<20	990	--
APR											
17...	.22	.58	.80	.86	3.8	--	30	<5	<20	2600	30
MAY											
15...	.20	--	--	--	--	.08	<10	--	<20	1500	--
JUN											
12...	.16	1.5	1.7	1.8	8.1	.05	10	--	<20	2600	--
JUL											
17...	.11	.29	.40	.45	2.0	.11	<10	<5	<20	2100	40
AUG											
14...	.05	--	--	--	--	.05	<10	--	30	2200	--
SEP											
11...	.13	.07	.20	.26	1.2	.04	<10	--	<20	1800	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	ODE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
24...	1000	--	20	--	--	--	--	--	--	--	--
DEC											
19...	470	--	50	.00	.00	.00	.00	.00	.00	.00	0
JAN											
23...	980	--	80	--	--	--	--	--	--	--	--
FEB											
21...	980	--	100	--	--	--	--	--	--	--	--
MAR											
20...	1200	--	30	--	--	--	--	--	--	--	--
APR											
17...	1200	--	30	--	--	--	--	--	--	--	--
MAY											
15...	430	--	40	--	--	--	--	--	--	--	--
JUN											
12...	710	--	40	--	--	--	--	--	--	--	--
JUL											
17...	2100	<1.0	30	--	--	--	--	--	--	--	--
AUG											
14...	4400	--	50	--	--	--	--	--	--	--	--
SEP											
11...	970	--	100	--	--	--	--	--	--	--	--

07362400 OUACHITA RIVER AT LOCK AND DAM 8, NEAR CALION, AR

LOCATION.--Lat 33°18'07", long 92°27'42" (revised), in sec.29, T.16 S., R.13 W., Union County, Hydrologic Unit 08040201, at south end on upstream sid , at Lock and Dam 8, 7.0 mi (11.3 km) southeast of Calion.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
24...	9827	9827	232	7.1	20.0	55	6.9	75	1.3	73	42	11
NOV												
30...	9827	9827	638	6.8	7.0	15	9.7	80	2.3	7	--	--
DEC												
19...	9827	9827	915	5.5	14.0	0	7.9	76	.2	<4	--	--
JAN												
23...	9827	9827	222	6.7	4.0	45	11.5	88	2.1	220	29	6.0
FEB												
21...	9827	9827	797	5.1	6.0	0	8.9	71	1.3	<4	--	--
MAR												
20...	9827	9827	131	6.8	13.0	55	9.2	87	1.8	15	--	--
APR												
17...	9827	9827	191	7.0	21.0	35	7.8	87	1.5	10	27	5.8
MAY												
15...	9827	9827	163	6.6	21.0	60	5.9	66	1.3	130	--	--
JUN												
12...	9827	9827	191	6.8	27.0	70	5.7	70	1.4	13	--	--
JUL												
17...	9827	9827	135	7.2	33.0	50	7.3	100	2.4	--	34	9.0
AUG												
14...	9827	9827	--	7.1	--	25	--	--	2.1	30	--	--
SEP												
11...	9827	9827	238	6.8	28.0	25	6.4	81	1.3	--	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
24...	2.7	27	2.2	28	14	42	147	17	.08	<.05	.09
NOV											
30...	--	--	--	--	4.0	180	385	10	.14	.00	.14
DEC											
19...	--	--	--	--	13	300	505	6	.06	<.05	.07
JAN											
23...	3.0	29	2.5	13	9.0	55	164	--	.28	<.05	.29
FEB											
21...	--	--	--	--	--	210	474	39	.01	<.01	.01
MAR											
20...	--	--	--	--	--	22	106	--	.21	.01	.22
APR											
17...	2.2	21	2.1	26	12	33	112	12	.41	.01	.42
MAY											
15...	--	--	--	--	4.0	33	--	15	.13	.03	.16
JUN											
12...	--	--	--	--	9.0	38	141	23	.23	.03	.26
JUL											
17...	2.0	13	1.9	26	5.0	19	94	22	.19	.02	.21
AUG											
14...	--	--	--	--	5.0	23	130	--	.14	.01	.15
SEP											
11...	--	--	--	--	22	51	151	12	.02	.01	.03

07362400 OUACHITA RIVER AT LOCK AND DAM 8, NEAR CALION, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
24...	.18	--	--	--	--	.05	<10	10	10	1500	10
NOV											
30...	.04	--	--	--	--	.05	<10	--	<20	740	--
DEC											
19...	.15	--	--	--	--	.03	--	--	90	1700	--
JAN											
23...	.14	--	--	--	--	.10	<10	<5	80	1300	<10
FEB											
21...	.10	--	--	--	--	.04	<10	--	40	3000	--
MAR											
20...	.13	--	--	--	--	.10	<10	--	<20	2000	--
APR											
17...	.14	--	--	--	--	--	20	20	20	1400	80
MAY											
15...	.33	--	--	--	--	.09	<10	--	40	1200	--
JUN											
12...	.18	.52	.70	.96	4.2	.07	<10	--	20	1600	--
JUL											
17...	.13	--	--	--	--	.13	<10	<5	20	1600	30
AUG											
14...	.15	--	--	--	--	.06	<10	--	30	880	--
SEP											
11...	.12	--	--	--	--	.03	<10	--	<20	1200	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
24...	260	--	20	--	--	--	--	--	--	--	--
NOV											
30...	690	--	30	--	--	--	--	--	--	--	--
DEC											
19...	880	--	70	.00	.00	.00	.00	.00	.00	.00	0
JAN											
23...	280	--	70	--	--	--	--	--	--	--	--
FEB											
21...	910	--	100	--	--	--	--	--	--	--	--
MAR											
20...	130	--	10	--	--	--	--	--	--	--	--
APR											
17...	260	--	60	--	--	--	--	--	--	--	--
MAY											
15...	4900	--	20	--	--	--	--	--	--	--	--
JUN											
12...	270	--	90	--	--	--	--	--	--	--	--
JUL											
17...	380	<1.0	30	--	--	--	--	--	--	--	--
AUG											
14...	160	--	30	--	--	--	--	--	--	--	--
SEP											
11...	230	--	50	--	--	--	--	--	--	--	--

07362500 MORO CREEK NEAR FORDYCE, AR

LOCATION.--Lat 33°47'32", long 92°19'30", in NW¼NW¼ sec.3, T.11 S., R.12 W., Calhoun-Cleveland County line, Hydrologic Unit 08040201, near center of stream on downstream side of bridge on State Highway 8, 1,100 ft (340 m) upstream from Caney Creek, 4.0 mi (6.4 km) southeast of Fordyce, 12.0 mi (19.3 km) upstream from White Water Creek, and at mile 38.2 (61.5 km).

DRAINAGE AREA.--216 mi^2 (559 km^2).

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.63 ft (48.960 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--27 years, 218 ft^3/s (6.17 m^3/s), 13.71 in/yr (348 mm/yr), 157,900 acre-ft/yr (195 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft^3/s (759 m^3/s) May 2, 1958, gage height, 16.47 ft (5.020 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1938 reached a stage of 15.1 ft (4.60 m), from information by State Highway Department, discharge, 15,800 ft^3/s (447 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 532 ft^3/s (15.1 m^3/s) Jan. 31, gage height, 8.45 ft (2.576 m), no peak above base of 2,800 ft^3/s (79 m^3/s); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	.00	23	.20	461	89	72	13	317	1.4	.90	40
2	4.5	.00	13	.17	294	108	62	11	267	1.2	.61	26
3	3.2	.00	6.5	.11	183	134	53	10	110	.99	.45	19
4	2.2	.00	4.4	.07	104	167	47	11	55	.78	.33	13
5	1.6	.00	3.4	.02	73	178	42	14	136	.74	.26	5.7
6	1.3	.00	2.5	.18	54	178	39	15	124	.65	.18	3.1
7	.95	.00	1.6	.20	38	178	35	36	115	.54	.06	2.0
8	1.3	.00	.93	.50	51	174	31	64	107	.41	.00	1.5
9	3.1	.00	.72	1.7	47	157	28	121	659	.26	.00	1.8
10	5.0	.00	.55	2.2	44	145	25	194	903	.14	.00	1.7
11	3.9	.00	.46	2.9	41	229	34	252	674	.06	.00	1.5
12	2.9	.00	.38	4.5	42	265	42	275	543	.00	1.8	1.6
13	2.2	.00	.45	7.2	129	188	46	217	138	.00	1.6	2.4
14	1.6	.00	1.4	5.6	204	201	34	167	54	.00	.86	3.0
15	1.3	.00	2.1	9.4	235	300	27	90	43	.00	.56	2.5
16	1.0	.00	2.2	21	260	371	22	56	32	.00	.38	1.9
17	.88	.00	2.1	110	290	416	16	42	23	.00	.27	1.4
18	12	.00	2.0	131	252	446	15	32	17	.00	1.9	1.9
19	96	.00	1.9	120	176	425	13	24	16	.00	1.5	1.9
20	48	.00	1.7	120	123	309	10	19	13	.00	.79	1.5
21	24	.13	1.4	117	95	188	8.2	15	9.6	.00	2.5	1.2
22	.64	4.0	1.0	111	74	130	6.6	13	8.0	.00	1.7	1.2
23	.36	4.8	.76	86	72	105	5.1	11	6.8	.00	.76	.81
24	.24	3.0	.58	96	55	106	4.7	45	6.6	.00	.43	.92
25	.23	1.9	.47	296	54	126	6.8	100	5.7	6.7	.27	.48
26	.18	1.4	.31	514	52	145	7.6	122	4.7	27	.19	.32
27	.13	1.2	.20	520	47	162	15	114	3.3	18	.08	.35
28	.09	1.1	.13	498	61	169	19	73	2.5	6.7	.01	.28
29	.03	1.4	.12	502	---	147	18	45	1.9	2.7	13	.43
30	.00	19	.14	520	---	113	16	55	1.7	1.5	75	.29
31	.00	---	.19	527	---	88	---	214	---	1.0	49	---
TOTAL	245.33	38.43	76.72	4326.87	3662	6164	796.4	2419	2726.8	70.69	155.39	139.68
MEAN	7.27	1.28	2.47	140	131	199	26.5	78.0	90.9	2.28	5.01	4.66
MAX	96	19	23	527	460	446	72	275	317	27	75	40
MIN	.00	.00	.12	.02	41	88	4.7	10	1.7	.00	.00	.28
CFSM	.03	.006	.01	.65	.61	.92	.12	.36	.42	.01	.02	.02
IN.	.04	.01	.01	.75	.63	1.06	.14	.42	.47	.01	.03	.02
AC-FT	447	76	152	8580	7260	12230	1580	4800	5410	140	308	277

CAL YR 1977 TOTAL 60552.14 MEAN 166 MAX 3010 MIN .00 CFSM .77 IN 10.43 AC-FT 120100
WTR YR 1978 TOTAL 20801.31 MEAN 57.0 MAX 527 MIN .00 CFSM .26 IN 3.58 AC-FT 41260

07362550 MORO CREEK NEAR BANKS, AR

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 (6.4 km) west of Banks.

DRAINAGE AREA.--374 mi^2 (969 km^2).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT									
10...	1028	1028	59	7.1	19.5	--	7.4	83	--
21...	1028	1028	62	6.8	18.5	--	9.4	103	--
24...	9827	9827	77	6.9	19.0	45	6.5	69	3.4
NOV									
21...	1028	1028	113	6.2	13.0	--	10.0	98	--
30...	9827	9827	92	6.7	8.0	40	9.9	83	3.0
DEC									
19...	9827	9827	109	7.4	12.0	50	7.7	71	1.8
20...	1028	1028	105	5.9	9.0	--	9.3	83	--
JAN									
23...	9827	9827	92	6.7	3.0	40	12.3	91	3.5
FEB									
21...	9827	9827	87	6.2	2.0	50	11.7	85	2.3
MAR									
20...	9827	9827	58	6.0	15.0	90	7.2	71	2.1
APR									
17...	9827	9827	107	5.9	17.0	80	6.7	71	1.5
MAY									
15...	9827	9827	96	6.2	20.0	120	5.9	64	2.3
JUN									
12...	9827	9827	68	6.3	24.0	100	5.5	65	.6
14...	1028	1028	93	6.4	21.5	--	6.1	71	--
JUL									
17...	9827	9827	103	7.0	28.0	100	5.5	70	3.5
AUG									
14...	9827	9827	--	7.1	25.0	55	--	57	2.7
SEP									
11...	9827	9827	97	6.8	25.0	90	5.3	63	1.2

DATE	COLIFORM, TOTAL, IMED, (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT									
10...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
24...	9000	630	--	4.0	1.6	8.3	3.3	11	5.0
NOV									
21...	--	--	--	--	--	--	--	--	--
30...	1200	97	--	--	--	--	--	--	6.0
DEC									
19...	740	100	--	--	--	--	--	--	10
20...	--	--	--	--	--	--	--	--	--
JAN									
23...	140	150	11	2.0	1.0	14	3.3	13	9.0
FEB									
21...	47	44	--	--	--	--	--	--	--
MAR									
20...	460	150	--	--	--	--	--	--	--
APR									
17...	140	30	22	4.4	2.1	10	2.4	23	6.0
MAY									
15...	120	5	--	--	--	--	--	--	4.0
JUN									
12...	<20	45	--	--	--	--	--	--	7.0
14...	--	--	--	--	--	--	--	--	--
JUL									
17...	360	--	67	15	4.0	8.6	2.8	37	16
AUG									
14...	500	--	--	--	--	--	--	--	3.0
SEP									
11...	--	--	--	--	--	--	--	--	9.0

07362550 MORO CREEK NEAR BANKS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
24...	12	91	15	.95	<.05	.96	.22	.07
NOV								
21...	--	--	--	--	--	--	--	--
30...	12	78	10	.05	<.05	.06	.05	.07
DEC								
19...	14	101	7	.05	<.05	.06	.12	.07
20...	--	--	--	--	--	--	--	--
JAN								
23...	17	112	--	.20	<.05	.21	.06	.13
FEB								
21...	9.0	85	9	.06	.01	.07	.07	.04
MAR								
20...	6.5	94	--	.02	.01	.03	.04	.08
APR								
17...	13	86	1	.01	.01	.02	.13	--
MAY								
15...	7.0	--	11	.03	.03	.06	.17	.09
JUN								
12...	7.5	87	13	.09	.02	.11	.11	.10
19...	--	--	--	--	--	--	--	--
JUL								
17...	7.5	124	77	.06	.01	.07	.06	.16
AUG								
14...	7.0	95	--	.00	.01	.01	.07	.10
SEP								
11...	10	106	9	.35	.06	.41	.17	.12

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
OCT											
10...	--	--	--	--	--	--	--	--	--	8.6	.6
21...	--	--	--	--	--	--	--	--	--	8.7	1.1
24...	<10	<5	10	760	20	230	--	20	--	--	--
NOV											
21...	--	--	--	--	--	--	--	--	--	11	.7
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	11	.4
JAN											
23...	<10	<5	30	1100	<10	100	--	50	--	--	--
APR											
17...	120	9	80	1000	40	190	--	210	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	23	--	--
JUL											
17...	<10	<5	40	2700	70	4400	<1.0	60	--	--	--

DATE	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
10...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
NOV										
21...	--	--	--	--	--	--	--	--	10	87
DEC										
19...	.00	.00	.00	.00	.00	.00	.00	0	--	--
20...	--	--	--	--	--	--	--	--	--	--
JAN										
23...	--	--	--	--	--	--	--	--	--	--
APR										
17...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
JUL										
17...	--	--	--	--	--	--	--	--	--	--

07363000 SALINE RIVER AT BENTON, AR

LOCATION.--Lat 34°34'05", long 92°36'40", in SE¼NE¼ sec.9, T.2 S., R.15 W., Saline County, Hydrologic Unit 08040203, on left bank 0.8 mi (1.3 km) west of Benton, 3.0 mi (4.8 km) downstream from confluence of North Fork and Alum Fork, and at mile 198.1 (318.7 km).

DRAINAGE AREA.--569 mi² (1,474 km²).

PERIOD OF RECORD.--October 1950 to current year. Gage-height records collected at site 0.4 mi (0.6 km) downstream since July 1938 are contained in reports of National Weather Service.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 260.91 ft (79.525 m) National Geodetic Vertical Datum of 1929. July 6, 1938, to July 29, 1948, and Feb. 14 to Mar. 24, 1950, nonrecording gage; July 30, 1948, to Feb. 13, 1950, and Mar. 25, 1950, to July 13, 1951, water-stage recorder; all at site 0.4 mi (0.6 km) downstream at datum 3.00 ft (0.914 m) lower.

REMARKS.--Records good. Little Rock diverts about 35 ft³/s (0.99 m³/s) from Lake Winona on Alum Fork for municipal use and discharges sewage effluent into Arkansas River. Benton diverts about 3.7 ft³/s (0.105 m³/s) for municipal use just above station. At times low flow is augmented by releases from Lake Norrell.

AVERAGE DISCHARGE.--28 years, 764 ft³/s (21.6 m³/s), 553,500 acre-ft/yr (682 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100,000 ft³/s (2,830 m³/s) Jan. 30, 1969, gage height, 29.68 ft (9.046 m); no flow July 23-25, 27-30, Aug. 11-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of about 32.0 ft (9.75 m), former site and datum (from information by State Highway Department), or about 30.5 ft (9.30 m), present site and datum, discharge, about 110,000 ft³/s (3,120 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,000 ft³/s (963 m³/s) at 1415 hours, Sept. 13, gage height, 22.16 ft (6.754 m), no other peak above base of 14,000 ft³/s (400 m³/s); minimum discharge, 1.8 ft³/s (0.051 m³/s) Aug. 28, gage height, 2.87 ft (0.875 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	48	2870	229	603	592	387	1080	166	53	16	197
2	75	1740	1960	206	517	742	354	2310	371	53	14	130
3	63	2660	1130	186	441	2040	326	2920	412	77	11	133
4	56	923	767	165	390	1570	310	4020	268	103	19	161
5	48	517	691	156	378	1170	283	2300	216	129	16	95
6	41	355	1470	152	407	946	257	1760	250	91	14	69
7	37	279	778	173	421	3230	247	6480	354	71	10	60
8	37	230	566	296	374	4640	233	9350	1740	62	13	53
9	33	200	497	317	335	2390	216	4920	1000	53	7.9	46
10	130	204	415	274	308	1660	210	1980	539	43	7.0	37
11	133	205	343	245	289	1280	206	1310	363	39	10	35
12	89	160	312	273	293	1030	210	1000	284	34	14	36
13	65	144	398	296	1870	1300	207	929	266	31	25	15600
14	57	136	1680	298	1840	5640	182	765	251	26	18	8140
15	46	120	1390	300	1210	2820	162	568	203	27	19	1290
16	41	1480	918	1540	952	1740	152	441	166	27	21	670
17	35	4020	836	5650	784	1290	193	364	151	27	14	409
18	33	1230	881	2370	712	1020	2430	395	141	27	11	286
19	28	685	655	1390	650	835	2340	382	125	27	10	225
20	26	464	526	1000	616	690	1230	334	156	25	9.1	159
21	24	1440	431	757	671	834	762	368	158	23	7.0	141
22	24	1930	362	624	652	924	552	387	161	19	6.6	125
23	23	939	328	552	597	695	3780	373	149	17	6.0	122
24	21	619	302	3930	583	1010	3350	307	126	17	5.4	114
25	20	455	266	7130	551	1240	2310	250	112	18	4.3	98
26	19	357	246	5480	513	965	1450	219	96	14	3.3	89
27	16	300	228	2300	483	778	949	186	84	20	2.7	79
28	16	255	210	1480	501	648	678	161	75	17	2.2	72
29	20	620	196	1110	---	575	541	158	70	12	106	66
30	22	1760	198	892	---	502	649	171	59	15	688	61
31	25	---	227	728	---	440	---	155	---	17	338	---
TOTAL	1390	24475	22277	40499	17941	45236	25156	46343	8512	1214	1448.5	28798
MEAN	44.8	816	719	1306	641	1459	839	1495	284	39.2	46.7	960
MAX	133	4020	2870	7130	1870	5640	3780	9350	1740	129	688	15600
MIN	16	48	196	152	289	440	152	155	59	12	2.2	35
AC-FT	2760	48550	44190	80330	35590	89730	49900	91920	16880	2410	2870	57120

CAL YR 1977 TOTAL 218464.0 MEAN 599 MAX 20400 MIN 12 AC-FT 433300
WTR YR 1978 TOTAL 263289.5 MEAN 721 MAX 15600 MIN 2.2 AC-FT 522200

07363002 SALINE RIVER WEST OF BENTON, AR

LOCATION.--Lat 34°33'46", long 92°36'55", in sec.9, T.2 S., R.15 W., Saline County, Hydrologic Unit 08040203, at bridge on Old U.S. Highway 67, 3.4 mi (5.5 km) downstream from confluence of North Fork and Alum Fork, and at mile 197.7 (318.1 km).

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
19...	9827	9827	139	7.4	18.0	15	9.1	96	1.4	73	--
NOV											
16...	9827	9827	121	7.7	16.0	30	9.2	92	2.4	1300	--
DEC											
14...	9827	9827	107	--	12.0	40	10.6	98	1.6	490	--
FEB											
15...	9827	9827	93	7.2	7.0	--	12.5	102	2.5	150	--
MAR											
15...	9827	9827	64	7.1	14.0	55	10.5	101	1.3	350	--
20...	9827	9827	93	7.3	15.0	10	11.2	110	2.2	560	--
APR											
18...	9827	9827	124	7.3	18.0	70	7.5	79	3.0	2800	41
MAY											
16...	9827	9827	104	7.1	20.0	15	8.2	89	.6	50	--
JUN											
13...	9827	9827	119	7.3	22.0	30	7.0	80	.4	350	--
JUL											
18...	9827	9827	137	7.9	29.0	10	6.3	81	.9	23	69
AUG											
14...	9827	9827	--	7.7	29.0	5	--	105	1.7	8	--
SEP											
12...	9827	9827	136	7.2	26.0	10	6.6	80	.7	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
19...	22	4.4	2.4	1.4	55	6.0	4.5	83	14	<.05
NOV										
16...	--	--	--	--	--	6.0	5.0	84	12	.09
DEC										
14...	--	--	--	--	--	8.0	5.0	78	20	.08
FEB										
15...	--	--	--	--	--	7.0	5.5	79	29	.18
MAR										
15...	--	--	--	--	--	11	3.5	49	29	.10
20...	--	--	--	--	--	--	4.5	66	--	.09
APR										
18...	7.2	4.3	2.9	1.7	49	6.0	6.0	89	70	.04
MAY										
16...	--	--	--	--	--	1.0	4.5	--	5	.09
JUN										
13...	--	--	--	--	--	7.0	4.5	83	10	.08
JUL										
18...	19	5.0	3.1	1.2	66	1.0	6.5	91	9	--
AUG										
14...	--	--	--	--	--	1.0	5.0	84	--	.00
SEP										
12...	--	--	--	--	--	6.0	5.5	87	11	.08

07363002 SALINE RIVER WEST OF BENTON, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
19...	<.05	<.05	<.05	--	<10	<5	90	900	--	61
NOV										
16...	<.05	.10	.10	.11	<10	--	160	2400	--	170
DEC										
14...	<.05	.09	.11	.08	--	--	120	1100	--	71
FEB										
15...	.01	.19	.07	.09	<10	--	580	100	--	16
MAR										
15...	.01	.11	.08	.03	<10	--	200	1400	--	35
20...	<.01	.09	.06	.05	<10	--	<20	580	--	330
APR										
18...	.03	.07	.13	--	<10	20	20	2900	60	140
MAY										
16...	.03	.12	.21	.05	<10	--	20	1200	--	83
JUN										
13...	.01	.09	.09	.03	<10	--	20	470	--	56
JUL										
18...	.01	--	.08	.11	10	<5	20	460	30	120
AUG										
14...	.01	.01	.08	.09	<10	--	20	460	--	110
SEP										
12...	.01	.09	.12	.02	<10	--	<20	570	--	340

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
19...	--	80	--	--	--	--	--	--	--	--
NOV										
16...	--	150	--	--	--	--	--	--	--	--
DEC										
14...	--	140	.00	.00	.00	.00	.00	.00	.00	0
FEB										
15...	--	780	--	--	--	--	--	--	--	--
MAR										
15...	--	100	--	--	--	--	--	--	--	--
20...	--	30	--	--	--	--	--	--	--	--
APR										
18...	--	20	--	--	--	--	--	--	--	--
MAY										
16...	--	10	--	--	--	--	--	--	--	--
JUN										
13...	--	50	--	--	--	--	--	--	--	--
JUL										
18...	<1.0	30	--	--	--	--	--	--	--	--
AUG										
14...	--	20	--	--	--	--	--	--	--	--
SEP										
12...	--	50	--	--	--	--	--	--	--	--

07363200 SALINE RIVER NEAR SHERIDAN, AR

LOCATION.--Lat 34°06'56", long 92°24'21", in NE¼NW¼ sec.15, T.7 S., R.13 W., Grant County, Hydrologic Unit 08040203, on downstream side of bridge on U.S. Highway 167, 1.0 mi (1.6 km) upstream from Gamble Creek, 1.6 mi (2.6 km) upstream from Hurricane Creek, 13.5 mi (21.7 km) south of Sheridan, and at mile 131.4 (211.4 km).

DRAINAGE AREA.--1,129 mi^2 (2,924 km^2).

PERIOD OF RECORD.--October 1970 to current year. Gage-height records since September 1938 are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 152.86 ft (46.592 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years, 1,643 ft^3/s (46.5 m^3/s), 19.77 in/yr (502 mm/yr), 1,190,000 acre-ft/yr (1,467 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,600 ft^3/s (1,690 m^3/s) June 10, 1974, gage height, 21.36 ft (6.511 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Aug. 26-28, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1938, 22.42 ft (6.834 m) Feb. 1, 1969, from records of Corps of Engineers, discharge, 71,000 ft^3/s (2,010 m^3/s) computed by Geological Survey.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft^3/s (362 m^3/s) May 11, gage height, 16.05 ft (4.892 m), no peak above base of 14,000 ft^3/s (400 m^3/s); minimum daily, 10 ft^3/s (0.28 m^3/s) Aug. 26-28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	150	1370	337	5120	900	910	1150	389	128	45	341
2	90	350	1820	340	4140	973	818	1540	362	122	35	462
3	88	630	2070	344	2870	1140	742	2170	367	113	30	339
4	100	990	2320	325	1790	1480	684	2790	516	107	30	252
5	94	1100	2520	307	1360	1970	637	3400	640	122	30	203
6	81	1200	2420	287	1140	2340	594	3950	579	136	25	208
7	71	780	1750	282	1020	2440	553	5050	652	164	25	192
8	69	494	1500	298	973	2280	516	6700	934	165	25	146
9	64	374	1260	370	950	2420	481	6160	1070	134	20	121
10	61	312	923	584	898	2870	448	7150	1480	117	25	105
11	57	284	758	644	840	3740	423	11300	1530	106	25	96
12	53	257	665	606	804	4860	411	11700	1060	92	30	88
13	102	250	581	541	994	4950	429	8420	694	81	35	88
14	129	234	524	540	1330	4400	423	6000	545	74	35	287
15	106	206	580	570	1910	3760	403	4820	493	71	30	1370
16	86	185	1100	638	2400	3590	375	3740	450	82	25	2270
17	73	269	1460	1030	2730	4160	352	2130	384	72	25	7850
18	65	873	1320	1790	2660	5690	324	1270	327	63	25	8200
19	60	1580	1080	2370	2020	5660	412	943	292	59	20	5510
20	54	1760	1010	2980	1530	4620	1300	838	269	56	20	3920
21	50	1500	896	4000	1300	3230	1870	806	265	53	20	1830
22	45	971	745	4840	1190	1900	2000	1030	257	51	20	763
23	40	1130	635	4380	1150	1480	1630	1120	244	53	15	412
24	40	1600	558	3560	1120	1470	1210	1260	241	54	15	326
25	35	1570	495	3150	1040	1480	1710	1040	228	53	15	312
26	35	1110	449	3630	971	1650	2250	774	207	49	10	284
27	30	721	410	4680	918	1810	2800	606	188	57	10	254
28	30	548	378	9030	888	1720	3410	498	172	54	10	225
29	30	507	358	10800	---	1440	3320	445	156	51	57	200
30	35	766	339	8900	---	1190	2000	441	141	46	93	182
31	50	---	332	6560	---	1030	---	424	---	47	133	---
TOTAL	2022	22701	32626	78713	46056	82643	33435	99665	15132	2632	958	36836
MEAN	65.2	757	1052	2539	1645	2666	1115	3215	504	84.9	30.9	1228
MAX	129	1760	2520	10800	5120	5690	3410	11700	1530	165	133	8200
MIN	30	150	332	282	804	900	324	424	141	46	10	88
CFSM	.06	.67	.93	2.25	1.46	2.36	.99	2.85	.45	.08	.03	1.09
IN.	.07	.75	1.08	2.59	1.52	2.72	1.10	3.28	.50	.09	.03	1.21
AC-FT	4010	45030	64710	156100	91350	163900	66320	197700	30010	5220	1900	73060

CAL YR 1977	TOTAL	388722	MEAN	1065	MAX	15800	MIN 30	CFSM	.94	IN 12.81	AC-FT	771000
WTR YR 1978	TOTAL	453419	MEAN	1242	MAX	11700	MIN 10	CFSM	1.10	IN 14.94	AC-FT	899400

07363270 HURRICANE CREEK NEAR SARDIS, AR

LOCATION.--Lat 34°30'40", long 92°24'54", in SW¼ sec.28, T.2 S., R.13 W., Saline County, Hydrologic Unit 08040203, at crossing on county road, 200 ft (61 m) downstream from Brushy Creek, 1.5 mi (2.4 km) southwest of Sardis.

PERIOD OF RECORD.--April 1974 to September 1976, October 1977 to September 1978.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
25...	9827	9827	872	6.6	18.0	5	7.3	77	1.1	67	--	12
DEC												
01...	9827	9827	148	7.4	9.0	60	10.1	87	2.2	1400	--	--
20...	9827	9827	322	7.1	9.0	5	10.9	94	1.2	40	--	--
JAN												
24...	9827	9827	153	6.6	4.0	20	12.2	93	3.7	200	22	3.0
FEB												
22...	9827	9827	241	7.2	2.0	5	13.1	95	3.2	4	--	--
MAR												
20...	9827	9827	374	7.0	15.0	0	9.7	95	1.5	15	--	--
APR												
17...	9827	9827	234	7.0	19.0	5	8.6	91	.7	8	150	42
MAY												
15...	9827	9827	506	7.6	20.0	10	7.8	85	1.0	100	--	--
JUN												
12...	9827	9827	387	7.2	25.0	15	8.1	96	1.5	80	--	--
JUL												
17...	9827	9827	620	7.8	25.0	5	8.8	105	1.8	83	230	73
AUG												
14...	9827	9827	--	7.6	24.0	0	--	96	--	140	--	--
SEP												
11...	9827	9827	956	5.6	25.0	0	7.5	89	.5	--	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
25...	7.4	30	2.8	13	97	5.5	665	5	.08	<.05	.09
DEC											
01...	--	--	--	--	25	6.5	110	80	.17	<.05	.18
20...	--	--	--	--	100	8.0	205	18	.06	<.05	.22
JAN											
24...	3.0	13	2.2	19	43	7.0	109	--	.27	<.05	.28
FEB											
22...	--	--	--	--	--	6.5	153	23	.14	.01	.15
MAR											
20...	--	--	--	--	--	7.0	242	--	.14	<.01	.14
APR											
17...	8.7	39	2.3	35	--	9.5	548	4	.20	.01	.21
MAY											
15...	--	--	--	--	100	6.5	--	38	.17	.03	.20
JUN											
12...	--	--	--	--	130	7.0	256	26	.13	.01	.14
JUL											
17...	12	33	2.4	38	96	9.5	425	4	.19	.01	.20
AUG											
14...	--	--	--	--	2.0	6.0	649	--	.13	.01	.14
SEP											
11...	--	--	--	--	450	10	757	12	.15	.01	.16

07363270 HURRICANE CREEK NEAR SARDIS, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
25...	.08	.02	.10	.19	.80	.02	20	<5	<10	400	<10
DEC											
01...	.13	1.4	1.5	1.7	7.4	.13	<10	--	<20	2900	--
20...	.12	.58	.70	.92	4.1	.05	--	--	40	1300	--
JAN											
24...	.13	1.4	1.5	1.8	7.9	.21	<10	20	<20	5000	20
FEB											
22...	.10	.10	.20	.35	1.5	.04	<10	--	<20	1200	--
MAR											
20...	.12	.68	.80	.94	4.2	.06	<10	--	<20	1900	--
APR											
17...	.23	.37	.60	.81	3.6	--	50	<5	<20	610	30
MAY											
15...	.21	--	--	--	--	.08	<10	--	20	1100	--
JUN											
12...	.13	.97	1.1	1.2	5.5	.03	10	--	<20	690	--
JUL											
17...	.06	--	<.10	--	--	.09	<10	<5	<20	80	10
AUG											
14...	.03	--	--	--	--	.01	<10	--	<20	200	--
SEP											
11...	.06	--	<.01	--	--	.01	<10	--	<20	180	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
25...	2000	--	40	--	--	--	--	--	--	--	--
DEC											
01...	320	--	20	--	--	--	--	--	--	--	--
20...	1000	--	40	.00	.00	.00	.00	.00	.00	.00	0
JAN											
24...	480	--	50	--	--	--	--	--	--	--	--
FEB											
22...	680	--	30	--	--	--	--	--	--	--	--
MAR											
20...	1600	--	40	--	--	--	--	--	--	--	--
APR											
17...	1800	--	290	--	--	--	--	--	--	--	--
MAY											
15...	710	--	20	--	--	--	--	--	--	--	--
JUN											
12...	1100	--	30	--	--	--	--	--	--	--	--
JUL											
17...	780	<1.0	<10	--	--	--	--	--	--	--	--
AUG											
14...	160	--	<10	--	--	--	--	--	--	--	--
SEP											
11...	2100	--	290	--	--	--	--	--	--	--	--

07363300 HURRICANE CREEK NEAR SHERIDAN, AR

LOCATION.--Lat 34°19'10", long 92°20'40", in NW¼NE¼ sec.6, T.5 S., R.12 W., Grant County, Hydrologic Unit 08040203, on downstream side of bridge on U.S. Highway 270, 2.8 mi (4.5 km) downstream from Simpson Creek, 3.5 mi (5.6 km) east of Sheridan, and at mile 16.9 (27.2 km).

DRAINAGE AREA.--204 mi² (528 km²).

PERIOD OF RECORD.--Occasional low-flow measurements 1957-61. October 1961 to current year. Gage-height records and results of discharge measurements 1960-63 are published in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1970: 1969.

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft (60.960 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good except those below 2.0 ft³/s (0.057 m³/s), which are poor.

AVERAGE DISCHARGE.--17 years, 220 ft³/s (6.23 m³/s), 14.65 in/yr (372 mm/yr), 159,400 acre-ft/yr (196 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft³/s (513 m³/s) Apr. 24, 1964, gage height, 15.93 ft (4.855 m); no flow at times in 1972, 1976, 1977, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1939, 18.55 ft (5.654 m) June 27, 1960, from floodmarks, discharge, 52,300 ft³/s (1,480 m³/s) by contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft³/s (297 m³/s) Sept. 14 at 2000 hours; gage height, 15.54 ft (4.737 m), no other peak above base of 5,000 ft³/s (140 m³/s); no flow July 24-28, Aug. 1-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	16	349	40	230	219	103	144	35	5.4	.00	22
2	10	19	423	38	205	209	93	352	32	4.4	.00	11
3	9.0	30	407	39	187	350	84	354	35	3.3	.00	7.8
4	6.7	33	252	33	173	448	76	482	32	5.4	.56	5.9
5	5.7	28	139	29	165	304	71	531	25	6.6	1.4	14
6	4.9	24	104	29	157	222	72	422	31	2.6	1.3	13
7	5.1	21	91	31	156	269	70	701	118	1.7	.65	7.7
8	8.4	18	72	48	148	532	66	2230	113	1.6	.42	4.1
9	9.8	18	59	217	164	615	59	2420	103	1.7	.89	3.3
10	10	24	66	197	159	392	55	2370	91	1.3	1.6	3.4
11	11	26	68	103	191	298	52	1250	55	1.6	3.4	4.2
12	10	29	59	81	202	245	63	509	36	1.6	5.0	8.5
13	9.1	27	57	88	377	216	61	291	36	1.6	5.1	19
14	6.6	26	62	101	873	460	50	276	61	1.4	5.8	4010
15	8.0	26	119	102	809	1210	43	196	36	1.2	7.2	4420
16	9.2	30	107	134	398	1150	39	128	22	1.4	8.9	1300
17	8.8	62	85	437	290	588	37	99	15	1.2	9.3	659
18	7.7	83	87	665	254	302	34	89	12	1.2	8.5	366
19	6.3	49	90	678	233	235	150	85	11	1.1	7.0	172
20	6.9	36	73	577	225	199	183	77	9.8	1.1	5.0	106
21	7.1	36	65	264	224	175	87	72	8.6	.81	3.5	74
22	8.1	92	57	181	217	196	57	98	6.9	.46	2.8	96
23	9.3	187	47	151	193	213	66	123	6.0	.06	2.6	163
24	10	117	39	290	190	200	205	113	5.3	.00	2.4	88
25	11	73	37	1130	180	297	260	77	10	.00	2.2	64
26	11	55	35	1800	170	302	169	58	11	.00	2.1	53
27	11	49	35	1990	160	224	119	48	8.8	.00	1.8	46
28	12	37	31	1350	172	176	86	43	6.4	.00	1.4	42
29	13	57	29	923	---	148	68	42	5.9	1.5	6.3	34
30	14	273	30	388	---	129	58	43	4.1	1.3	21	34
31	14	---	36	265	---	116	---	38	---	.30	55	---
TOTAL	283.7	1601	3250	12399	7102	10639	2636	13761	981.8	51.83	173.12	11850.9
MEAN	9.15	53.4	105	400	254	343	87.9	444	32.7	1.67	5.58	395
MAX	14	273	423	1990	873	1210	260	2420	118	6.6	55	4420
MIN	4.9	16	29	29	148	116	34	38	4.1	.00	.00	3.3
CFSM	.05	.26	.52	1.96	1.25	1.68	.43	2.18	.16	.008	.03	1.94
IN.	.05	.29	.59	2.26	1.30	1.94	.48	2.51	.18	.01	.03	2.16
AC-FT	563	3180	6450	24590	14090	21100	5230	27290	1950	103	343	23510

CAL YR 1977	TOTAL	37026.08	MEAN	101	MAX	1380	MIN	.59	CFSM	.50	IN	6.75	AC-FT	73440
WTR YR 1978	TOTAL	64729.35	MEAN	177	MAX	4420	MIN	.00	CFSM	.87	IN	11.80	AC-FT	128400

07363500 SALINE RIVER NEAR RYE, AR

LOCATION.--Lat 33°42'03", long 92°01'33", in SW¼NW¼ sec.3, T.12 S., R.9 W., Bradley County, Hydrologic Unit 08040204, near left bank on downstream side of bridge on State Highway 15, 3.6 mi (5.8 km) southwest of Rye, 5.8 mi (9.3 km) upstream from Hudgin Creek, and at mile 71.0 (114.2 km).

DRAINAGE AREA.--2,062 mi² (5,340 km²).

PERIOD OF RECORD.--August 1937 to current year.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 97.06 ft (29.584 m) National Geodetic Vertical Datum of 1929. Prior to May 30, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--41 years, 2,539 ft³/s (71.9 m³/s), 16.72 in/yr (425 mm/yr), 1,840,000 acre-ft/yr (2,270 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,500 ft³/s (2,110 m³/s) May 18, 1968, gage height, 31.40 ft (9.571 m); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 27, 28, 1954, gage height, 3.84 ft (1.170 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of 30.5 ft (9.30 m), discharge, about 73,000 ft³/s (2,070 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,240 ft³/s (262 m³/s) May 18, gage height, 21.15 ft (6.447 m), no peak above base of 10,000 ft³/s (280 m³/s); minimum, 14 ft³/s (0.40 m³/s) Aug. 27, 28, 29, gage height 4.32 ft (1.317 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	33	761	381	5510	1410	1710	2740	1140	225	69	92
2	107	48	1010	364	6320	1390	1410	2730	1080	221	61	145
3	117	41	1430	362	7010	1560	1200	2280	851	206	54	311
4	115	30	1740	369	7460	1670	1050	2130	705	187	53	468
5	109	29	1930	376	7580	1760	950	2500	653	180	53	392
6	115	207	2060	363	7350	1990	864	2900	740	168	49	298
7	121	962	2170	349	6650	2330	776	3770	854	168	45	238
8	127	1290	2280	342	5100	2730	719	4750	864	187	43	217
9	120	1080	2280	334	2780	2890	658	4770	1130	204	40	214
10	102	699	2060	327	1620	2960	618	4840	1410	219	41	188
11	91	503	1660	406	1340	2990	611	5030	1550	199	45	154
12	83	412	1210	649	1230	3020	587	5360	1720	174	44	139
13	75	368	933	768	1410	3130	541	5870	1740	158	54	122
14	71	339	788	771	1680	3340	514	6620	1410	140	50	115
15	74	321	680	680	1800	3650	517	7480	975	127	36	110
16	127	311	614	674	2070	3970	511	8300	740	122	33	287
17	132	288	714	841	2360	4280	486	8940	663	103	30	1100
18	114	266	1100	989	2600	4440	486	9210	609	98	25	1680
19	97	303	1400	1290	2780	4440	435	8980	541	103	22	2230
20	84	824	1430	1730	2920	4350	383	8290	470	94	24	2830
21	73	1390	1270	2100	2960	4330	522	6940	421	83	23	3500
22	67	1670	1150	2400	2740	4450	1170	4300	396	80	25	4200
23	61	1670	1030	2660	2220	4620	1630	2100	382	76	26	4710
24	55	1380	865	3030	1780	4690	1870	1820	361	73	22	4800
25	53	1360	726	3970	1570	4430	1860	2020	338	69	19	3740
26	48	1600	629	4840	1460	3610	1600	1900	326	82	16	1450
27	42	1720	554	5070	1360	2660	1700	1560	314	98	14	647
28	42	1430	497	5100	1340	2280	2020	1170	288	88	14	500
29	39	1110	461	5010	---	2270	2310	894	270	82	33	415
30	34	838	428	4880	---	2250	2560	778	238	79	63	361
31	30	---	403	4990	---	2050	---	900	---	74	95	---
TOTAL	2631	22522	36263	56435	93000	95940	32268	131872	23179	4167	1221	35653
MEAN	84.9	751	1170	1820	3321	3095	1076	4254	773	134	39.4	1188
MAX	132	1720	2280	5100	7580	4690	2560	9210	1740	225	95	4800
MIN	30	29	403	327	1230	1390	383	778	238	69	14	92
CFSM	.04	.36	.57	.88	1.61	1.50	.52	2.06	.38	.07	.02	.58
IN.	.05	.41	.65	1.02	1.68	1.73	.58	2.38	.42	.08	.02	.64
AC-FT	5220	44670	71930	111900	184500	190300	64000	261600	45980	8270	2420	70720

CAL YR 1977 TOTAL 594521 MEAN 1629 MAX 13800 MIN 29 CFSM .79 IN 10.73 AC-FT 1179000
WTR YR 1978 TOTAL 535151 MEAN 1466 MAX 9210 MIN 14 CFSM .71 IN 9.65 AC-FT 1061000

07364012 SALINE RIVER NEAR FOUNTAIN HILL, AR

LOCATION.--Lat 33°22'42", long 91°57'35", in sec.30 T.15 S., R.8 W., Ashley County, Hydrologic Unit 08040204, at bridge on State Highway 160, 8.0 mi (12.9 km) west of Fountain Hill.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
11...	9827	9827	533	7.9	21.0	45	8.4	93	.9	30	110
NOV											
07...	9827	9827	315	6.7	22.0	40	7.8	89	.9	10	--
DEC											
05...	9827	9827	174	6.7	13.0	50	10.0	94	1.8	260	--
JAN											
09...	9827	9827	345	7.2	6.0	25	11.3	90	1.3	720	48
FEB											
06...	9827	9827	64	6.7	3.0	60	12.8	95	3.2	53	--
MAR											
06...	9827	9827	104	7.1	7.0	10	11.6	95	1.9	270	--
APR											
03...	9827	9827	109	7.2	21.0	40	8.4	93	1.4	4	25
MAY											
01...	9827	9827	153	7.1	25.0	60	6.9	82	.9	3000	--
30...	9827	9827	109	6.9	29.0	70	5.8	74	1.4	31	--
JUN											
26...	9827	9827	215	7.2	22.0	100	7.0	80	1.6	85	--
JUL											
31...	9827	9827	228	7.6	33.0	30	5.7	78	.6	65	44
AUG											
28...	9827	9827	185	7.1	29.0	50	6.2	79	1.1	330	--
SEP											
25...	9827	9827	111	6.9	26.0	90	5.6	68	1.4	40	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
11...	30	7.0	60	4.6	79	29	110	321	30	.60
NOV										
07...	--	--	--	--	--	22	64	170	17	.65
DEC										
05...	--	--	--	--	--	11	29	124	66	.21
JAN										
09...	13	3.5	43	2.6	24	--	73	212	8	.41
FEB										
06...	--	--	--	--	--	11	5.0	70	18	.07
MAR										
06...	--	--	--	--	--	4.0	19	74	20	.16
APR										
03...	4.7	2.6	5.4	1.6	24	16	6.5	104	17	.08
MAY										
01...	--	--	--	--	--	8.0	27	118	21	.16
30...	--	--	--	--	--	19	7.5	98	19	.20
JUN										
26...	--	--	--	--	--	13	38	145	--	.06
JUL										
31...	12	3.0	27	3.2	25	7.0	48	141	19	.19
AUG										
28...	--	--	--	--	--	7.0	31	114	17	.25
SEP										
25...	--	--	--	--	--	21	5.0	97	19	.06

07364012 SALINE RIVER NEAR FOUNTAIN HILL, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
11...	<.05	.61	.06	.13	10	<5	20	2000	10	130
NOV										
07...	<.05	.65	.19	.05	<10	--	<10	920	--	130
DEC										
05...	<.05	.22	.09	.14	<10	--	<20	2700	--	190
JAN										
09...	<.05	.42	.06	.05	<10	<5	<20	590	<10	160
FEB										
06...	.01	.08	.04	.06	<10	--	20	880	--	330
MAR										
06...	.01	.17	.08	--	<10	--	<20	680	--	75
APR										
03...	.02	.10	.08	.08	10	8	30	1100	<10	260
MAY										
01...	.01	.17	.09	.07	<10	--	<20	1300	--	170
30...	.02	.22	.12	.09	<10	--	20	1600	--	420
JUN										
26...	.02	.08	.08	.07	<10	--	<20	1700	--	300
JUL										
31...	.03	.22	.16	.11	<10	--	<20	890	50	160
AUG										
28...	.03	.28	.09	.09	<10	10	<20	1100	--	150
SEP										
25...	<.01	.06	.08	.09	<10	--	<20	920	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
11...	--	10	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	380	--	--	--	--	--	--	--	--
DEC										
05...	--	50	--	--	--	--	--	--	--	--
JAN										
09...	--	30	--	--	--	--	--	--	--	--
FEB										
06...	--	30	--	--	--	--	--	--	--	--
MAR										
06...	--	30	.00	.00	.00	.00	.00	.00	.00	0
APR										
03...	--	60	--	--	--	--	--	--	--	--
MAY										
01...	--	<10	--	--	--	--	--	--	--	--
30...	--	60	--	--	--	--	--	--	--	--
JUN										
26...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
JUL										
31...	<1.0	30	.00	--	.00	.00	.00	.00	.00	0
AUG										
28...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
25...	--	<10	.00	.00	.00	.00	.00	.00	.00	0

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR

LOCATION.--Lat 33°01'55", long 92°05'15", in NE¼ sec.25, T.19 S., R.10 W., Union County, Hydrologic Unit 08040202, at Corps of Engineers Lock No. 6, 4.0 mi (6.4 km) southeast of Felsenthal.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1949 to September 1977.
WATER TEMPERATURES: October 1949 to September 1977.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)
OCT												
11...	9827	9827	524	7.8	20.0	45	8.3	90	1.0	23	110	30
NOV												
07...	9827	9827	317	6.6	22.0	30	8.4	95	1.5	12	--	--
DEC												
05...	9827	9827	177	6.5	13.0	50	9.8	92	1.6	130	--	--
JAN												
09...	9827	9827	356	7.3	8.0	25	11.4	96	1.5	640	49	13
FEB												
06...	9827	9827	57	6.6	2.0	60	12.7	92	--	12	--	--
MAR												
06...	9827	9827	106	7.1	8.0	10	11.3	95	1.6	270	--	--
APR												
04...	9827	9827	174	6.9	18.0	50	8.3	87	1.1	10	24	4.7
MAY												
01...	9827	9827	165	6.9	23.0	60	6.8	78	.2	500	--	--
30...	9827	9827	103	7.0	29.0	70	5.2	67	.8	7	--	--
JUN												
26...	9827	9827	223	7.1	33.0	100	7.2	99	1.7	60	--	--
JUL												
31...	9827	9827	231	7.1	33.0	40	5.9	81	.2	33	44	12
AUG												
28...	9827	9827	187	7.2	29.0	50	6.3	81	1.7	320	--	--
SEP												
25...	9827	9827	114	7.0	26.0	--	6.2	76	2.0	150	--	--

DATE	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT											
11...	7.0	59	5.8	76	28	120	310	26	.57	<.05	.58
NOV											
07...	--	--	--	--	22	63	160	18	.64	<.05	.65
DEC											
05...	--	--	--	--	12	30	123	60	.22	<.05	.23
JAN											
09...	3.6	42	2.6	24	--	73	207	8	.41	<.05	.42
FEB											
06...	--	--	--	--	15	4.5	79	16	.08	.01	.09
MAR											
06...	--	--	--	--	5.0	18	80	40	.16	.01	.17
APR											
04...	2.2	17	1.9	19	12	29	143	23	.18	.02	.20
MAY											
01...	--	--	--	--	10	28	120	24	.16	.01	.17
30...	--	--	--	--	20	5.0	97	17	.21	.02	.23
JUN											
26...	--	--	--	--	12	41	156	--	.36	.02	.38
JUL											
31...	3.0	27	1.7	24	7.0	47	143	14	.19	.04	.23
AUG											
28...	--	--	--	--	7.0	30	116	19	.24	.03	.27
SEP											
25...	--	--	--	--	13	13	92	28	.14	.01	.15

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT											
11...	<.05	--	.90	1.5	6.6	.12	<10	6	20	1800	<10
NOV											
07...	.20	.40	.60	1.3	5.5	.06	<10	--	<10	740	--
DEC											
05...	.09	1.1	1.2	1.4	6.3	.13	<10	--	<20	2800	--
JAN											
09...	<.05	--	1.1	1.5	6.7	.06	<10	<5	<20	730	10
FEB											
06...	.05	.55	.60	.69	3.1	.08	<10	--	<20	1100	--
MAR											
06...	.07	.63	.70	.87	3.9	--	<10	--	<20	810	--
APR											
04...	.14	.26	.40	.60	2.7	.08	10	60	30	10	<10
MAY											
01...	.08	.42	.50	.67	3.0	.08	<10	--	<20	1300	--
30...	.15	--	--	--	--	.08	<10	--	<20	1600	--
JUN											
26...	.12	--	.10	.48	2.1	.07	<10	--	<20	1600	--
JUL											
31...	.09	.31	.40	.63	2.8	.13	<10	--	<20	1000	<10
AUG											
28...	.09	.91	1.0	1.3	5.6	.10	<10	10	<20	1200	--
SEP											
25...	.07	1.1	1.2	1.3	6.0	.10	<10	--	20	860	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT											
11...	130	--	<10	--	--	--	--	--	--	--	--
NOV											
07...	190	--	120	--	--	--	--	--	--	--	--
DEC											
05...	190	--	70	.00	.00	.00	.00	.00	.00	.00	0
JAN											
09...	130	--	20	--	--	--	--	--	--	--	--
FEB											
06...	92	--	20	--	--	--	--	--	--	--	--
MAR											
06...	92	--	20	--	--	--	--	--	--	--	--
APR											
04...	210	--	60	--	--	--	--	--	--	--	--
MAY											
01...	150	--	<10	--	--	--	--	--	--	--	--
30...	410	--	60	--	--	--	--	--	--	--	--
JUN											
26...	290	--	<10	--	--	--	--	--	--	--	--
JUL											
31...	170	<1.0	20	--	--	--	--	--	--	--	--
AUG											
28...	160	--	<10	--	--	--	--	--	--	--	--
SEP											
25...	--	--	30	--	--	--	--	--	--	--	--

07364088 COFFEE CREEK NEAR CROSSETT, AR

LOCATION.--Lat 33°06'18", long 92°02'05", in sec.33 T.18 S., R.9 W., Ashley County, Hydrologic Unit 08040202, below mill pond, at bridge on county road, 2.5 mi (4.0 km) southwest of Crossett.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
11...	9827	9827	1820	7.6	21.0	1000	.0	0	40	--	170
NOV											
07...	9827	9827	1990	7.4	24.0	1000	.0	0	31	27000	--
DEC											
05...	9827	9827	1740	7.7	18.0	800	.0	0	56	54000	--
JAN											
09...	9827	9827	1730	7.7	13.0	1000	.0	0	52	270000	180
FEB											
06...	9827	9827	1750	7.3	12.0	700	.0	0	55	240000	--
MAR											
06...	9827	9827	1810	7.4	15.0	1000	1.0	10	64	44000	--
APR											
04...	9827	9827	1830	7.2	23.0	1000	.0	0	--	50000	160
MAY											
01...	9827	9827	1800	7.3	28.0	500	.0	0	24	100000	--
30...	9827	9827	1680	7.4	34.0	1000	.0	0	30	34000	--
JUN											
26...	9827	9827	1910	7.7	35.0	1000	.0	0	31	10000	--
JUL											
31...	9827	9827	1810	7.7	33.0	500	.0	0	15	10000	210
AUG											
28...	9827	9827	1830	7.6	31.0	1000	.0	0	22	1800	--
SEP											
25...	9827	9827	1750	7.4	29.0	1000	.0	0	28	39000	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)
OCT											
11...	52	7.0	150	14	180	95	370	1290	42	<.05	.06
NOV											
07...	--	--	--	--	--	400	420	1320	55	<.05	.06
DEC											
05...	--	--	--	--	--	180	310	1200	71	<.05	.05
JAN											
09...	60	6.5	300	12	220	--	300	1300	64	<.05	<.05
FEB											
06...	--	--	--	--	--	98	310	1240	75	--	.04
MAR											
06...	--	--	--	--	--	100	350	1360	56	<.01	.06
APR											
04...	50	7.0	320	14	200	180	360	1250	68	--	.06
MAY											
01...	--	--	--	--	--	98	400	1210	40	.04	.01
30...	--	--	--	--	--	100	360	1120	43	.08	.07
JUN											
26...	--	--	--	--	--	85	370	1320	--	.46	.16
JUL											
31...	72	7.0	310	12	210	91	410	1250	38	--	.03
AUG											
28...	--	--	--	--	--	98	380	1210	57	<.01	.05
SEP											
25...	--	--	--	--	--	110	390	1180	52	.03	.01

07364088 COFFEE CREEK NEAR CROSSETT, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	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)	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)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT											
11...	.05	.39	.48	<10	<5	30	1200	60	2100	--	90
NOV											
07...	.07	3.2	.49	20	--	10	1200	--	1800	--	540
DEC											
05...	<.05	.24	.43	<10	--	<20	990	--	1100	--	50
JAN											
09...	<.05	.26	.11	<10	<5	30	1100	50	1300	--	80
FEB											
06...	.03	.16	.17	10	--	40	1500	--	1700	--	90
MAR											
06...	.02	.19	--	<10	--	<20	1100	--	1600	--	80
APR											
04...	.03	.25	.50	<10	10	50	1200	10	1600	--	60
MAY											
01...	.05	.39	.43	<10	--	20	980	--	1600	--	40
30...	.15	.36	.48	<10	--	30	1100	--	1800	--	50
JUN											
26...	.62	.52	.38	<10	--	20	1100	--	1700	--	30
JUL											
31...	.01	.49	.25	<10	--	<20	1100	60	1900	<1.0	20
AUG											
28...	.04	.62	.44	<10	<5	<20	910	--	1900	--	10
SEP											
25...	.04	.04	.27	<10	--	20	1000	--	--	--	30

07364115 BAYOU BARTHOLOMEW NEAR LADD, AR

LOCATION.--Lat 34°06'24", long 91°54'06", in NW¼ sec.22, T.7 S., R.8 W., Jefferson County, Hydrologic Unit 08040205, at bridge on county road 2.2 mi (3.5 km) south of Ladd.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
11...	9827	9827	100	7.4	17.0	50	5.6	58	2.5	200	24
NOV											
07...	9827	9827	128	6.8	18.0	30	3.4	36	2.6	85	--
DEC											
05...	9827	9827	104	--	12.0	100	6.5	60	2.4	140	--
JAN											
09...	9827	9827	139	7.6	3.0	80	11.2	83	2.1	680	26
FEB											
06...	9827	9827	72	6.9	1.0	75	11.9	84	--	25	--
MAR											
06...	9827	9827	109	6.9	8.0	80	10.7	90	2.4	36	--
APR											
04...	9827	9827	138	7.0	22.0	60	7.2	82	3.4	49	26
MAY											
01...	9827	9827	126	6.8	20.0	240	5.7	62	3.0	700	--
30...	9827	9827	70	6.5	23.0	150	3.8	44	3.2	800	--
JUN											
26...	9827	9827	105	7.1	29.0	100	3.2	41	.3	40	--
JUL											
31...	9827	9827	154	7.3	28.0	100	2.0	25	3.0	60	53
AUG											
28...	9827	9827	--	--	--	--	--	--	--	--	--
28...	9827	9827	158	7.4	28.0	60	1.4	18	4.0	--	--
SEP											
25...	9827	9827	116	7.5	24.0	70	4.6	54	2.5	30	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
11...	3.0	3.0	7.2	4.7	31	5.0	9.0	91	41	<.05
NOV										
07...	--	--	--	--	--	8.0	8.5	85	29	.11
DEC										
05...	--	--	--	--	--	10	8.5	105	39	.51
JAN										
09...	3.0	2.9	8.9	5.6	37	--	11	115	46	.07
FEB										
06...	--	--	--	--	--	9.0	7.0	100	17	.34
MAR										
06...	--	--	--	--	--	15	11	102	17	.26
APR										
04...	4.0	2.7	11	3.8	34	17	13	117	44	.04
MAY										
01...	--	--	--	--	--	10	13	248	1090	.67
30...	--	--	--	--	--	8.0	5.5	224	726	.82
JUN										
26...	--	--	--	--	--	6.0	9.5	100	--	.51
JUL										
31...	11	4.0	15	4.4	55	2.0	14	143	46	.08
AUG										
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	3.0	9.5	129	29	.04
SEP										
25...	--	--	--	--	--	8.0	8.0	94	42	<.01

07364115 BAYOU BARTHOLOMEW NEAR LADD, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
11...	<.05	<.05	.07	.13	<10	<5	<10	2300	<10	230
NOV										
07...	<.05	.13	.18	.17	<10	--	<10	1600	--	410
DEC										
05...	<.05	.54	.14	.30	<10	--	20	3000	--	99
JAN										
09...	<.05	.09	.06	.21	<10	10	<20	3200	20	210
FEB										
06...	.03	.37	.15	.39	<10	--	20	2500	--	79
MAR										
06...	.01	.27	.19	--	<10	--	<20	1800	--	65
APR										
04...	.01	.05	.05	.21	<10	<5	<20	2500	<10	410
MAY										
01...	.01	.68	.45	1.7	<10	--	50	15100	--	710
30...	.18	1.0	.56	1.3	<10	--	30	13400	--	500
JUN										
26...	.02	.53	.40	.45	<10	--	<20	1400	--	1000
JUL										
31...	.01	.09	.21	.29	40	--	<20	3400	<10	1400
AUG										
28...	--	--	--	--	--	--	--	--	--	--
28...	.01	.05	.25	.32	<10	10	<20	2200	--	1600
SEP										
25...	.01	.01	.05	.34	<10	--	<20	3100	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
11...	--	20	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	<10	--	--	--	--	--	--	--	--
DEC										
05...	--	40	--	--	--	--	--	--	--	--
JAN										
09...	--	280	--	--	--	--	--	--	--	--
FEB										
06...	--	40	--	--	--	--	--	--	--	--
MAR										
06...	--	40	.00	.00	.00	.00	.00	.00	.00	0
APR										
04...	--	20	--	--	--	--	--	--	--	--
MAY										
01...	--	120	--	--	--	--	--	--	--	--
30...	--	100	--	--	--	--	--	--	--	--
JUN										
26...	--	50	.00	.00	.00	.00	.00	.00	.00	0
JUL										
31...	<1.0	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG										
28...	--	--	.00	.00	.00	.00	.00	.00	.00	0
28...	--	<10	--	--	--	--	--	--	--	--
SEP										
25...	--	<10	.00	.00	.00	.00	.00	.00	.00	0

07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE, AR

LOCATION.--Lat 33°37'40", long 91°26'45", in NE¼SW¼ sec.30, T.12 S., R.3 W., Desha County, Hydrologic Unit 08050001, near center of stream on downstream side of bridge on State Highway 4, 2.7 mi (4.3 km) west of McGehee, 17.5 mi (28.2 km) downstream from Ables Creek, and at mile 200.5 (322.6 km).

DRAINAGE AREA.--592 mi^2 (1,533 km^2).

PERIOD OF RECORD.--October 1938 to September 1942, October 1945 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since August 1938. Daily stages 1940 to date and results of discharge measurements 1938, 1947 to date are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 120.48 ft (36.722 m) 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 (0.305 m) higher. Since Jan. 20, 1971, auxiliary water-stage recorder 14 mi (23 km) upstream.

REMARKS.--Records good. Some diversions above station for irrigation.

AVERAGE DISCHARGE.--37 years (1939-42, 1946-78), 661 ft^3/s (18.7 m^3/s), 15.16 in/yr (385 mm/yr), 478,900 acre-ft/yr (590 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,870 ft^3/s (195 m^3/s) May 11, 1958, gage height, 25.49 ft (7.769 m), present datum; minimum, 0.20 ft^3/s (0.006 m^3/s) Aug. 15-23, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1930, that of May 11, 1958. Flood in 1932 reached a stage of 23.4 ft (7.769 m), present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,150 ft^3/s (60.9 m^3/s) Feb. 2; maximum gage height, 14.60 ft (4.450 m), Feb. 3; minimum discharge, 20 ft^3/s (0.57 m^3/s) Aug. 29, gage height, 1.20 ft (0.366 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	37	139	55	2120	356	209	80	628	83	30	26
2	47	39	147	52	2140	352	195	96	708	74	31	25
3	47	44	137	49	2120	362	180	100	694	65	35	30
4	47	45	132	47	2050	390	165	109	618	56	35	40
5	43	46	172	44	1940	420	151	110	533	45	35	60
6	42	47	250	43	1820	446	136	114	456	45	35	80
7	61	46	343	42	1680	459	123	346	404	40	34	90
8	81	49	471	44	1540	464	112	728	415	40	29	95
9	86	60	512	46	1400	462	104	903	426	40	26	95
10	81	91	503	62	1271	458	99	989	405	35	26	95
11	72	118	487	81	1140	450	109	1030	337	35	27	95
12	61	130	448	91	1010	431	115	1090	306	30	28	90
13	51	128	390	107	901	420	113	1170	311	30	30	90
14	43	118	347	129	786	483	107	1220	333	30	28	84
15	42	103	286	157	695	492	102	1250	354	30	27	67
16	55	88	237	201	626	467	96	1290	364	30	27	53
17	74	75	202	325	571	433	93	1310	362	30	27	42
18	83	64	172	478	534	404	133	1310	351	30	28	35
19	82	55	147	532	524	365	207	1290	340	30	27	31
20	74	49	127	543	517	338	256	1250	329	30	26	36
21	66	47	115	553	504	322	240	1190	314	30	25	57
22	56	46	107	581	490	307	199	1120	291	30	25	71
23	48	42	103	631	465	289	157	1040	267	30	25	73
24	42	40	99	792	435	276	123	956	230	30	26	69
25	39	40	94	1040	402	262	97	871	195	35	27	59
26	37	39	89	1220	369	250	79	809	162	35	27	48
27	36	39	83	1330	338	242	69	778	135	35	25	39
28	36	39	76	1470	348	237	63	766	113	35	23	31
29	36	55	70	1660	---	234	60	756	99	35	21	26
30	36	102	65	1870	---	228	61	735	92	35	21	23
31	37	---	60	2030	---	220	---	690	---	30	24	---
TOTAL	1689	1923	6602	16305	28745	11319	3953	25496	10572	1188	860	1755
MEAN	54.5	64.1	213	526	1027	365	132	822	352	38.3	27.7	58.5
MAX	86	130	512	2030	2140	492	256	1310	708	83	35	95
MIN	36	37	60	42	334	220	60	80	92	30	21	23
CFSM	.09	.11	.36	.89	1.74	.62	.22	1.39	.60	.07	.05	.10
IN.	.11	.12	.41	1.02	1.81	.71	.25	1.60	.66	.07	.05	.11
AC-FT	3350	3810	13100	32340	57020	22450	7840	50570	20970	2360	1710	3480

CAL YR 1977	TOTAL	140233	MEAN 384	MAX 2390	MIN 28	CFSM .65	IN 8.81	AC-FT 278200				
WTR YR 1978	TOTAL	110407	MEAN 302	MAX 2140	MIN 21	CFSM .51	IN 6.94	AC-FT 219000				

07364600 BAYOU DE LOUTRE NEAR EL DORADO, AR

LOCATION.--Lat 33°05'55", long 92°35'32", in SE¼NW¼ sec.6, T.19 S., R.14 W., Union County, Hydrologic Unit 08040202, at bridge on county road 0.8 mi (1.3 km) downstream from Highbank Creek, and 8.5 mi (13.7 km) southeast of El Dorado.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
24...	9827	9827	6080	7.6	21.0	35	2.9	32	>2.9	36	580
NOV											
30...	9827	9827	2320	6.4	8.0	55	7.6	64	5.8	3300	--
DEC											
19...	9827	9827	2610	7.2	15.0	35	6.3	62	3.2	200	--
JAN											
23...	9827	9827	2170	6.9	4.0	40	10.2	78	4.2	27	200
FEB											
21...	9827	9827	2030	7.1	3.0	40	10.7	79	2.4	<5	--
MAR											
20...	9827	9827	3430	7.3	18.0	40	5.3	56	5.1	100	--
APR											
17...	9827	9827	4100	7.5	22.0	50	3.9	44	>3.9	110	340
MAY											
15...	9827	9827	650	6.6	25.0	140	4.3	51	3.4	90	--
JUN											
12...	9827	9827	3660	7.2	30.0	60	4.2	55	3.5	88	--
JUL											
17...	9827	9827	5680	7.7	32.0	40	5.5	74	5.0	150	950
AUG											
14...	9827	9827	--	7.8	--	40	--	--	9.2	1000	--
SEP											
11...	9827	9827	5780	7.2	26.0	45	3.1	38	5.6	--	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
24...	190	28	1000	12	160	71	2200	3490	24	5.5
NOV										
30...	--	--	--	--	--	47	680	1390	17	.69
DEC										
19...	--	--	--	--	--	65	760	1470	9	.48
JAN										
23...	55	15	340	5.9	38	46	660	1260	--	.36
FEB										
21...	--	--	--	--	--	--	580	1130	21	.56
MAR										
20...	--	--	--	--	--	--	980	1970	--	.58
APR										
17...	97	22	590	9.3	110	53	1500	2290	18	.68
MAY										
15...	--	--	--	--	--	10	220	--	13	.11
JUN										
12...	--	--	--	--	--	40	1100	2160	15	.87
JUL										
17...	160	32	--	14	96	67	2100	3520	30	.68
AUG										
14...	--	--	--	--	--	54	2400	4360	--	.73
SEP										
11...	--	--	--	--	--	52	1700	3460	20	.40

07364600 BAYOU DE LOUTRE NEAR EL DORADO, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT 24...	.28	5.8	6.2	1.7	20	<5	10	830	10	540
NOV 30...	.08	.77	.55	.35	<10	--	<20	610	--	170
DEC 19...	.23	.71	3.8	.41	<10	--	20	890	--	540
JAN 23...	<.05	.39	2.3	.18	<10	<5	140	820	10	420
FEB 21...	.03	.59	.76	.22	<10	--	40	580	--	370
MAR 20...	.15	.73	3.5	.65	<10	--	30	1100	--	1300
APR 17...	.42	1.1	3.3	--	30	7	<20	980	70	2300
MAY 15...	.09	.20	.48	.46	<10	--	20	2500	--	1500
JUN 12...	.63	1.5	.72	.26	10	--	20	560	--	730
JUL 17...	.15	.83	1.9	.48	10	--	40	920	80	1400
AUG 14...	.01	.74	3.5	1.7	10	--	40	1100	--	810
SEP 11...	.01	.41	.24	.68	10	--	30	890	--	1100

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT 24...	--	30	--	--	--	--	--	--	--	--
NOV 30...	--	80	--	--	--	--	--	--	--	--
DEC 19...	--	80	.00	.00	.00	.00	.00	.00	.00	0
JAN 23...	--	80	--	--	--	--	--	--	--	--
FEB 21...	--	70	--	--	--	--	--	--	--	--
MAR 20...	--	50	--	--	--	--	--	--	--	--
APR 17...	--	40	--	--	--	--	--	--	--	--
MAY 15...	--	20	--	--	--	--	--	--	--	--
JUN 12...	--	90	--	--	--	--	--	--	--	--
JUL 17...	<1.0	30	--	--	--	--	--	--	--	--
AUG 14...	--	40	--	--	--	--	--	--	--	--
SEP 11...	--	90	--	--	--	--	--	--	--	--

07365800 CORNIE BAYOU NEAR THREE CREEKS, AR

LOCATION.--Lat 33°02'21", long 92°56'15", in SW¼NW¼ sec.36, T,19 S., R.18 W., Union County, Hydrologic Unit 08040206, on left bank at downstream side of bridge on State Highway 15, 3.4 mi (5.5 km) downstream from Pidgeon Roost Creek, 6.0 mi (9.7 km) southwest of town of Three Creeks.

DRAINAGE AREA.--180 mi^2 (466 km^2).

PERIOD OF RECORD.--February 1956 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 29, 1959, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 172 ft^3/s (4.87 m^3/s), 12.98 in/yr (330 mm/yr), 124,600 acre-ft/yr (154 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,000 ft^3/s (1,840 m^3/s) June 8, 1974, gage height, 17.50 ft (5.334 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of contracted-opening measurement at 35,800 ft^3/s (1,010 m^3/s); no flow at times in 1956, 1964, 1968, 1969, 1970, 1972, 1977, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, that of June 8, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,530 ft^3/s (100 m^3/s) May 8 at 1100, gage height, 10.92 ft (3.328 m), no other peak above base of 1,400 ft^3/s (40 m^3/s); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	.00	6.2	7.3	19	74	23	18	18	.84	.00	17
2	3.3	.00	10	7.9	19	89	22	14	28	.76	.00	8.7
3	2.2	.00	16	7.0	21	102	19	37	32	.81	.00	3.9
4	1.5	.00	17	5.8	19	93	16	92	30	.69	.00	2.2
5	.80	.00	11	5.1	17	79	14	119	26	.70	.00	1.5
6	.76	.00	6.2	5.2	14	54	17	123	20	1.1	.00	.89
7	.30	.00	4.8	7.4	11	47	15	1180	23	.80	.00	.68
8	.20	.00	4.3	11	9.5	85	9.9	3340	100	.50	.00	.40
9	.10	.00	3.3	11	7.7	120	7.8	1820	150	.30	.00	.20
10	.10	.00	2.9	10	6.9	105	8.6	947	63	.20	.00	.20
11	.00	.00	2.4	12	6.8	68	37	675	30	.20	.00	.20
12	.00	.00	3.1	13	7.3	48	60	878	19	.10	.00	.60
13	.00	.00	3.8	18	37	38	51	778	13	.10	.00	.60
14	.00	.00	15	23	95	38	38	731	9.2	.10	.00	.30
15	.00	.00	25	21	110	56	22	805	7.2	.10	.00	.89
16	.00	.00	19	23	70	90	16	619	5.8	.10	.00	.98
17	.00	.00	14	66	37	67	13	418	4.6	.10	.00	1.2
18	.00	.00	10	112	30	44	68	196	3.9	.10	.00	1.2
19	.00	.00	8.1	107	35	31	111	117	3.4	.09	.00	.89
20	.00	.00	6.6	63	35	25	132	83	3.3	.00	.00	.60
21	.00	.00	4.8	36	31	22	75	60	3.1	.00	.00	.64
22	.00	.00	4.0	26	24	23	36	156	3.4	.00	.00	.64
23	.00	.00	3.1	21	20	28	27	236	2.7	.00	.00	.68
24	.00	.00	2.6	29	17	38	45	126	2.3	.00	.00	.60
25	.00	.35	2.5	74	26	68	121	63	2.0	.00	.00	.50
26	.00	.54	3.0	114	35	121	126	41	1.7	.00	.00	.40
27	.00	.30	4.2	124	45	100	118	30	1.5	.00	.00	.30
28	.00	.21	2.2	96	60	63	69	24	1.4	.00	.00	.20
29	.00	.76	2.6	55	---	45	37	29	1.2	.00	.77	.20
30	.00	1.4	2.4	32	---	35	24	22	1.0	.00	28	.10
31	.00	---	4.8	22	---	28	---	20	---	.00	23	---
TOTAL	13.66	3.56	226.9	1164.7	865.2	1924	1373.3	13797	602.0	7.69	51.77	47.39
MEAN	.44	.12	7.32	37.6	30.9	62.1	45.8	445	20.1	.25	1.67	1.58
MAX	4.4	1.4	25	124	110	121	132	3340	150	1.1	28	17
MIN	.00	.00	2.2	5.1	6.8	22	7.8	14	1.0	.00	.00	.10
CFSM	.002	.001	.04	.21	.17	.35	.25	2.47	.11	.001	.009	.009
IN.	.00	.00	.05	.24	.18	.40	.28	2.85	.12	.00	.01	.01
AC-FT	27	7.1	450	2310	1720	3820	2720	27370	1190	15	103	94

CAL YR 1977 TOTAL 23472.36 MEAN 64.3 MAX 957 MIN .00 CFSM .36 IN 4.85 AC-FT 46560
WTR YR 1978 TOTAL 20077.17 MEAN 55.0 MAX 3340 MIN .00 CFSM .31 IN 4.15 AC-FT 39820

07367666 BIG BAYOU NEAR JEROME, AR

LOCATION.--Lat 33°23'20", long 91°25'30", in SE¼ sec.17, T.15 S., R.3 W., Chicot County, Hydrologic Unit 08050001, at bridge on State Highway 144, 2.5 mi (4.0 km) southeast of Jerome.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATUHE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31616)	HARDNESS (MG/L AS CACO3) (00900)
OCT											
11...	9827	9827	283	7.9	19.0	100	5.5	59	11	420	65
NOV											
07...	9827	9827	207	7.0	21.0	60	6.7	74	5.4	660	--
DEC											
05...	9827	9827	193	7.1	15.0	110	8.3	81	3.5	180	--
JAN											
09...	9827	9827	418	7.8	6.0	100	10.0	80	4.8	4100	89
FEB											
06...	9827	9827	205	7.7	2.0	50	13.2	96	4.4	320	--
MAR											
06...	9827	9827	130	7.2	7.0	250	11.3	93	4.1	220	--
APR											
04...	9827	9827	281	7.6	21.0	100	7.5	83	3.1	20	51
MAY											
01...	9827	9827	168	7.4	22.0	120	4.1	47	2.1	320	--
30...	9827	9827	291	7.3	27.0	80	5.4	67	4.3	250	--
JUN											
26...	9827	9827	281	7.8	30.0	50	6.8	89	3.0	--	--
JUL											
31...	9827	9827	584	8.2	28.0	30	6.0	76	1.5	230	210
AUG											
28...	9827	9827	572	8.0	28.0	15	5.8	73	1.7	--	--
SEP											
25...	9827	9827	483	8.1	24.0	25	5.8	68	1.3	<10	--

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOVERABLE (MG/L AS NA) (00929)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	ALKALINITY (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT										
11...	11	8.0	27	7.2	75	10	37	227	94	.51
NOV										
07...	--	--	--	--	--	14	26	188	110	.67
DEC										
05...	--	--	--	--	--	14	23	181	66	.74
JAN										
09...	13	10	29	9.5	92	--	57	365	158	.70
FEB										
06...	--	--	--	--	--	7.0	21	190	71	.21
MAR										
06...	--	--	--	--	--	14	9.0	227	76	1.0
APR										
04...	7.0	6.8	27	5.9	93	14	21	227	39	.32
MAY										
01...	--	--	--	--	--	11	13	214	285	1.6
30...	--	--	--	--	--	11	41	219	72	.58
JUN										
26...	--	--	--	--	--	5.0	25	189	--	.59
JUL										
31...	55	18	37	5.0	180	1.0	72	399	17	.14
AUG										
28...	--	--	--	--	--	5.0	73	359	50	.02
SEP										
25...	--	--	--	--	--	11	58	286	47	.01

07367666 BIG BAYOU NEAR JEROME, AR--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)
OCT										
11...	.06	.57	.40	.90	<10	10	20	2500	10	190
NOV										
07...	.06	.73	.33	.42	<10	--	<10	5200	--	180
DEC										
05...	.06	.80	.25	.41	<10	--	20	3100	--	380
JAN										
09...	.09	.79	.46	.45	<10	30	130	7500	50	370
FEB										
06...	.04	.25	.15	.39	<10	--	160	4200	--	120
MAR										
06...	.08	1.1	.36	--	<10	--	<20	6400	--	130
APR										
04...	.04	.36	.16	.23	<10	8	<20	3100	<10	170
MAY										
01...	.13	1.7	.50	.46	<10	--	40	8700	--	340
30...	.12	.70	.77	.21	<10	--	20	2800	--	260
JUN										
26...	.03	.62	.17	.16	<10	--	<20	1400	--	250
JUL										
31...	.03	.17	.12	.17	20	--	<20	620	<10	210
AUG										
28...	.01	.03	.10	.21	<10	<5	<20	1300	--	180
SEP										
25...	<.01	.01	.08	.28	<10	--	<20	860	--	--

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALDRIN, TOTAL (UG/L) (39330)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DIELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	LINDANE TOTAL (UG/L) (39782)	METHYL PARATHION, TOTAL (UG/L) (39600)	TOXAPHENE, TOTAL (UG/L) (39400)
OCT										
11...	--	20	.00	.00	.00	.00	.00	.00	.00	0
NOV										
07...	--	40	--	--	--	--	--	--	--	--
DEC										
05...	--	30	--	--	--	--	--	--	--	--
JAN										
09...	--	330	--	--	--	--	--	--	--	--
FEB										
06...	--	130	--	--	--	--	--	--	--	--
MAR										
06...	--	120	.00	.00	.00	.00	.00	.00	.00	0
APR										
04...	--	20	--	--	--	--	--	--	--	--
MAY										
01...	--	60	--	--	--	--	--	--	--	--
30...	--	20	--	--	--	--	--	--	--	--
JUN										
26...	--	<10	.00	.00	.00	.00	.00	.00	.00	0
JUL										
31...	<1.0	10	.00	--	.00	.00	.00	.00	.00	0
AUG										
28...	--	10	.00	.00	.00	.00	.00	.00	.00	0
SEP										
25...	--	<10	.00	.00	.00	.00	.00	.00	.00	0

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation of each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but it is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		St. Francis River basin					
07046530	Ditch No. 42 at Hickman, Ar.	Lat 35°57'14", long 89°43'59", on west line of SW¼NW¼ sec.5, T.15 N., R.13 E., Mississippi County, at culvert on State Highway 137, 0.7 mile (1.1 km) north of Hickman.	1.08	1963-78	7-11-78	10.23	100
07047200	Ditch No. 45 near Lepanto, Ar.	Lat 35°36'46", long 90°22'30", in SW¼SW¼ sec.32, T.12 N., R.7 E., Poinsett County, at culvert on State Highway 14, 2.5 miles (4.0 km) west of Lepanto.	2.16	1962-78	5- 7-78	8.65	203
07047820	Murray Creek near Jonesboro, Ar.	Lat 35°51'52", long 90°38'26", in SW¼SW¼ sec.2, T.14 N., R.4 E., Craighead County, at culvert on State Highway 1, 4.0 miles (6.4 km) northeast of Jonesboro.	1.38	1960-78	5- 7-78	9.60	455
07047880	Pope Creek tributary at Birdeye, Ar.	Lat 35°22'35", long 90°42'02", in NE¼SE¼ sec.30, T.9 N., R.4 E., Cross County, at culvert on State Highway 42, 0.9 mile (1.4 km) west of Birdeye.	.08	1963-78	9-13-78	7.73	511
07047924	Crooked Bayou tributary at State Highway 149, at Hughes, Ar.	Lat 34°57'07", long 90°28'00", in SW¼SE¼ sec.16, T.4 N., R.6 E., St. Francis County, at culvert on State Highway 149, 0.4 mile (.6 km) northeast of junction of State Highways 38 and 149, at Hughes.	.48	1963-78	1- 8-78	8.65	108
		White River basin					
07047975	Dog Branch at St. Paul, Ar.	Lat 35°49'32", long 93°45'49", in NW¼NW¼ sec.4, T.13 N., R.26 W., Madison County, at culvert on State Highway 23, at St. Paul.	1.23	1961-78	5- 7-78	8.02	260
07047990	West Fork White River tributary near Greenland, Ar.	Lat 35°58'22", long 94°09'56", in NW¼SE¼ sec.16, T.15 N., R.30 W., Washington County, at culvert on U.S. Highway 71, 1.5 miles (2.4 km) south of Greenland.	.67	1960-78	3-24-78	6.11	255
07048900	Whitener Branch tributary near Spring Valley, Ar.	Lat 36°10'24", long 93°54'59", in SE¼NW¼ sec.1, T.17 N., R.28 W., Washington County, at culvert on State Highway 68, 1.0 mile (1.6 km) east of Spring Valley.	1.07	1960-78	9-21-78	6.09	143
07048940	War Eagle Creek near Witter, Ar.	Lat 35°54'05", long 93°42'04", in SE¼SE¼ sec.2, T.14 N., R.26 W., Madison County, at bridge on State Highway 23, 2.8 miles (4.5 km) south of Witter.	22.4	1963-78	3-24-78	14.56	5,500
07050200	Maxwell Creek at Kingston, Ar.	Lat 36°03'06", long 93°31'03", in SW¼NW¼ sec.15, T.16 N., R.24 W., Madison County, at bridge on State Highway 21, 0.1 mile (.2 km) north of Kingston.	2.75	1961, 1963-78	7-15-78	5.91	480
07050400	Freeman Branch at Berryville, Ar.	Lat 36°22'06", long 93°33'33", in SE¼NW¼ sec.29, T.20 N., R.24 W., Carroll County, at culvert on College Street, 0.5 mile (.8 km) east of State Highway 21 in Berryville. Prior to 1972 published as Osage Creek tributary at Berryville.	.73	1961-78	3-24-78	5.21	85
07050500	Kings River near Berryville, Ar.	Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, on right bank at downstream side of bridge on State Highway 143, 5.3 miles (8.5 km) northwest of Berryville.	527	1939-75‡ 1976-78	3-24-78	28.27	34,200

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		White River basin--Continued					
07054400	Charley Creek near Omaha, Ar.	Lat 36°27'24", long 93°04'46", in NW¼SW¼ sec.23, T.21 N., R.20 W., Boone County, at culvert on State Highway 14, 6.1 miles (9.8 km) east of Omaha.	3.41	1962-78	3-24-78	11.36	1,970
07054450	East Sugarloaf Creek tributary near Lead Hill, Ar.	Lat 36°22'28", long 92°49'52", in NW¼NW¼ sec.19, T.20 N., R.17 W., Marion County, at culvert on State Highway 14, 5.0 miles (8.0 km) southeast of Lead Hill.	.85	1962-78	3-24-78	7.91	275
07055550	Crooked Creek tributary near Dogpatch, Ar.	Lat 36°09'01", long 93°07'23", in SW¼SW¼ sec.4, T.17 N., R.20 W., Boone County, at culvert on State Highway 7, 2.9 miles (4.7 km) north of Dogpatch. Prior to 1967 published as Crooked Creek tributary near Marble Falls.	4.36	1961-78	3-24-78	7.48	635
07055650	Smith Creek near Boxley, Ar.	Lat 35°56'50", long 93°23'52", in SW¼NW¼ sec.23, T.15 N., R.23 W., Newton County, at bridge on State Highway 21, 1.7 miles (2.7 km) south of Boxley.	8.35	1963-78	3-24-78	a6.75	1,500
07055800	Dry Branch near Vendor, Ar.	Lat 35°56'00", long 93°06'46", in SW¼SW¼ sec.21, T.15 N., R.20 W., Newton County, at bridge on county road, 2.4 miles (3.9 km) southwest of Vendor.	6.15	1962-78	3-24-78	10.05	790
07057300	Dodd Creek tributary near Mountain Home, Ar.	Lat 36°19'05", long 92°24'01", in NE¼SW¼ sec.17, T.19 N., R.13 W., Baxter County, at culvert on U.S. Highway 62, 1.5 miles (2.4 km) southwest of Mountain Home. Prior to 1966 published as Big Creek tributary near Mountain Home.	.76	1961-78	3-24-78	10.33	285
07060600	Band Mill Creek near Brockwell, Ar.	Lat 36°08'02", long 91°58'48", in SE¼SE¼ sec.7, T.17 N., R.9 W., Izard County, at culvert on State Highway 56, 3.1 miles (5.0 km) west of Brockwell.	1.25	1961-78	11- 2-77	4.63	135
07060670	Hughes Creek near Mountain View, Ar.	Lat 35°51'46", long 92°08'47", in NE¼SW¼ sec.10, T.14 N., R.11 W., Stone County, at bridge on State Highway 66, 1.7 miles (2.7 km) west of Mountain View. Prior to 1969 published as Lick Fork tributary near Mountain View.	3.20	1961-78	11- 2-77	5.81	525
07060830	Wolf Bayou near Drasco, Ar.	Lat 35°39'36", long 91°55'15", in NW¼SE¼ sec.23, T.12 N., R.9 W., Cleburne County, at culvert on State Highway 25, 2.4 miles (3.9 km) northeast of Drasco.	.27	1963-78	5- 7-78	4.75	29
07061100	Gibbs Creek at Sulphur Rock, Ar.	Lat 35°45'52", long 91°30'52", in SE¼SW¼ sec.15, T.13 N., R.5 W., Independence County, at culvert on State Highway 69, 0.9 mile (1.4 km) west of Sulphur Rock.	3.90	1962-78	8-30-78	7.04	480
07068870	Fourche River tributary at Middlebrook, Ar.	Lat 36°27'46", long 90°55'26", in NW¼SW¼ sec.13, T.21 N., R.1 E., Randolph County, at culvert on State Highway 115, 0.3 mile (.5 km) north of Middlebrook. Prior to 1969 published as Fourche Creek tributary at Middlebrook.	.19	1961-78	8-30-78	6.19	86
07068890	Fourche River above Pocahontas, Ar.	Lat 36°20'21", long 90°56'33", in NE¼NW¼ sec.35, T.20 N., R.1 E., Randolph County, on right bank at upstream side of bridge on State Highway 115, 5.6 miles (9.0 km) north of Pocahontas.	229	1965-70‡ 1971-78	4-11-78	19.48	5,940
07069000	Black River at Pocahontas, Ar.	Lat 36°15'14", long 90°58'12", in SW¼SW¼ sec.27, T.19 N., R.1 E., Randolph County, at bridge on U.S. Highway 67 at Pocahontas.	4,845	1937-70‡ 1971-78	3-30-78	19.55	17,600

‡ Operated as a continuous-record gaging station.
a Downstream gage.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		White River basin--Continued					
07069250	Brush Creek near Mammoth Spring, Ar.	Lat 36°25'36", long 91°29'27", in SE¼SE¼ sec.34, T.21 N., R.5 W., Fulton County, at culvert on U.S. Highway 63, 5.5 miles (8.8 km) southeast of Mammoth Spring. Prior to 1967 published as Spring River tributary near Mammoth Spring.	.48	1961-78	5- 7-78	7.22	98
07069290	Miller Creek near Salem, Ar.	Lat 36°20'13", long 91°46'32", in SE¼NW¼ sec.6, T.19 N., R.7 W., Fulton County, at culvert on U.S. Highway 62, 3.6 miles (5.8 km) southeast of Salem.	2.28	1961, 1963-78	11- 3-77	4.72	258
07072200	Hubble Creek near Pocahontas, Ar.	Lat 36°15'32", long 91°02'02", in SE¼SW¼ sec.25, T.19 N., R.1 W., Randolph County, at culvert on U.S. Highway 62, 3.4 miles (5.5 km) west of Pocahontas. Prior to 1966 published as Eleven Point River tributary near Pocahontas.	1.33	1961-78	8-30-78	b8.15	370
07074200	Dry Branch tributary near Sidney, Ar.	Lat 36°00'12", long 91°35'06", in NW¼SW¼ sec.25, T.16 N., R.6 W., Sharp County, at culvert on U.S. Highway 167, 4.2 miles (6.8 km) east of Sidney. Prior to 1963 published as Big Creek tributary near Sidney.	1.22	1961-78	5- 7-78	9.13	420
07074250	Reeds Creek near Strawberry, Ar.	Lat 35°58'58", long 91°20'12", in SW¼SW¼ sec.32, T.16 N., R.3 W., Lawrence County, at bridge on State Highway 117, 1.4 miles (2.3 km) northwest of Strawberry.	34.9	1963-78	11- 2-77	b12.11	1,300
07074550	Village Creek near O'Kean, Ar.	Lat 36°10'45", long 90°50'29", on south line SW¼SW¼ sec.23, T.18 N., R.2 E., Randolph County, at bridge on State Highway 90, 1.6 miles (2.6 km) northwest of O'Kean. Prior to 1965 published as Village Creek Main Ditch near O'Kean.	6.24	1961-78	8-30-78	7.29	130
07074855	Cypress Creek tributary near Augusta, Ar.	Lat 35°20'37", long 91°20'38", in SE¼SE¼ sec.6, T.8 N., R.3 W., Woodruff County, at culvert on State Highway 33, 4.4 miles (7.1 km) north of Augusta.	5.54	1962-78	9-13-78	4.27	305
07074900	Trace Creek tributary near Marshall, Ar.	Lat 35°52'14", long 92°36'08", in NE¼SW¼ sec.8, T.14 N., R.15 W., Searcy County, at culvert on U.S. Highway 65, 3.2 miles (5.1 km) south of Marshall.	.26	1961-78	8-30-78	10.40	203
07074950	Tick Creek near Leslie, Ar.	Lat 35°51'20", long 92°26'24", in SW¼NE¼ sec.14, T.14 N., R.14 W., Searcy County, at culvert on State Highway 66, 1.5 miles (2.4 km) northeast of Oxley, and 7.0 miles (11.3 km) east of Leslie.	1.58	1961-78	5- 7-78	7.28	320
07075600	Choctaw Creek tributary near Choctaw, Ar.	Lat 35°31'36", long 92°25'02", in SE¼SW¼ sec.6, T.10 N., R.13 W., Van Buren County, at culvert on State Highway 330, 1.4 miles (2.3 km) east of Choctaw.	1.36	1964-78	11- 2-77	9.04	195
07075800	Dill Branch tributary near Ida, Ar.	Lat 35°32'33", long 91°57'34", in SW¼NE¼ sec.33, T.11 N., R.9 W., Cleburne County, at culvert on State Highway 25, 3.5 miles (5.6 km) southwest of Ida. Prior to 1975 published as Peter Creek tributary near Ida.	.26	1964-78	11- 1-77 5- 7-78 5-13-68 3-10-73 11-24-73 3-28-75	4.97 6.17 8.33 9.64 8.12 8.65	75 25 c136 c216 c123 c155
07076630	Key Branch near Searcy, Ar.	Lat 35°14'47", long 91°47'01", in NW¼SW¼ sec.8, T.7 N., R.7 W., White County, at culvert on State Highway 36, 2.8 miles (4.5 km) west of Searcy. Prior to 1964 published as Little Red River tributary near Searcy.	.66	1961-78	11- 1-77	4.97	75

b From floodmark.
c Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		White River basin--Continued					
07076820	Gum Springs Creek near Higginson, Ar.	Lat 35°12'04", long 91°43'56", on east line NE¼SE¼ sec.27, T.7 N., R.7 W., White County, at bridge on State Highway 367, 1.2 miles (1.9 km) northwest of Higginson. Prior to 1964 published as Glade Creek near Higginson.	5.00	1961-78	11- 1-77	a9.28	370
07076870	Pigeon Roost Creek at Butlerville, Ar.	Lat 34°58'36", long 91°50'38", in NW¼NE¼ sec.15, T.4 N., R.8 W., Lonoke County, at bridge on State Highway 38, 0.6 mile (1.0 km) west of Butlerville.	23.0	1961-78	5- 7-78	10.39	1,650
07077100	Big Creek near Boydsville, Ar.	Lat 36°22'12", long 90°19'50", in SE¼NW¼ sec.16, T.20 N., R.7 E., Clay County, at bridge on county road, 0.5 mile (.8 km) south of Crockett, and 4.0 miles (6.4 km) northeast of Boydsville.	12.8	1962-78	7-11-78	14.32	2,270
07077200	Big Creek tributary near Boydsville, Ar.	Lat 36°22'32", long 90°19'56", in SE¼SW¼ sec.9, T.20 N., R.7 E., Clay County, at culvert on county road, 0.1 mile (.2 km) west of Crockett, and 4.1 miles (6.6 km) northeast of Boydsville.	1.58	1962-78	5- 7-78	6.54	240
07077340	Sugar Creek tributary near Walcott, Ar.	Lat 36°04'26", long 90°36'55", in NW¼SW¼ sec.25, T.17 N., R.4 E., Greene County, at culvert on State Highway 25, 3.2 miles (5.1 km) east of junction of State Highways 25 and 141, and 3.9 miles (6.3 km) northeast of Walcott.	.68	1963-78	5- 7-78	5.15	70
07077430	Willow Ditch near Egypt, Ar.	Lat 35°56'29", long 90°56'33", in SW¼SW¼ sec.12, T.15 N., R.1 E., Lawrence County, at culvert on State Highway 91, 5.1 miles (8.2 km) north of Egypt.	.48	1963-78	8-30-78	5.31	31
07077680	Threemile Creek near Amagon, Ar.	Lat 35°33'42", long 91°01'25", in NW¼NE¼ sec.30, T.11 N., R.1 E., Poinsett County, at bridge on State Highway 14, 4.8 miles (7.7 km) east of Amagon.	7.93	1961-78	9-13-78	4.17	345
07077860	Boat Gunwale Slash near Holly Grove, Ar.	Lat 34°36'18", long 91°10'12", in SE¼SW¼ sec.13, T.1 S., R.2 W., Monroe County, at bridge on State Highway 86, 1.8 miles (2.9 km) northeast of Holly Grove. Prior to 1972 published as Boat Gunnale Slash tributary near Holly Grove.	10.0	1962-78	1-25-78	9.24	350
07077920	Big Creek at Goodwin, Ar.	Lat 34°56'22", long 91°00'55", in NE¼NE¼ sec.29, T.4 N., R.1 E., St. Francis County, at bridge on U.S. Highway 70, 0.3 mile (.5 km) east of Goodwin.	31.1	1961-78	1-25-78	9.58	690
07077940	Spring Creek near Aubrey, Ar.	Lat 34°41'16", long 90°53'45", in SW¼SE¼ sec.16, T.1 N., R.2 E., Lee County, at bridge on State Highway 121, 2.1 miles (3.4 km) south of Aubrey.	38.0	1962-78	1-25-78	b13.17	1,130
07078170	Little LaGrue Bayou tributary near DeWitt, Ar.	Lat 34°19'33", long 91°24'06", on east line NE¼NE¼ sec.26, T.4 S., R.4 W., Arkansas County, at bridge on county road, 4.5 miles (7.2 km) northwest of DeWitt.	1.51	1961-78	1-25-78	8.94	187
07078210	Tarleton Creek tributary at Ethel, Ar.	Lat 34°18'02", long 91°09'45", in NW¼SE¼ sec.31, T.4 S., R.1 W., Arkansas County, at culvert on State Highway 17, 1.0 mile (1.6 km) north of Ethel.	.20	1963-78	1-25-78	4.54	49
		Arkansas River basin					
07188900	Butler Creek tributary near Gravette, Ar.	Lat 36°26'51", long 94°26'36", in SW¼SE¼ sec.36, T.21 N., R.33 W., Benton County, at culvert on State Highway 59, 2.0 miles (3.2 km) north of Gravette.	.96	1961-78	11- 3-74 12- 6-75 4-10-78	5.93 5.50 5.74	c310 c200 260

a Downstream gage.
b From floodmark.
c Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Arkansas River basin--Continued					
07194890	Osage Creek at Cave Springs, Ar.	Lat 36°15'56", long 94°14'15", in SW¼NW¼ sec.1, T.18 N., R.31 W., Benton County, at bridge on State Highway 264, 0.4 mile (.6 km) west of Cave Springs.	40.4	1950, 1963-78	3-28-78	5.65	655
07195000	Osage Creek near Elm Springs, Ar.	Lat 36°13'19", long 94°17'18", in SW¼NE¼ sec.21, T.18 N., R.31 W., Benton County, on left bank 0.7 mile (1.1 km) downstream from Little Osage Creek, 3.2 miles (5.1 km) northwest of Elm Springs.	130	1950-75‡ 1977-78	3-24-78	8.89	3,650
07195200	Brush Creek tributary near Tontitown, Ar.	Lat 36°10'38", long 94°16'40", in NW¼SW¼ sec.3, T.17 N., R.31 W., Washington County, at culvert on State Highway 68, 2.2 miles (3.5 km) west of Tontitown.	.37	1959-78	3-28-78	5.53	17
07195450	Ballard Creek at Summers, Ar.	Lat 35°58'42", long 94°29'56", in SW¼SW¼ sec.16, T.15 N., R.33 W., Washington County, at bridge on U.S. Highway 62, 0.4 mile (.6 km) west of Summers.	14.6	1963-78	5- 7-78	11.45	4,300
07249300	James Fork near Midland, Ar.	Lat 35°04'27", long 94°20'20", in NW¼NW¼ sec.32, T.5 N., R.31 W., Sebastian County, at bridge on State Highway 252, 1.6 miles (2.6 km) southeast of Midland.	44.0	1963-78	3-24-78	b7.29	4,200
07249500	Cove Creek near Lee Creek, Ar.	Lat 35°43'20", long 94°24'28", in SW¼NW¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 miles (7.2 km) northwest of Lee Creek.	35.3	1951-70‡ 1971-78	3-24-78	7.65	3,220
07249650	Mountain Fork near Evansville, Ar.	Lat 35°42'23", long 94°28'57", in NE¼SE¼ sec.22, T.12 N., R.33 W., Crawford County, at bridge on State Highway 59, 6.2 miles (10.0 km) south of Evansville. Prior to 1971 published as Mountain Fork Creek near Evansville.	8.15	1962-78	6-19-78	7.91	1,500
07249950	Webber Creek tributary near Cedarville, Ar.	Lat 35°36'00", long 92°22'49", in SE¼SE¼ sec.27, T.11 N., R.32 W., Crawford County, at culvert on State Highway 59, 2.3 miles (3.7 km) north of Cedarville.	.34	1962-78	5- 7-78	6.12	37
07251500	Frog Bayou at Rudy, Ar.	Lat 35°31'32", long 94°16'18", in SW¼SW¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy.	216	1951-70‡ 1971-78	3-24-78	10.52	8,740
07252200	North Fork White Oak Creek tributary near Watalula, Ar.	Lat 35°35'43", long 93°50'49", in SE¼NE¼ sec.27, T.11 N., R.27 W., Franklin County, at culvert on State Highway 23, 2.2 miles (3.5 km) northwest of Watalula.	.46	1961-78	3-24-78	6.59	182
07256500	Spadra Creek at Clarksville, Ar.	Lat 35°28'06", long 93°27'46", in NW¼NE¼ sec.5, T.9 N., R.23 W., Johnson County, on right bank at Clarksville, 0.2 mile (.3 km) downstream from bridge on U.S. Highway 64.	61.1	1953-70‡ 1971-78	11- 2-77	6.20	1,980
07257060	Mikes Creek tributary near Ozone, Ar.	Lat 35°37'25", long 93°26'02", in NE¼SE¼ sec.9, T.11 N., R.23 W., Johnson County, at culvert on State Highway 21, 1.4 miles (2.3 km) southeast of Ozone.	.20	1964-78	3-24-78	3.33	32
07257100	Minnow Creek tributary near Hagarville, Ar.	Lat 35°30'10", long 93°21'56", in SE¼SE¼ sec.19, T.10 N., R.22 W., Johnson County, at culvert on State Highway 123, 2.6 miles (4.2 km) southwest of Hagarville.	.19	1962-78	5- 8-78	3.66	21
07257500	Illinois Bayou near Scottsville, Ar.	Lat 35°27'58", long 93°02'28", in SE¼SW¼ sec.32, T.10 N., R.19 W., Pope County, at bridge on county road 1.3 miles (2.1 km) north of Scottsville.	241	1948-70‡ 1971-78	3-24-78	13.68	7,320

‡ Operated as a continuous-record gaging station.
b From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Arkansas River basin--Continued					
07257700	McCoy Creek near Dover, Ar.	Lat 35°25'04", long 93°05'09", in SE¼NE¼ sec.23, T.9 N., R.20 W., Pope County, at bridge on State Highway 27, 2.0 miles (3.2 km) northeast of Dover.	7.05	1961-78	5- 8-78	5.64	530
07258200	Pack Saddle Creek tributary near Waldron, Ar.	Lat 34°58'18", long 94°05'42", in SE¼SE¼ sec.29, T.4 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 5.2 miles (8.4 km) north of Waldron.	.92	1961-78	3-24-78	5.54	220
07260000	Dutch Creek at Waltreak, Ar.	Lat 34°59'15", long 93°36'45", in SE¼NW¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mile (0.3 km) north of Waltreak.	81.4	1945-75‡ 1976-78	5- 8-78	9.39	2,260
07260630	Jake Creek near Chickalah, Ar.	Lat 35°07'49", long 93°20'19", in NW¼SE¼ sec.33, T.6 N., R.22 W., Yell County, at culvert on State Highway 27, 0.7 mile (1.1 km) northeast of Ranger, 4.2 miles (6.8 km) southwest of Chickalah.	1.85	1961-78	5- 8-78	7.29	445
07260679	East Fork Point Remove Creek tributary near Saint Vincent, Ar.	Lat 35°16'10", long 92°43'59", in NE¼NE¼ sec.7, T.7 N., R.16 W., Conway County, at culvert on State Highway 213, 2.2 miles (3.5 km) south of Saint Vincent.	.09	1967-78	3- 8-78	6.75	50
07261050	Pine Mountain Creek tributary near Damascus, Ar.	Lat 35°23'19", long 92°23'17", in NW¼SW¼ sec.28, T.9 N., R.13 W., Van Buren County, at culvert on State Highway 124, just east of junction with U.S. Highway 65, and 2.0 miles (3.2 km) northeast of Damascus.	.29	1961-78	5- 8-78	7.84	95
07261300	Tan-a-hill Creek near Boles, Ar.	Lat 34°43'49", long 94°04'43", in SW¼NW¼ sec.22, T.1 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 0.3 mile (0.5 km) southwest of Y City and 3.8 miles (6.1 km) southwest of Boles.	2.33	1960-78	3-24-78	5.11	145
07261800	Brogan Creek near Rover, Ar.	Lat 34°54'28", long 92°24'06", in NW¼SE¼ sec.13, T.3 N., R.23 W., Yell County, at culvert on State Highway 27, 2.7 miles (4.3 km) south of Rover. Prior to 1968 published as Fourche LaFave River tributary near Rover.	1.04	1963-78	8-30-78	4.13	60
07263100	Fourche LaFave River tributary near Perryville, Ar.	Lat 35°01'14", long 92°46'06", in NW¼SW¼ sec.1, T.4 N., R.17 W., Perry County, at culvert on State Highway 60, 2.2 miles (3.5 km) northeast of Perryville.	1.47	1962-78	5- 8-78	7.19	185
07263400	Little Maumelle River at Ferndale, Ar.	Lat 34°46'48", long 92°33'15", in NW¼SE¼ sec.25, T.2 N., R.15 W., Pulaski County, at bridge on county road, 0.2 mile (0.3 km) northeast of Ferndale.	15.0	1963-78	9-13-78	13.00	5,600
--	Rock Creek at Parkway in Western Little Rock, Ar.	Lat 34°45'20", long 92°25'23", in NE¼NW¼ sec.5, T.1 N., R.13 W., Pulaski County, at bridge on Parkway in western Little Rock.	6.51	1978	9-13-78	[d]432.6	5,320
--	Rock Creek tributary at Rodney Parham Road and I-630 in western Little Rock, Ar.	Lat 34°44'46", long 92°21'34", in NE¼SE¼ sec.2, T.1 N., R.13 W., Pulaski County, at culvert on Rodney Parham Road at I-630 and Mississippi St., in western Little Rock.	1.12	1978	9-13-78	[b]10.63	1,700
07263580	Rock Creek at Little Rock, Ar.	Lat 34°43'13", long 92°21'32", in NW¼SW¼ sec.13, T.1 N., R.13 W., Pulaski County, at west 36th Street bridge in Little Rock.	20.5	1978	9-13-78	18.22	22,500
--	Brodie Creek at I-430 in southwest Little Rock, Ar.	Lat 34°43'17", long 92°24'04", in NW¼SE¼ sec.16, T.1 N., R.13 W., Pulaski County, at bridge on I-430 in western Little Rock.	5.78	1978	9-13-78	[d]319.5	6,800
07263860	Mile Branch near Tomberlin, Ar.	Lat 34°29'08", long 91°51'13", in NW¼NE¼ sec.3, T.3 S., R.8 W., Jefferson County, at bridge on county road, 2.3 miles (3.7 km) southeast of Tomberlin. Prior to 1964 published as Main Ditch Lateral No. 9 near Tomberlin.	2.75	1963-78	8-29-78	10.63	380

‡ Operated as a continuous-record gaging station.
b From floodmark.
d Downstream elevation.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Arkansas River basin--Continued					
07263910	Cypress Branch near Jacksonville, Ar.	Lat 34°54'28", long 92°10'55", in SE¼NE¼ sec.9, T.3 N., R.11 W., Pulaski County, at culvert on State Highway 107, 5.0 miles (8.0 km) northwest of Jacksonville.	2.38	1961-78	11- 3-77	11.15	790
07264100	White Oak Branch near Lonoke,	Lat 34°46'20", long 91°50'34", on west line SW¼NW¼ sec.26, T.2 N., R.8 W., Lonoke County, at bridge on county road, 3.3 miles (5.3 km) east of Lonoke.	8.41	1961-78	9-13-78	8.58	750
		Red River basin					
07338700	Twomile Creek near Hatfield, Ar.	Lat 34°30'52", long 94°20'14", in NW¼NW¼ sec.8, T.3 S., R.31 W., Polk County, at bridge on U.S. Highway 71, 3.1 miles (5.0 km) northeast of Hatfield.	15.9	1963-78	5- 7-78	7.55	1,060
07339800	Pepper Creek near DeQueen, Ar.	Lat 34°02'44", long 94°18'13", on north line NW¼NE¼ sec.28, T.8 S., R.31 W., Sevier County, at bridge on U.S. Highway 71, 1.5 miles (2.4 km) east of junction of U.S. Highways 70 and 71, and 2.3 miles (3.7 km) east of DeQueen.	6.41	1961-78	3- 7-78	4.05	200
07340200	West Flat Creek near Foreman, Ar.	Lat 33°45'13", long 94°23'28", in NW¼SW¼ sec.2, T.12 S., R.32 W., Little River County, at bridge on State Highway 41, 2.3 miles (3.7 km) north of Foreman.	10.7	1962-78	3- 7-78	9.75	460
07340530	Mill Slough tributary near Lockesburg, Ar.	Lat 33°58'04", long 94°11'25", on south line SW¼NW¼ sec.22, T.9 S., R.30 W., Sevier County, at culvert on State Highway 24, 1.3 miles (2.1 km) west of Lockesburg.	.64	1963-78	5- 3-78	3.65	45
07341100	Rock Creek near Dierks, Ar.	Lat 34°06'46", long 94°02'25", in SW¼NE¼ sec.36, T.7 S., R.29 W., Howard County, at bridge on U.S. Highway 70, 1.4 miles (2.3 km) southwest of Dierks.	9.46	1961, 1963-78	3- 7-78	3.76	340
07341700	Caney Creek near Hope, Ar.	Lat 33°41'33", long 93°38'12", in SE¼NE¼ sec.24, T.12 S., R.25 W., Hempstead County, at bridge on State Highway 4, 3.1 miles (5.0 km) northwest of Hope.	12.9	1963-78	1-12-78	9.93	1,050
07344320	Mill Creek tributary near Fouke, Ar.	Lat 33°17'52", long 93°54'58", in NW¼NE¼ sec.8, T.17 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 3.0 miles (5.0 km) northwest of Fouke.	1.44	1961-78	8-29-78	6.33	67
07346800	East Fork Kelly Bayou tributary at Kiblah, Ar.	Lat 33°02'57", long 93°53'44", in NE¼NW¼ sec.3, T.20 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 0.1 mile (0.2 km) south of Kiblah.	.14	1961-78	8-29-78	6.58	18
07348630	Barlow Branch tributary near McNeil, Ar.	Lat 33°18'44", long 93°13'52", in NW¼SE¼ sec.25, T.16 S., R.21 W., Columbia County, at culvert on county road, 2.5 miles (4.0 km) south of McNeil.	.05	1961-78	8-30-78	5.74	18
07349430	Bodcau Creek at Stamps, Ar.	Lat 33°22'00", long 93°31'20", in NE¼NW¼ sec.7, T.16 S., R.23 W., Lafayette County, at bridge on U.S. Highway 82, 1.0 mile (1.6 km) west of Stamps.	234	1959-70‡ 1971-78	1-29-78	8.53	986
07355800	Lewis Creek tributary near Mean, Ar.	Lat 34°37'15", long 94°12'15", in NE¼SW¼ sec.33, T.1 S., R.30 W., Polk County, at culvert on U.S. Highway 71, 3.1 miles (5.0 km) northeast of Mena.	c.65	1961-78	5- 7-78	3.33	160
07355900	Big Fork tributary at Big Fork, Ar.	Lat 34°28'23", long 93°56'38", in SE¼NW¼ sec.23, T.3 S., R.28 W., Polk County, at culvert on State Highway 8, 0.9 mile (1.4 km) southeast of Big Fork.	c.19	1964-78	8-30-78	5.70	5
07356500	South Fork Ouachita River near Mount Ida, Ar.	Lat 34°33'37", long 93°38'09", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, at bridge on U.S. Highway 270 at Mount Ida.	c61	1950-70‡ 1971-78	5- 7-78	3.80	574

‡ Operated as a continuous-record gaging station.
c Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Red River basin--Continued					
07356700	Barnes Branch near Mount Ida, Ar.	Lat 34°33'57", long 93°37'03", in SE¼SE¼ sec.13, T.2 S., R.25 W., Montgomery County, at culvert on State Highway 27, 1.1 miles (1.8 km) northeast of Mount Ida.	1.85	1961-78	8-30-78	9.33	120
07357700	Glazypeau Creek at Mountain Valley, Ar.	Lat 34°37'33", long 93°03'10", in SE¼SE¼ sec.20, T.1 S., R.19 W., Garland County, at bridge on State Highway 7, 0.3 mile (0.5 km) southeast of Mountain Valley.	c3.84	1961-78	5- 1-78	b9.45	322
07359520	Jackson Creek near Malvern, Ar. (Formerly published as Ouachita River tributary near Malvern, Ar.)	Lat 34°22'01", long 92°52'01", in SW¼NE¼ sec.19, T.4 S., R.17 W., Hot Spring County, at culvert on State Highway 84, 3.2 miles (5.1 km) west of Malvern.	c2.95	1962-78	11-16-77	5.03	87
07359750	Little Sugarloaf Creek near Bonnerdale, Ar.	Lat 34°21'40", long 93°27'30", in NW¼SW¼ sec.27, T.4 S., R.23 W., Montgomery County, at bridge on U.S. Highway 70, 4.7 miles (7.6 km) southwest of Bonnerdale.	c2.32	1962-78	11- 1-77	8.43	558
07360150	Pearson Creek tributary near Dalark, Ar.	Lat 34°01'59", long 92°52'05", in SE¼NW¼ sec.17, T.8 S., R.17 W., Dallas County, at culvert on State Highway 8, 1.1 miles (1.8 km) east of Dalark. Prior to 1965 published as Casa Massa Creek tributary near Dalark.	c.42	1961-78	9-25-78	3.39	32
07361020	Prairie Creek tributary near Kirby, Ar.	Lat 34°09'10", long 93°37'53", in NW¼SE¼ sec.11, T.7 S., R.25 W., Pike County, at culvert on State Highway 27, 6.6 miles (10.6 km) south of Kirby.	.16	1963-78	11- 2-77	3.53	40
07361180	South Fork Ozan Creek near Ozan, Ar.	Lat 33°49'15", long 93°42'28", in SE¼SW¼ sec.5, T.11 S., R.25 W., Hempstead County, at bridge on State Highway 4, 2.0 miles (3.2 km) south of Ozan.	c17.7	1963-78	8-30-78	b17.78	2,150
07361200	Ozan Creek near McCaskill, Ar.	Lat 33°52'55", long 93°35'59", in SE¼NE¼ sec.18, T.10 S., R.24 W., Hempstead County, at bridge on State Highway 24, 3.5 miles (5.6 km) southeast of McCaskill.	c144	1940-61, 1962-70‡ 1971-78	1-17-78	12.62	2,940
07361680	Middle Caney Creek tributary near Rosston, Ar.	Lat 33°36'19", long 93°17'31", in SW¼SE¼ sec.17, T.13 S., R.21 W., Nevada County, at culvert on State Highway 19, 1.0 mile (1.6 km) north of junction of State Highways 4 and 19, and 1.3 miles (2.1 km) northwest of Rosston. Prior to 1965 published as Little Caney Creek near Rosston.	1.48	1961-78	1-13-78	7.09	52
07361780	Bradshaw Creek near Hollywood, Ar.	Lat 34°06'02", long 93°12'24", in NE¼SE¼ sec.26, T.7 S., R.21 W., Clark County, at bridge on State Highway 26, 2.6 miles (4.2 km) east of Hollywood. Prior to 1971 published as Old Bradshaw Creek near Hollywood.	c3.36	1962-78	11- 2-77	9.55	308
07362050	Ross Creek near Camden, Ar.	Lat 33°32'38", long 92°53'18", in SE¼NE¼ sec.6, T.14 S., R.17 W., Ouachita County, at bridge on U.S. Highway 79, 4.2 miles (6.8 km) southwest of Camden.	c10.3	1961-78	5-13-78	6.53	74
07362330	Dunn Creek near Hampton, Ar.	Lat 33°32'05", long 92°30'55", in SE¼NW¼ sec.2, T.14 S., R.14 W., Calhoun County, at bridge on State Highway 4, 2.8 miles (4.5 km) west of Hampton.	c13.6	1962-78	5- 7-78	6.22	320
07362450	Cooks Creek near Fordyce, Ar.	Lat 33°50'33", long 92°28'09", in NW¼NE¼ sec.19, T.10 S., R.13 W., Dallas County, at bridge on State Highway 8, 3.9 miles (6.3 km) northwest of Fordyce.	c5.02	1962-78	5- 8-78	b8.40	290

‡ Operated as a continuous-record gaging station.
b From floodmark.
c Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Red River basin--Continued					
07363050	Holly Creek tributary near Benton, Ar.	Lat 34°32'04", long 92°33'12", in SW¼NW¼ sec.19, T.2 S., R.14 W., Saline County, at culvert on State Highway 35, 2.8 miles (4.5 km) southeast of Benton.	c1.44	1962-78	9-13-78	b11.80	2,760
07363330	West Fork Big Creek at Sheridan Ar.	Lat 34°19'13", long 92°23'43", in NW¼NE¼ sec.3, T.5 S., R.13 W., Grant County, at bridge on U.S. Highway 167, 0.9 mile (1.4 km) north of junction of U.S. Highways 167 and 270 in Sheridan.	4.86	1960, 1963-78	5- 8-78	13.45	470
07363430	East Fork Derieusseaux Creek near Pine Bluff, Ar.	Lat 34°17'57", long 92°11'37", in NW¼NW¼ sec.10, T.5 S., R.11 W., Jefferson County, at culvert on U.S. Highway 270, 12.0 miles (19.3 km) northwest of Pine Bluff.	c.66	1961-78	8-30-78	8.90	186
07363450	Varnell Creek near Rison, Ar.	Lat 33°56'12", long 92°10'31", in NW¼NE¼ sec.18, T.9 S., R.10 W., Cleveland County, at culvert on State Highway 35, 1.8 miles (2.9 km) southeast of Rison. Prior to 1972 published as Saline River tributary near Rison.	c.28	1964-78	11-30-77	4.69	5
07364030	L'Aigle Creek tributary near Hermitage, Ar.	Lat 33°24'48", long 92°12'33", in SE¼NW¼ sec.14, T.15 S., R.11 W., Bradley County, at culvert on State Highway 15, 3.3 miles (5.3 km) southwest of Hermitage. Prior to 1975 published as Eagle Creek tributary near Hermitage.	.36	1963-78	7-27-78	4.63	58
07364070	Bear Creek near Strong, Ar.	Lat 33°04'32", long 92°19'33", in NE¼SE¼ sec.10, T.19 S., R.12 W., Union County, at bridge on State Highway 129, 2.9 miles (4.7 km) southeast of Strong.	c5.62	1963-78	5- 7-78	13.12	400
07364110	Nevins Creek tributary near Pine Bluff, Ar.	Lat 34°10'08", long 92°05'12", in NW¼SE¼ sec.26, T.6 S., R.10 W., Jefferson County, at culvert on U.S. Highway 79, 6.0 miles (9.7 km) southwest of Pine Bluff. Prior to 1962 published as Bayou Bartholomew tributary near Pine Bluff.	c.75	1961-78	8-30-78	4.12	72
07364125	Cane Creek at Star City, Ar.	Lat 33°57'18", long 91°50'34", in SE¼SE¼ sec.5, T.9 S., R.7 W., Lincoln County, at bridge on State Highway 81, 0.9 mile (1.4 km) north of junction of State Highways 11 and 81, in Star City.	4.91	1962-78	11-30-77	6.37	275
07364165	Upper Cutoff Creek near Monticello, Ar.	Lat 33°44'20", long 91°44'51", in NW¼SW¼ sec.20, T.11 S., R.6 W., Drew County, at bridge on State Highway 83, 8.0 miles (12.9 km) north of Monticello.	c18.5	1963-78	5- 7-78	8.36	430
07364260	Hanks Creek near Hambrug, Ar.	Lat 33°10'12", long 91°49'40", in NW¼SE¼ sec.4, T.18 S., R.7 W., Ashley County, at bridge on State Highway 52, 4.3 miles (6.9 km) southwest of Hamburg.	c20.9	1962-78	5- 7-78	b10.44	1,280
07364550	Cany Creek tributary near El Dorado, Ar.	Lat 33°11'22", long 92°36'28", in NE¼NW¼ sec.1, T.18 S., R.15 W., Union County, at culvert on U.S. Highway 82, 3.5 miles (5.6 km) southeast of El Dorado.	c.13	1961-78	5- 7-78	8.77	110
07365900	Three Creeks near Three Creeks, Ar.	Lat 33°04'01", long 92°53'02", in NE¼NW¼ sec.20, T.19 S., R.17 W., Union County, at bridge on State Highway 15, 2.2 miles (3.5 km) southwest of Three Creeks.	c50.4	1956-71‡ 1972-78	5- 9-78	7.52	5,800
07367658	Cypress Creek Canal No. 19 tributary near Dumas, Ar.	Lat 33°51'47", long 91°28'46", in SE¼NW¼ sec.2, T.10 S., R.4 W., Desha County, at culvert on U.S. Highway 65, 1.5 miles (2.4 km) south of Dumas.	c.94	1961-78	7- 8-78	6.62	93

‡ Operated as a continuous-record gaging station.
b From floodmark.
c Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Red River basin--Continued					
07367670 (revised)	Wards Bayou tributary at Montrose, Ar.	Lat 33°18'15", long 91°29'37", in SE¼SE¼ sec.15, T.16 S., R.4 W., Ashley County, at culvert on U.S. Highway 165, 0.4 mile (0.6 km) north of junction of U.S. Highways 165 and 82 in Montrose.	c1.73	1961-78	5- 8-78	7.65	500
07367740	Camp Bayou near Parkdale, Ar.	Lat 33°06'55", long 91°31'31", in SE¼SW¼ sec.21, T.18 S., R.4 W., Ashley County, at culvert on State Highway 8, 1.3 miles (2.1 km) east of Parkdale.	c1.86	1963-78	5- 8-78	8.86	280

c Revised.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		St. Francis River basin				
Pemiscot Bayou	St. Francis River	Lat 35°51'30", long 90°02'48", in SW¼ sec.5, T.14 N., R.10 E., Mississippi County, at bridge on State Highway 119, 0.7 mi (1.1 km) north of Dell.	(a)	1974-77	12-13-77	32.0
					4-19-78	421
					7-13-78	79.0
		White River basin				
Crooked Creek	White River	Lat 36°14'36", long 92°50'12", in SW¼ sec.31, T.19 N., R.17 W., Marion County, at bridge on U.S. Highway 62, 0.7 mi (1.1 km) southeast of Pyatt.	207	1953-54, 1957-67d, 1974-77	12-19-77	166
					8-31-78	37.1
Crooked Creek	White River	Lat 36°13'23", long 92°40'47", in NW¼ NE¼ sec.9, T.18 N., R.16 W., Marion County, at bridge on State Highway 14 at Yellville.	(a)	-	4-27-78	222
					6- 7-78	947
					7-26-78	81.6
White River	Arkansas River	Lat 35°45'35", long 91°38'28", in NE¼ NW¼ sec.21, T.13 N., R.6 W., Independence County, at bridge on U.S. Highway 167 in Batesville.	11,070	1937-58‡ 1978b	3-21-78	11,500
					5-18-78	28,600
					6-12-78	7,800
					9-12-78	3,290
Black River	White River	Lat 36°14'11", long 90°52'52", in NE¼ NE¼ sec.5, T.18 N., R.2 E., Randolph County, 400 ft (122 m) north of State Highway 304, 4.8 mi (7.7 km) upstream from Current River, and 5.3 mi (8.5 km) east of Pocahontas.	(a)	1978b	3- 9-78	2,320
					5-31-78	884
					8-24-78	430
Fourche River	Black River	Lat 36°20'21", long 90°56'33", in NE¼ NW¼ sec.35, T.20 N., R.1 E., Randolph County, at bridge on State Highway 115, 5.6 mi (9.0 km) north of Pocahontas.	229	1965-70‡ 1971-78b	11- 2-77	1,250
					3- 7-78	1,940
					6- 1-78	84.4
					8-22-78	37.6
Spring River	Black River	Lat 36°20'00", long 91°30'30", in SW¼ SW¼ sec.34, T.20 N., R.5 W., Fulton County, at low-water bridge on county road, 1.8 mi (2.9 km) upstream from South Fork Spring River, and 2.2 mi (3.5 km) northwest of Hardy.	(a)	1975-76	4-28-78	752
					8-22-78	326
South Fork Spring River	Spring River	Lat 36°21'00", long 91°38'00", in NW¼ NW¼ sec.33, T.20 N., R.6 W., Fulton County, at bridge on State Highway 289, 0.2 mi (0.3 km) southeast of Saddle.	(a)	1974-77	4-28-78	181
					7-27-78	99.2
Black River	White River	Lat 35°45'51", long 91°17'40", in NW¼ SE¼ sec.15, T.13 N., R.3 W., Jackson County, on left bank 500 ft (152 m) downstream from State Highway 37 at Elgin Ferry.	8,418	1978b	6-12-78	6,370
					9-13-78	3,760
White River	Arkansas River	Lat 35°18'02", long 91°23'35", in SE¼ SE¼ sec.22, T.8 N., R.4 W., Woodruff County, on left bank of Taylor Bay, 0.5 mi (0.8 km) upstream from White River, 0.7 mi (1.1 km) upstream from bridge on U.S. Highway 64, and 1.5 mi (2.4 km) northwest of Augusta.	20,464	-	5-25-78	26,300
					7-25-78	12,700
White River	Arkansas River	Lat 35°07'45", long 91°27'00", in SW¼ SW¼ sec.20, T.6 N., R.4 W., on right bank at Georgetown.	22,387	1978b	5-10-78	49,100
					7-25-78	15,700
Bayou DeView	Cache River	Lat 35°47'36", long 90°50'18", in SW¼ SW¼ sec.36, T.14 N., R.2 E., Craighead County, at bridge on State Highway 226, 1.8 mi (2.9 km) northwest of Gibson.	(a)	1974-77	12-14-77	170
					3- 7-78	1,370
					5-30-78	63.0
					7-14-78	13.7

‡ Operated as a continuous-record gaging station.
a Not determined.
b Operated as a crest-stage partial-record station.
d Operated as a low-flow partial-record station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Arkansas River basin				
Little Sugar Creek	Big Sugar Creek	Lat 36°30'10", long 94°16'30", in SW¼ NE¼ sec.34, T.21 N., R.21 W., McDonald County, at bridge on U.S. Highway 71 at Caverna, Mo., and 0.1 mi (0.2 km) downstream from Bear Creek.	118	1971-77	11-16-77 2-22-78 5- 3-78 7-26-78	82.5 74.7 274 60.5
Butler Creek	Elk River	Lat 36°30'44", long 94°28'54", in NW¼ NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at county bridge about 500 ft (152 m) west of State Highway 59, 0.9 mi (1.4 km) north of State line along Highway 59, and 2.0 mi (3.2 km) northwest of Sulphur Springs.	34.9	1971-77	11-16-77 2-22-78 5- 3-78 7-26-78	51.2 31.0 160 *8.08
Illinois River	Arkansas River	Lat 36°06'06", long 94°20'42", in SE¼ sec.36, T.17 N., R.32 W., Washington County, at bridge on State Highway 16, 0.4 mi (0.6 km) downstream from Clear Creek, and 0.7 mi (1.1 km) southwest of Savoy.	167	1957-63d 1974-77	11-17-77 2-22-78 5- 4-78 7-26-78	218 117 768 *19.4
Flint Creek	Illinois River	Lat 36°20'45", long 94°35'32", in NE¼ SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 49, upstream from confluence with Little Flint Creek, and 3.0 mi (4.8 km) northwest of Siloam Springs.	34.0	1971-77	11-16-77 2-23-78 5- 3-78 7-27-78	144 25.7 76.0 28.5
Sager Creek	Flint Creek	Lat 36°11'50", long 94°35'00", in SE¼ NE¼ sec.24, T.20 N., R.25 E., Delaware County, Okla., at bridge on county road, 0.8 mi (1.3 km) west of State line, and 2.6 mi (4.2 km) northwest of Siloam Springs.	(a)	1971-77	11-16-77 2-23-78 5- 3-78 7-27-78	154 16.7 101 *11.8
Lee Creek	Arkansas River	Lat 35°42'12", long 94°19'36", in NW¼ SE¼ sec.19, T.12 N., R.31 W., Crawford County, at bridge on State Highway 220, 1.9 mi (3.1 km) northeast of Lee Creek.	(a)	-	2-13-78 5- 1-78	1,120 218
Cove Creek	Lee Creek	Lat 35°43'20", long 94°24'28", in SW¼ NW¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 mi (7.2 km) northwest of Lee Creek.	35.5	1951-70‡ 1971-78b	2-13-78 8- 8-78	407 c0.5
Cove Creek	Lee Creek	Lat 35°41'10", long 94°22'00", in SE¼ SW¼ sec.26, T.12 N., R.32 W., Crawford County, at low-water crossing on unimproved road, 0.7 mi (1.1 km) upstream from Lee Creek, and 1.0 mi (1.6 km) west of Lee Creek (town).	(a)	-	5- 1-78	359
Lee Creek	Arkansas River	Lat 35°38'45", long 94°23'36", in NW¼ SW¼ sec.10, T.11 N., R.32 W., Crawford County, at bridge on State Highway 59, at Natural Dam.	168	1957-64d 1971-74	2-13-78 5- 1-78	3,040 245
Frog Bayou	Arkansas River	Lat 35°31'32", long 94°16'18", in SW¼ SW¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy.	216	1951-70‡ 1971-78b	5- 8-78	2,710
Spadra Creek	Arkansas River	Lat 35°28'06", long 93°27'46", in NW¼ NE¼ sec.5, T.9 N., R.23 W., Johnson County, on right bank at Clarksville 0.2 mi (0.3 km) downstream from bridge on U.S. Highway 64.	61.1	1953-70‡ 1971-78b	3-29-78	156
Little Piney Creek	Piney Creek	Lat 35°26'58", long 93°20'17", in SW¼ NE¼ sec.9, T.9 N., R.22 W., Johnson County, on left bank 600 ft (183 m) upstream from State Highway 194 bridge 3.0 mi (4.8 km) east of Lamar.	154	1957-63d 1978b	3-29-78 5-11-78 8- 2-78	476 536 *1.58
Illinois Bayou	Arkansas River	Lat 35°27'58", long 93°02'28", in SE¼ SW¼ sec.32, T.10 N., R.19 W., Pope County, at bridge on county road 1.3 mi (2.1 km) north of Scottsville.	241	1948-70‡ 1971-78b	2-16-78	659

* Base flow.
‡ Operated as a continuous-record gaging station.
a Not determined.
b Operated as a crest-stage partial-record station.
c Estimated.
d Operated as a low-flow partial-record station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Arkansas River basin--continued				
West Fork Point Remove Creek	Point Remove Creek	Lat 35°19'25", long 92°52'22", in NE¼ SE¼ sec.23, T.8 N., R.18 W., Pope County, on right bank about 300 ft (91.4 m) upstream from State Highway 247 bridge, 0.4 mi (0.6 km) downstream from Hackers Creek, 5.5 mi (8.8 km) northwest of Hattieville.	222	1978b	3-30-78 6-20-78 9-13-78	707 35.2 *5.23
Dutch Creek	Petit Jean River	Lat 34°59'15", long 93°36'45", in SE¼ NW¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mi (0.3 km) north of Waltreak.	81.4	1945-75‡ 1976-78b	5- 8-78	1,160
Cadron Creek	Arkansas River	Lat 35°06'53", long 92°31'35", in NE¼ SE¼ sec.31, T.6 N., R.14 W., Faulkner County, about 600 ft (183 m) downstream from bridge on U.S. Highway 64, 4.0 mi (6.4 km) west of Conway.	752	1978b	3- 7-78 4-17-78 7-18-78 7-27-78	3,210 571 40.9 0
Fourche LaFave River	Arkansas River	Lat 34°57'23", long 92°59'04", in E½ NE¼ sec.35, T.4 N., R.19 W., Perry County, on right bank 30 ft (9.1 m) upstream from bridge on State Highway 155, 1.0 mi (1.6 km) south of Aplin.	957	1978b	3-16-78 6- 9-78 8-31-78	5,280 461 75.2
Fourche Creek	Arkansas River	Lat 34°38'53", long 92°26'20", in NE¼ SE¼ sec.7, T.1 S., R.13 W., Pulaski County, 30 ft (9.1 m) downstream from bridge on State Highway 5, 0.5 mi (0.8 km) east of Red Gate.	32.4	1978b	6-30-78	*1.18
Grassy Flat	Rock Creek	Lat 34°46'01", long 92°22'33", in SW¼ NW¼ 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	1978b	6-30-78 9-13-78	*0.10 280
Rock Creek	Fourche Creek	Lat 34°43'13", long 92°21'32", in NW¼ SW¼ sec.13, T.1 N., R.13 W., Pulaski County, at left bank just downstream from bridge at west 36th street in Little Rock.	20.5	1978b	6-30-78 9-13-78	*0.69 †22,500
Bayou Two Prairie	Bayou Meto	Lat 34°51'38", long 91°58'45", in SW¼ NW¼ sec.28, T.3 N., R.9 W., Lonoke County, at bridge on State Highway 89, 8.4 mi (13.5 km) south of Cabot.	84.9	1974-77	10-17-77 12-22-77 2-24-78 5-19-78	*0.56 45.0 104 31.2
		Red River basin				
Days Creek[e/]	Sulphur River	Lat 33°19'15", long 93°59'53", in NE¼ SE¼ sec.33, T.16 S., R.28 W., Miller County, at bridge on State Highway 237, 7.0 mi (11.3 km) south of Texarkana.	(a)	1973-77	4-11-78 5-22-78	33.9 24.2
Bodcau Creek	Red Chute Bayou	Lat 33°15'36", long 93°33'00", in SE¼ sec.14, T.17 S., R.24 W., Lafayette County, at bridge on State Highway 313, 6.7 mi (10.8 km) southeast of Lewisville.	(a)	1974-77	10-20-77 1-24-78 7-26-78	*0.87 564 *0.36
Little Missouri River	Ouachita River	Lat 34°18'41", long 93°53'58", in SW¼ sec.16, T.5 S., R.27 W., Pike County at bridge on State Highway 84, 3.3 mi (5.3 km) west of Langley.	66.5	1958-63d 1974-77	3-10-78 6- 1-78	302 45.7
Terre Rouge Creek	Little Missouri River	Lat 33°46'46", long 93°14'10", in SE¼ SW¼ sec.14, T.11 S., R.21 W., Nevada County, at bridge on State Highway 24, 9.0 mi (14.5 km) east of Prescott.	(a)	1958-63d	2-22-78	135
Tulip Creek	Ouachita River	Lat 33°51'44", long 92°45'02", in NE¼ NW¼ sec.16, T.10 S., R.16 W., Dallas County, at bridge on State Highway 128, 2.0 mi (3.2 km) southeast of Pine Grove.	(a)	1958-63, 1965-66d	2-24-78	60.9
Moro Creek	Ouachita River	Lat 33°32'38", long 92°19'00", in sec.35, T.13 S., R.12 W., Bradley-Calhoun County line, at bridge on State Highway 4, 4.0 mi (6.4 km) west of Banks.	374	1958-63d 1974-77	10-13-77 1- 5-78 2- 8-78 6-21-78	c*0.2 2.20 141 20.7

* Base flow.
† Peak flow.
‡ Operated as a continuous-record gaging station.
a Not determined.
b Operated as a crest-stage partial-record station.
c Estimated.
d Operated as a low-flow partial-record station.
e Operated as a stage station by Corps of Engineers.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Arkansas River basin--continued				
Hurricane Creek	Saline River	Lat 34°30'40", long 92°24'54", in SW¼ sec.28, T.2 S., R.13 W., Saline County, at crossing on county road, 200 ft (61 m) downstream from Brushy Creek, 1.5 mi (2.4 km) southwest of Sardis.	(a)	1974-77	2-23-78 5-10-78	92.2 186
L'Aigle Creek	Saline River	Lat 33°22'11", long 92°11'03", in SE¼ NE¼ sec.36, T.15 S., R.11 W., Bradley County, at bridge on county road, 2.1 mi (3.4 km) southeast of Ingalls.	(a)	-	2-23-78	54.2
Bayou Bartholomew	Ouachita River	Lat 34°06'24", long 91°54'06", in NW¼ sec.22, T.7 S., R.8 W., Jefferson County, at bridge on county road, 2.2 mi (3.4 km) south of Ladd.	(a)	1968, 1974-77	2-22-78 5-19-78	37.9 40.2
Bayou DeLoutre	Ouachita River	Lat 33°05'55", long 92°35'32", in SE¼ NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road, 8.5 mi (13.7 km) southeast of El-Dorado.	78.4	1959-64d, 1971-75, 1977	12- 7-77 1-25-78 4-12-78	33.2 226 73.6
Big Bayou	Boeuf River	Lat 33°23'20", long 91°25'30", in SE¼ sec.17, T.15 S., R.3 W., Chicot County, at bridge on State Highway 144, 2.5 mi (4.0 km) southeast of Jerome.	(a)	1974-75, 1977	10-13-77 3-28-78	0 17.0

a Not determined.
d Operated as a low-flow partial-record station.

Water-quality partial-record stations are particular sites where data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than monthly.

COOPERATION.--Part of the records furnished by Corps of Engineers

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN

361603093563500 BEAVER LAKE AT WAR EAGLE, AR (LAT 36 16 03 LONG 093 56 35)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
01...	1028	1028	.0	3.0	--	--	--	--	--	12	--
01...	1028	1028	1.5	3.0	100	7.7	4.5	55	31	--	12.8
JUN											
14...	1028	1028	.0	2.0	--	--	--	--	--	30	--
14...	1028	1028	1.0	2.0	162	7.7	20.5	1	3.0	--	7.7
SEP											
27...	1028	1028	.0	1.0	--	--	--	--	--	>12	--
27...	1028	1028	.5	1.0	240	8.1	18.0	2	1.6	--	10.4

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
01...	--	K73	--	--	--	--	--	--	--	--
01...	1.0	--	63	25	23	58	1.4	47	39	1.5
JUN										
14...	--	117	--	--	--	--	--	--	--	--
14...	1.0	--	73	1	27	68	1.4	88	72	2.8
SEP										
27...	--	K1	--	--	--	--	--	--	--	--
27...	1.0	--	120	11	46	115	1.5	--	110	1.7

361531094040901 BEAVER LAKE AT ROGERS WATER INTAKE, NEAR LOWELL, AR
(LAT 36 15 31 LONG 094 04 09)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
01...	1028	1028	.0	70	--	--	--	--	--	--	--
01...	1028	1028	14	70	116	7.4	3.0	23	20	--	13.0
01...	1028	1028	56	70	120	7.4	3.0	23	16	--	12.2
JUN											
14...	1028	1028	.0	90	--	--	--	--	--	58	--
14...	1028	1028	18	90	118	6.9	25.5	13	5.2	--	.8
14...	1028	1028	72	90	120	7.0	8.0	23	7.8	--	3.8
SEP											
27...	1028	1028	.0	65	--	--	--	--	--	76	--
27...	1028	1028	13	65	140	7.6	24.0	3	27	--	7.3
27...	1028	1028	52	65	182	7.1	15.0	100	28	--	.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

361531094040901 BEAVER LAKE AT ROGERS WATER INTAKE, NEAR LOWELL, AR--CONTINUED

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
MAR											
01...	--	K4	--	--	--	--	--	--	--	--	--
01...	1.5	--	58	15	20	50	2.0	1.3	53	0	43
01...	1.0	--	58	14	20	50	1.9	1.2	53	0	43
JUN											
14...	--	23	--	--	--	--	--	--	--	--	--
14...	1.6	--	68	23	25	62	1.4	1.5	55	0	45
14...	1.0	--	61	17	22	55	1.5	1.3	54	0	44
SEP											
27...	--	0	--	--	--	--	--	--	--	--	--
27...	.9	--	67	0	24	60	1.8	1.5	93	0	76
27...	1.3	--	75	5	27	68	1.9	1.6	86	0	71

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	3.4	11	4.2	.65	.12	1.5	1.6	2.3	10	.09	.06
01...	3.4	7.3	5.6	.52	.20	.34	.54	1.1	4.7	.09	.03
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	11	7.7	2.9	.39	.09	.19	.28	.67	3.0	.01	.01
14...	8.6	8.2	3.6	.77	.03	.32	.35	1.1	5.0	.04	.04
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	3.7	8.5	3.2	.01	.04	.30	.34	.35	1.6	.01	.01
27...	11	6.2	3.3	.01	.85	.24	1.1	1.1	4.9	.11	.08

DATE	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)
MAR										
01...	--	--	--	--	--	--	--	--	--	--
01...	350	0	0	6	660	10	60	.0	8	20
01...	270	1	0	8	440	8	70	.0	4	30
JUN										
14...	--	--	--	--	--	--	--	--	--	--
14...	150	1	10	5	200	5	80	.0	2	5
14...	40	1	30	160	440	18	140	.4	1	110
SEP										
27...	--	--	--	--	--	--	--	--	--	--
27...	150	0	10	8	70	1	70	.0	6	20
27...	270	6	0	1	4100	4	3600	.0	7	10

361656094043000 BEAVER LAKE AT MONTE NE, AR (LAT 36 16 56 LONG 094 04 30)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)
MAR										
01...	1028	1028	.0	--	--	--	--	--	--	--
01...	1028	1028	5.0	--	260	7.3	8.5	1	4.0	--
JUN										
14...	1028	1028	.0	16	--	--	--	--	--	46
14...	1028	1028	8.0	16	116	7.3	24.5	9	3.5	--
SEP										
27...	1028	1028	.0	5.0	--	--	--	--	--	55
27...	1028	1028	2.5	5.0	182	7.4	23.0	2	1.0	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

361656094043000 BEAVER LAKE AT MONTE NE, AR (LAT 36 16 56 LONG 094 04 30)--CONTINUED

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	BICAR-BONATE (MG/L AS HCO3) (00440)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
MAR										
01...	--	8	--	--	--	--	--	--	--	--
01...	11.0	--	130	12	49	120	1.2	140	110	11
JUN										
14...	--	4	--	--	--	--	--	--	--	--
14...	5.9	--	68	23	25	62	1.4	55	45	4.4
SEP										
27...	--	3	--	--	--	--	--	--	--	--
27...	9.0	--	77	4	28	70	1.6	--	73	5.6

362210094033800 BEAVER LAKE NEAR AVOCA, AR (LAT 36 22 10 LONG 094 03 38)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
MAR											
01...	1028	1028	.0	14	--	--	--	--	--	70	--
01...	1028	1028	7.0	14	144	7.8	3.0	5	2.2	--	14.0
JUN											
14...	1028	1028	.0	16	--	--	--	--	--	65	--
14...	1028	1028	8.0	16	114	8.1	26.0	6	1.7	--	9.0
SEP											
27...	1028	1028	.0	7.0	--	--	--	--	--	52	--
27...	1028	1028	3.5	7.0	136	8.0	24.5	5	1.6	--	9.8

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	PUTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
MAR											
01...	--	0	--	--	--	--	--	--	--	--	--
01...	1.3	--	77	13	28	70	1.7	1.6	78	0	64
JUN											
14...	--	7	--	--	--	--	--	--	--	--	--
14...	2.0	--	54	10	19	48	1.7	1.5	54	0	44
SEP											
27...	--	2	--	--	--	--	--	--	--	--	--
27...	2.1	--	62	4	22	55	1.7	1.3	71	0	58

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	2.0	4.6	4.2	.41	.03	.01	.04	.45	2.0	.03	.00
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	.7	7.2	3.1	.22	.03	.58	.61	.83	3.7	.01	.00
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	1.1	9.0	3.6	.00	.01	.33	.34	.34	1.5	.01	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362210094033800 BEAVER LAKE NEAR AVOCA, AR (LAT 36 22 10 LONG 094 03 38)--CONTINUED

DATE	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)
MAR										
01...	--	--	--	--	--	--	--	--	--	--
01...	90	0	10	6	190	6	30	.0	4	20
JUN										
14...	--	--	--	--	--	--	--	--	--	--
14...	90	0	0	30	70	7	40	.0	2	30
SEP										
27...	--	--	--	--	--	--	--	--	--	--
27...	70	0	10	1	160	5	60	.0	7	10

361957094010800 BEAVER LAKE AT HIGHWAY 12 BRIDGE, NEAR ROGERS, AR
(LAT 36 19 57 LONG 094 01 08)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
01...	1028	1028	.0	102	--	--	--	--	--	38	--
01...	1028	1028	20	102	108	7.7	2.5	23	10	--	13.8
01...	1028	1028	80	102	112	7.6	2.5	15	9.0	--	12.6
JUN											
14...	1028	1028	.0	115	--	--	--	--	--	55	--
14...	1028	1028	23	115	104	7.1	17.5	35	8.3	--	3.9
14...	1028	1028	92	115	122	7.1	7.0	11	4.2	--	6.1
SEP											
27...	1028	1028	.0	100	--	--	--	--	--	70	--
27...	1028	1028	20	100	132	7.5	24.0	5	1.1	--	7.8
27...	1028	1028	80	100	142	7.0	11.0	45	1.5	--	.4

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
MAR											
01...	--	K2	--	--	--	--	--	--	--	--	--
01...	1.0	--	54	11	19	48	1.7	1.4	53	0	43
01...	.6	--	54	9	19	48	1.7	--	55	0	45
JUN											
14...	--	4	--	--	--	--	--	--	--	--	--
14...	1.4	--	66	26	24	60	1.4	1.5	49	0	40
14...	.9	--	79	33	29	72	1.7	1.5	57	0	47
SEP											
27...	--	0	--	--	--	--	--	--	--	--	--
27...	.9	--	59	4	21	52	1.7	1.4	68	0	56
27...	1.0	--	62	5	22	55	1.8	1.3	70	0	57

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	1.7	5.0	4.5	.60	.02	.00	.02	.62	2.7	.06	.01
01...	2.2	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	6.2	7.4	2.9	.39	.04	1.2	1.2	1.6	7.0	.01	.00
14...	7.2	9.0	3.8	.72	.01	.16	.17	.89	3.9	.03	.03
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	3.4	8.6	3.0	.00	.01	.30	.31	.31	1.4	.00	.00
27...	11	8.2	3.1	.06	.29	.22	.51	.57	2.5	.04	.03

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

361957094010800 BEAVER LAKE AT HIGHWAY 12 BRIDGE, NEAR ROGERS, AR--CONTINUED

DATE	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)
MAR										
01...	--	--	--	--	--	--	--	--	--	--
01...	250	0	10	6	450	6	20	.0	4	20
01...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
14...	310	0	0	13	390	8	30	.0	2	20
14...	170	1	0	19	210	6	70	.0	4	20
SEP										
27...	--	--	--	--	--	--	--	--	--	--
27...	50	0	0	1	130	4	50	.0	9	10
27...	260	2	0	1	1100	4	3400	.0	8	10

362048094045700 BEAVER LAKE ON PRAIRIE CREEK NEAR ROGERS, AR
(LAT 36 20 48 LONG 094 04 57)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
01...	1028	1028	.0	9.0	--	--	--	--	--	--	--
01...	1028	1028	4.0	9.0	220	7.8	1.5	2	4.0	--	12.2
JUN											
14...	1028	1028	.0	12	--	--	--	--	--	53	--
14...	1028	1028	6.0	12	132	7.4	25.0	5	2.9	--	6.2
SEP											
27...	1028	1028	.0	5.0	--	--	--	--	--	44	--
27...	1028	1028	2.5	5.0	142	8.1	24.5	1	2.1	--	10.2

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
01...	--	6	--	--	--	--	--	--	--	--
01...	.8	--	120	7	46	120	1.6	140	110	3.6
JUN										
14...	--	K3	--	--	--	--	--	--	--	--
14...	2.6	--	73	25	27	68	1.4	59	48	3.8
SEP										
27...	--	0	--	--	--	--	--	--	--	--
27...	1.6	--	62	4	22	55	1.7	--	58	.9

362925092471500 BULL SHOALS LAKE NEAR BUCK CREEK, AR (LAT 36 29 25 LONG 092 47 15)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
16...	1028	1028	.0	140	--	--	--	--	--	108	--
16...	1028	1028	28	140	273	8.3	2.5	5	.90	--	12.8
16...	1028	1028	112	140	271	8.3	2.5	5	2.9	--	12.6
JUN											
19...	1028	1028	.0	140	--	--	--	--	--	174	--
19...	1028	1028	28	140	280	8.0	16.0	2	.40	--	9.0
19...	1028	1028	112	140	260	7.2	10.0	2	.30	--	6.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362925092471500 BULL SHOALS LAKE NEAR BUCK CREEK, AR--CONTINUED

DATE	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.4	--	150	19	39	98	13	1.5	160	0	131
16...	.4	--	140	21	38	95	12	1.0	150	0	120
JUN											
19...	--	0	--	--	--	--	--	--	--	--	--
19...	1.5	--	140	20	39	98	11	1.5	150	0	120
19...	1.3	--	140	16	40	100	9.5	1.6	150	0	120

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	1.3	5.2	4.3	.29	.01	.23	.24	.53	2.3	.01	.00
16...	1.2	12	4.4	.26	.00	.02	.02	.28	1.2	.02	.00
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	2.4	8.1	4.9	.24	.00	.25	.25	.49	2.2	.01	.00
19...	15	8.6	5.3	.57	.01	.21	.22	.79	3.5	.01	.00

DATE	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)
MAR										
16...	--	--	--	--	--	--	--	--	--	--
16...	40	0	20	5	10	5	10	.0	7	10
16...	50	1	10	3	100	6	20	.0	2	30
JUN										
19...	--	--	--	--	--	--	--	--	--	--
19...	5	0	0	13	0	10	0	.0	5	20
19...	3	1	0	14	60	7	5	.0	2	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362530992420001 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR (FISH PEN)
(LAT 36 25 30 LONG 092 42 00)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
MAR , 1978												
17...	1028	1028	.0	240	8.3	3.0	13.0	--	--	--	--	--
17...	1028	1028	10	240	8.3	3.0	13.0	--	--	--	--	--
17...	1028	1028	16	--	--	--	--	--	--	.6	14	--
17...	1028	1028	20	240	8.3	3.0	13.0	--	--	--	--	--
17...	1028	1028	30	240	8.0	3.0	12.8	--	--	--	--	--
17...	1028	1028	40	240	8.0	3.0	12.6	--	--	--	--	--
17...	1028	1028	50	240	7.9	3.5	12.6	--	--	--	--	--
17...	1028	1028	60	250	8.2	3.5	12.6	--	--	--	--	--
17...	1028	1028	64	--	--	--	--	--	--	.5	3	--
17...	1028	1028	70	250	8.3	4.0	12.6	--	--	--	--	--
17...	1028	1028	80	250	8.3	4.0	12.6	--	--	--	--	--
JUN												
20...	1028	1028	.0	260	8.8	24.5	9.0	166	4.2	--	--	8
20...	1028	1028	10	260	8.8	24.5	9.0	--	--	--	--	--
20...	1028	1028	16	260	8.8	24.5	8.8	--	--	1.5	11	--
20...	1028	1028	20	260	8.8	24.5	8.8	--	--	--	--	--
20...	1028	1028	24	260	8.8	22.5	10.0	--	--	--	--	--
20...	1028	1028	27	260	8.5	21.5	9.6	--	--	--	--	--
20...	1028	1028	30	260	8.5	17.5	8.8	--	--	--	--	--
20...	1028	1028	40	260	8.1	15.0	7.6	--	--	--	--	--
20...	1028	1028	50	260	7.8	14.0	4.6	--	--	--	--	--
20...	1028	1028	60	260	7.5	12.5	2.0	--	--	--	--	--
20...	1028	1028	64	310	7.5	12.5	.4	--	--	2.9	11	--
20...	1028	1028	70	310	7.4	12.0	.4	--	--	--	--	--
20...	1028	1028	80	310	7.2	12.0	.4	--	--	--	--	--

362530092420000 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR (LOG BOOM)
(LAT 36 25 30 LONG 092 42 00)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
17...	1028	1028	.0	82	240	7.8	3.0	--	--	152	12.6
17...	1028	1028	10	--	240	8.0	3.0	--	--	--	12.8
17...	1028	1028	17	82	263	8.0	--	4	.80	--	--
17...	1028	1028	20	--	240	8.3	3.0	--	--	--	12.8
17...	1028	1028	30	--	240	8.3	3.5	--	--	--	12.8
17...	1028	1028	40	--	240	8.3	3.5	--	--	--	12.8
17...	1028	1028	50	--	240	8.3	3.5	--	--	--	12.8
17...	1028	1028	60	--	240	8.3	3.5	--	--	--	12.8
17...	1028	1028	68	82	264	7.9	--	4	.80	--	--
17...	1028	1028	70	--	250	8.2	3.5	--	--	--	12.8
17...	1028	1028	80	--	260	8.0	4.0	--	--	--	12.4
17...	1028	1028	82	--	260	8.0	4.0	--	--	--	12.2
JUN											
20...	1028	1028	.0	90	240	8.8	24.0	--	--	138	8.6
20...	1028	1028	10	--	240	8.8	24.0	--	--	--	8.8
20...	1028	1028	18	90	240	8.8	24.0	1	.50	--	8.8
20...	1028	1028	20	--	240	8.8	24.0	--	--	--	8.8
20...	1028	1028	25	--	240	8.8	21.0	--	--	--	10.8
20...	1028	1028	28	--	240	8.8	18.5	--	--	--	10.4
20...	1028	1028	30	--	240	8.6	17.5	--	--	--	10.6
20...	1028	1028	40	--	260	8.1	15.0	--	--	--	8.8
20...	1028	1028	50	--	260	7.8	14.0	--	--	--	6.4
20...	1028	1028	60	--	260	7.8	13.0	--	--	--	2.0
20...	1028	1028	70	--	260	7.8	12.0	--	--	--	.8
20...	1028	1028	72	90	260	7.5	12.0	3	.50	--	.1
20...	1028	1028	80	--	260	7.4	12.0	--	--	--	.1
20...	1028	1028	90	--	300	7.2	11.0	--	--	--	.1

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362530092420000 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR (LOG BOOM)--CONTINUED

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.6	--	140	17	35	88	12	1.7	150	0	123
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.7	--	140	17	35	88	12	1.5	150	0	123
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
20...	--	5	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	2.0	--	140	12	34	85	13	1.4	150	2	130
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	2.6	--	150	14	40	100	11	1.6	160	0	130
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	2.4	5.0	3.5	.20	.04	.18	.22	.42	1.9	.02	.01
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	3.0	5.3	3.6	.22	.01	.13	.14	.36	1.6	.02	.00
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.4	8.3	4.0	.05	.00	.20	.20	.25	1.1	.01	.00
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	8.1	7.8	4.7	.02	.30	.46	.76	.78	3.5	.07	.04
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362530092420000 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR (LOG BOOM)--CONTINUED

DATE	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)
MAR										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	30	1	10	5	0	--	20	.6	--	20
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	30	1	10	4	10	2	10	.0	6	20
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	4	0	0	12	60	9	0	.0	2	20
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	3	0	0	13	120	8	220	.0	5	10
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--

362530092420002 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR (MOUTH)
(LAT 36 25 30 LONG 092 42 00)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
MAR , 1978												
17...	1028	1028	.0	240	8.2	3.0	12.8	--	--	--	--	--
17...	1028	1028	10	240	8.3	3.0	12.8	--	--	--	--	--
17...	1028	1028	20	240	8.3	3.0	12.6	--	--	--	--	--
17...	1028	1028	28	--	--	--	--	--	--	.5	6	--
17...	1028	1028	30	240	8.3	3.0	12.8	--	--	--	--	--
17...	1028	1028	40	240	8.3	3.0	12.8	--	--	--	--	--
17...	1028	1028	50	240	8.3	3.0	12.8	--	--	--	--	--
17...	1028	1028	60	250	8.3	3.0	12.8	--	--	--	--	--
17...	1028	1028	70	250	8.3	3.0	12.8	--	--	--	--	--
17...	1028	1028	80	250	8.3	3.5	12.6	--	--	--	--	--
17...	1028	1028	90	250	8.3	3.5	12.6	--	--	--	--	--
17...	1028	1028	100	250	8.3	3.5	12.6	--	--	--	--	--
17...	1028	1028	110	250	8.3	3.5	12.6	--	--	--	--	--
17...	1028	1028	112	--	--	--	--	--	--	.5	3	--
17...	1028	1028	120	250	8.3	3.5	12.2	--	--	--	--	--
17...	1028	1028	130	250	8.3	3.5	12.0	--	--	--	--	--
17...	1028	1028	134	250	8.3	3.5	12.0	--	--	--	--	--
JUN												
20...	1028	1028	.0	260	9.0	25.0	8.9	174	4.4	--	--	1
20...	1028	1028	10	260	9.0	24.5	8.9	--	--	--	--	--
20...	1028	1028	20	260	9.0	22.5	10.4	--	--	--	--	--
20...	1028	1028	25	260	9.1	18.0	11.8	--	--	--	--	--
20...	1028	1028	30	260	8.5	15.0	10.2	--	--	2.4	4	--
20...	1028	1028	40	260	7.8	9.0	7.2	--	--	--	--	--
20...	1028	1028	50	260	8.2	13.0	7.8	--	--	--	--	--
20...	1028	1028	60	260	8.1	12.5	7.0	--	--	--	--	--
20...	1028	1028	70	260	8.1	12.0	7.0	--	--	--	--	--
20...	1028	1028	80	260	8.0	12.0	7.0	--	--	--	--	--
20...	1028	1028	90	260	8.0	11.0	7.0	--	--	--	--	--
20...	1028	1028	100	260	8.0	10.5	7.2	--	--	--	--	--
20...	1028	1028	110	260	8.0	10.5	7.4	--	--	--	--	--
20...	1028	1028	120	260	7.8	9.0	7.2	--	--	1.9	18	--
20...	1028	1028	130	260	7.8	8.0	4.0	--	--	--	--	--
20...	1028	1028	140	260	7.8	7.5	4.0	--	--	--	--	--
20...	1028	1028	150	260	7.8	7.0	5.0	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362830092374400 BULL SHOALS LAKE ABOVE PINE BRANCH AT INDIAN POINT, AR
(LAT 36 28 30 LONG 092 37 44)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
17...	1028	1028	.0	144	--	--	--	--	--	168
17...	1028	1028	29	144	250	8.1	3.5	3	.50	--
17...	1028	1028	115	144	240	8.0	3.5	3	.70	--
JUN										
19...	1028	1028	.0	90	--	--	--	--	--	210
19...	1028	1028	18	90	272	8.4	24.0	2	.40	--
19...	1028	1028	72	90	260	7.5	12.0	4	.30	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
17...	--	0	--	--	--	--	--	--	--	--
17...	12.4	--	140	11	37	92	12	160	130	2.0
17...	12.5	--	160	16	39	98	14	170	140	2.7
JUN										
19...	--	0	--	--	--	--	--	--	--	--
19...	8.1	--	150	6	35	88	14	170	140	1.1
19...	7.5	--	140	17	39	98	11	150	120	7.6

362300092365800 BULL SHOALS LAKE AT JIMMIE CREEK NEAR BULL SHOALS, AR
(LAT 36 23 00 LONG 092 36 58)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
17...	1028	1028	.0	130	--	--	--	--	--	174
17...	1028	1028	26	130	240	8.0	3.5	2	.50	--
17...	1028	1028	104	130	120	8.0	3.5	--	--	--
JUN										
20...	1028	1028	.0	80	--	--	--	--	--	186
20...	1028	1028	16	80	260	8.8	22.5	2	.50	--
20...	1028	1028	64	80	260	8.2	12.5	2	.40	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
17...	--	0	--	--	--	--	--	--	--	--
17...	12.2	--	150	22	40	100	11	150	120	2.4
17...	12.0	--	130	--	35	88	11	--	--	--
JUN										
20...	--	0	--	--	--	--	--	--	--	--
20...	10.0	--	140	16	36	90	12	150	120	.4
20...	7.4	--	150	17	38	95	13	160	130	1.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362332092321000 BULL SHOALS LAKE ON HOWARD CREEK NEAR LAKEVIEW, AR
(LAT 36 23 32 LONG 092 32 10)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
17...	1028	1028	.0	80	--	--	--	--	--	192
17...	1028	1028	16	80	240	8.0	4.0	2	1.0	--
17...	1028	1028	64	80	240	8.0	4.0	2	.60	--
JUN										
20...	1028	1028	.0	145	--	--	--	--	--	198
20...	1028	1028	39	145	260	8.2	14.5	2	.30	--
20...	1028	1028	106	145	260	7.7	9.5	2	.20	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
17...	--	0	--	--	--	--	--	--	--	--
17...	12.3	--	130	10	35	88	11	150	120	2.4
17...	12.3	--	140	12	36	90	11	150	120	2.4
JUN										
20...	--	1	--	--	--	--	--	--	--	--
20...	7.9	--	140	11	37	92	12	160	130	1.6
20...	7.0	--	150	15	37	92	13	160	130	5.1

362407092191500 NORFORK LAKE ON PIGEON CREEK NEAR MOUNTAIN HOME, AR
(LAT 36 24 07 LONG 092 19 15)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
15...	1028	1028	.0	53	--	--	--	--	--	71
15...	1028	1028	11	53	360	8.0	5.0	2	2.4	--
15...	1028	1028	42	53	360	8.2	4.0	2	1.0	--
JUN										
16...	1028	1028	.0	62	--	--	--	--	--	118
16...	1028	1028	12	62	300	9.1	25.5	2	.60	--
16...	1028	1028	50	62	320	8.0	15.0	3	1.9	--
SEP										
29...	1028	1028	.0	50	--	--	--	--	--	79
29...	1028	1028	10	50	300	8.5	24.5	1	1.1	--
29...	1028	1028	40	50	320	8.0	23.5	1	6.6	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
15...	--	0	--	--	--	--	--	--	--	--
15...	12.2	--	210	18	43	110	24	230	190	3.7
15...	12.6	--	210	16	44	110	25	240	200	2.4
JUN										
16...	--	21	--	--	--	--	--	--	--	--
16...	9.5	--	170	11	37	92	20	200	160	.3
16...	5.5	--	190	13	38	95	22	210	170	3.4
SEP										
29...	--	K6	--	--	--	--	--	--	--	--
29...	8.1	--	170	24	35	88	21	--	150	.9
29...	4.2	--	170	24	35	88	21	--	150	2.9

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362230092143700 NORFORK LAKE AT HENDERSON, AR (LAT 36 22 30 LONG 092 14 37)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
MAR											
15...	1028	1028	.0	90	--	--	--	--	--	152	--
15...	1028	1028	18	90	348	7.5	3.0	2	.60	--	13.2
15...	1028	1028	72	90	348	7.7	3.0	1	.70	--	13.0
JUN											
16...	1028	1028	.0	120	--	--	--	--	--	152	--
16...	1028	1028	24	120	320	8.4	18.5	3	.60	--	7.4
16...	1028	1028	96	120	320	8.0	7.5	2	.80	--	6.2
SEP											
29...	1028	1028	.0	115	--	--	--	--	--	115	--
29...	1028	1028	23	115	300	8.5	24.5	3	.70	--	8.3
29...	1028	1028	92	115	360	7.4	12.0	4	6.8	--	.5

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED, (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
MAR											
15...	--	<1	--	--	--	--	--	--	--	--	--
15...	.8	--	190	13	38	95	24	1.4	220	0	180
15...	.8	--	190	13	38	95	24	1.4	220	0	180
JUN											
16...	--	0	--	--	--	--	--	--	--	--	--
16...	1.6	--	180	9	36	90	21	1.3	200	2	170
16...	1.4	--	190	9	38	95	23	1.4	220	0	180
SEP											
29...	--	1	--	--	--	--	--	--	--	--	--
29...	.8	--	170	10	33	82	22	1.4	190	4	160
29...	.7	--	190	11	42	105	21	1.4	220	0	180

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	11	3.9	2.8	.36	.00	.14	.14	.50	2.2	.07	.00
15...	7.0	4.3	2.8	.36	.00	.15	.15	.51	2.3	.07	.00
JUN											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	1.3	3.3	2.9	.36	.04	.30	.34	.70	3.1	.00	.00
16...	3.5	4.1	2.9	.41	.01	.52	.53	.94	4.2	.00	.00
SEP											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	1.0	6.8	2.7	.01	.00	2.0	2.0	2.0	8.9	.01	.00
29...	3.4	5.8	2.8	.02	.24	.25	.53	.55	2.4	.03	.00

DATE	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)
MAR										
15...	--	--	--	--	--	--	--	--	--	--
15...	50	0	0	5	0	5	10	.0	5	20
15...	30	1	30	5	0	6	20	.0	8	10
JUN										
16...	--	--	--	--	--	--	--	--	--	--
16...	60	1	0	31	20	8	20	.0	0	40
16...	60	1	5	9	10	4	70	.0	0	20
SEP										
29...	--	--	--	--	--	--	--	--	--	--
29...	30	0	0	2	60	0	0	.0	10	10
29...	70	2	0	2	1300	0	110	.0	9	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

362007092170400 NORFORK LAKE ON FALL CREEK, WEST OF MOUNTAIN HOME, AR
(LAT 36 20 07 LONG 092 17 04)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
15...	1028	1028	.0	13	--	--	--	--	--	9.0
15...	1028	1028	3.0	13	301	8.1	5.5	40	38	--
15...	1028	1028	10	13	300	7.8	5.5	17	33	--
JUN										
16...	1028	1028	.0	22	--	--	--	--	--	90
16...	1028	1028	4.0	22	320	8.9	25.5	2	1.0	--
16...	1028	1028	18	22	320	8.9	21.5	5	4.3	--
SEP										
29...	1028	1028	.0	15	--	--	--	--	--	90
29...	1028	1028	3.0	15	300	8.5	24.5	1	1.2	--
29...	1028	1028	12	15	300	8.4	24.0	3	2.7	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
15...	--	200	--	--	--	--	--	--	--	--
15...	12.0	--	180	34	38	95	21	180	150	2.3
15...	11.6	--	180	16	36	90	22	200	160	5.1
JUN										
16...	--	K390	--	--	--	--	--	--	--	--
16...	8.7	--	180	16	36	90	22	200	160	.4
16...	2.7	--	190	13	38	95	22	210	170	.4
SEP										
29...	--	47	--	--	--	--	--	--	--	--
29...	7.9	--	170	16	32	80	21	--	150	.9
29...	7.5	--	170	0	34	85	20	--	150	1.1

361627092123000 NORFORK LAKE NEAR HAND, AR (LAT 36 16 27 LONG 092 12 30)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
15...	1028	1028	.0	135	--	--	--	--	--	222
15...	1028	1028	27	135	310	8.0	3.5	1	.60	--
15...	1028	1028	108	135	310	8.5	3.5	2	.50	--
JUN										
16...	1028	1028	.0	140	--	--	--	--	--	162
16...	1028	1028	28	140	320	8.9	17.5	2	.20	--
16...	1028	1028	112	140	320	8.3	6.5	2	.30	--
SEP										
29...	1028	1028	.0	120	--	--	--	--	--	127
29...	1028	1028	24	120	300	8.6	24.5	3	1.0	--
29...	1028	1028	96	120	320	7.4	11.0	1	3.5	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
15...	--	0	--	--	--	--	--	--	--	--
15...	12.8	--	180	18	35	88	23	200	160	3.2
15...	12.8	--	190	16	36	90	24	210	170	1.1
JUN										
16...	--	93	--	--	--	--	--	--	--	--
16...	10.4	--	170	7	34	85	21	200	160	.4
16...	8.0	--	180	11	34	85	22	200	160	1.6
SEP										
29...	--	K1	--	--	--	--	--	--	--	--
29...	8.6	--	160	5	33	82	20	--	160	.8
29...	.7	--	180	10	39	98	20	--	170	13

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

353715092111600 GREERS FERRY LAKE AT BRUSH CREEK, AR (LAT 35 37 15 LONG 092 11 16)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
13...	1028	1028	.0	60	--	--	--	--	--	48	--
13...	1028	1028	12	60	58	7.3	6.5	10	7.0	--	12.2
13...	1028	1028	48	60	62	7.1	5.0	27	16	--	12.0
JUN											
27...	1028	1028	.0	46	--	--	--	--	--	--	--
27...	1028	1028	9.0	46	64	7.5	29.5	2	.60	--	8.2
27...	1028	1028	37	46	60	6.6	16.0	7	4.7	--	2.6

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
MAR											
13...	--	0	--	--	--	--	--	--	--	--	--
13...	.9	--	27	4	9.0	22	1.0	.6	28	0	23
13...	.7	--	28	4	9.4	24	1.0	.7	29	0	24
JUN											
27...	--	<2	--	--	--	--	--	--	--	--	--
27...	2.2	--	27	7	8.8	22	1.3	.8	24	0	20
27...	1.9	--	28	7	9.2	23	1.3	.8	26	0	21

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	2.2	3.2	1.8	.71	.01	.03	.04	.75	3.3	.02	.01
13...	3.7	3.8	2.0	.12	.01	.62	.63	.75	3.3	.04	.01
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	1.2	4.1	1.7	.02	.01	.05	.06	.08	.35	.01	.00
27...	10	4.5	1.4	.10	.03	.00	.01	.11	.49	.03	.00

DATE	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)
MAR										
13...	--	--	--	--	--	--	--	--	--	--
13...	170	0	10	4	260	7	20	.0	6	10
13...	50	1	10	2	500	7	20	.0	5	10
JUN										
27...	--	--	--	--	--	--	--	--	--	--
27...	30	0	0	2	130	3	30	.0	3	20
27...	150	0	0	2	440	3	40	.0	3	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

353624092301400 GREERS FERRY LAKE ABOVE HILL CREEK, AR (LAT 35 36 24 LONG 092 30 14)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
14...	1028	1028	.0	80	--	--	--	--	--	38
14...	1028	1028	16	80	40	6.9	5.0	12	7.1	--
14...	1028	1028	64	80	50	7.2	3.5	12	7.0	--
JUN										
27...	1028	1028	.0	80	--	--	--	--	--	108
27...	1028	1028	16	80	48	7.0	27.5	1	.50	--
27...	1028	1028	64	80	46	6.5	9.0	12	7.1	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L AS CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
14...	--	0	--	--	--	--	--	--	--	--
14...	12.0	--	17	4	5.3	13	.9	16	13	3.2
14...	11.8	--	23	4	7.5	19	1.0	23	19	2.3
JUN										
27...	--	K7	--	--	--	--	--	--	--	--
27...	7.6	--	19	1	5.8	14	1.0	22	18	3.5
27...	1.0	--	20	5	6.4	--	1.0	18	15	9.1

353506092253200 GREERS FERRY LAKE NEAR CLINTON, AR (LAT 35 35 06 LONG 092 25 32)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
MAR											
14...	1028	1028	.0	11	--	--	--	--	--	--	--
14...	1028	1028	5.5	11	22	6.6	7.0	45	33	--	11.6
JUN											
28...	1028	1028	.0	9.0	--	--	--	--	--	42	--
28...	1028	1028	4.5	9.0	42	6.6	31.0	5	4.8	--	7.3

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L AS CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
MAR											
14...	--	140	--	--	--	--	--	--	--	--	--
14...	1.4	--	9	7	2.4	6	.8	.8	3	0	2
JUN											
28...	--	K800	--	--	--	--	--	--	--	--	--
28...	3.0	--	25	13	7.6	19	1.4	1.0	14	0	11

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	1.2	6.4	1.4	.08	.03	.28	.31	.39	1.7	.04	.01
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	5.6	2.9	2.2	.16	.03	.16	.19	.35	1.6	.05	.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WHITE RIVER BASIN--CONTINUED

353506092253200 GREERS FERRY LAKE NEAR CLINTON, AR--CONTINUED

DATE	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)
MAR										
14...	--	--	--	--	--	--	--	--	--	--
14...	620	1	10	5	1100	10	60	.0	6	20
JUN										
28...	--	--	--	--	--	--	--	--	--	--
28...	120	2	10	6	690	4	210	.1	4	20

353127092250400 GREERS FERRY LAKE NEAR CHOCTAW, AR (LAT 35 31 27 LONG 092 25 04)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
14...	1028	1028	.0	13	--	--	--	--	--	17
14...	1028	1028	2.5	13	24	6.4	7.0	45	20	--
14...	1028	1028	10	13	24	6.4	7.0	80	70	--
JUN										
28...	1028	1028	.0	8.0	--	--	--	--	--	36
28...	1028	1028	4.0	8.0	34	6.7	29.0	2	4.0	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
14...	--	160	--	--	--	--	--	--	--	--
14...	11.2	--	7	3	1.5	4	.9	6	5	3.8
14...	11.2	--	9	3	2.1	5	.9	7	6	4.5
JUN										
28...	--	18	--	--	--	--	--	--	--	--
28...	--	--	12	5	3.1	7	1.0	8	7	2.6

353012092053200 GREERS FERRY LAKE NEAR EDEN ISLE, AR (LAT 35 30 12 LONG 092 05 32)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
MAR										
13...	1028	1028	.0	75	--	--	--	--	--	86
13...	1028	1028	15	75	36	6.7	4.0	4	2.5	--
13...	1028	1028	60	75	38	6.3	4.0	3	2.3	--
JUN										
27...	1028	1028	.0	77	--	--	--	--	--	138
27...	1028	1028	11	77	42	8.0	27.5	1	.40	--
27...	1028	1028	62	77	44	7.5	10.5	2	9.6	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
MAR										
13...	--	0	--	--	--	--	--	--	--	--
13...	14.0	--	16	6	4.8	12	.9	12	10	3.8
13...	14.0	--	15	5	4.6	12	.9	12	10	9.6
JUN										
27...	--	0	--	--	--	--	--	--	--	--
27...	7.4	--	21	11	6.9	17	1.0	13	11	.2
27...	7.8	--	16	6	4.7	12	1.0	12	10	.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN

350737093483500 BLUE MOUNTAIN LAKE AT THE NARROWS, AR (LAT 35 07 37 LONG 093 48 35)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB											
28...	1028	1028	.0	4.0	--	--	--	--	--	--	--
28...	1028	1028	2.0	4.0	74	6.9	5.0	160	130	--	10.8
JUN											
13...	1028	1028	.0	2.0	--	--	--	--	--	12	--
13...	1028	1028	1.0	2.0	84	7.1	25.0	45	30	--	6.7
SEP											
26...	1028	1028	.0	1.5	--	--	--	--	--	>6.0	--
26...	1028	1028	.7	1.5	138	7.4	22.5	17	6.1	--	8.1

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
FEB										
28...	--	K830	--	--	--	--	--	--	--	--
28...	2.4	--	21	10	4.1	10	2.6	13	11	2.6
JUN										
13...	--	K113	--	--	--	--	--	--	--	--
13...	1.2	--	24	2	4.6	12	3.0	27	22	3.4
SEP										
26...	--	41	--	--	--	--	--	--	--	--
26...	1.8	--	34	0	6.0	15	4.5	--	48	3.7

350441093490500 BLUE MOUNTAIN LAKE AT SUGAR GROVE, AR (LAT 35 04 41 LONG 093 49 05)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
FEB										
28...	1028	1028	.0	4.0	--	--	--	--	--	--
28...	1028	1028	2.0	4.0	34	6.6	5.0	55	20	--
JUN										
13...	1028	1028	.0	2.0	--	--	--	--	--	--
13...	1028	1028	1.0	2.0	46	6.9	24.0	25	4.5	--
SEP										
26...	1028	1028	.0	.50	--	--	--	--	--	>6.0
26...	1028	1028	.2	.50	56	7.1	25.0	8	3.3	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
FEB										
28...	--	78	--	--	--	--	--	--	--	--
28...	11.8	--	9	5	1.5	4	1.2	5	4	2.0
JUN										
13...	--	25	--	--	--	--	--	--	--	--
13...	7.1	--	13	0	2.5	6	1.6	16	13	3.2
SEP										
26...	--	K24	--	--	--	--	--	--	--	--
26...	9.3	--	12	0	2.0	5	1.8	--	17	2.7

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

350550093480800 BLUE MOUNTAIN LAKE NEAR SUGAR GROVE, AR (LAT 35 05 50 LONG 093 48 08)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB											
28...	1028	1028	.0	12	--	--	--	--	--	8.0	--
28...	1028	1028	3.0	12	80	7.0	5.0	150	100	--	10.6
28...	1028	1028	9.0	12	80	7.0	5.0	150	100	--	10.6
JUN											
13...	1028	1028	.0	10	--	--	--	--	--	12	--
13...	1028	1028	2.0	10	86	6.5	24.5	27	25	--	9.1
13...	1028	1028	8.0	10	74	6.5	22.5	45	28	--	3.4
SEP											
26...	1028	1028	.0	10	--	--	--	--	--	24	--
26...	1028	1028	2.0	10	94	6.6	24.0	10	5.0	--	3.1
26...	1028	1028	8.0	10	84	6.4	24.0	10	7.4	--	2.0

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
FEB											
28...	--	780	--	--	--	--	--	--	--	--	--
28...	2.2	--	23	10	3.9	10	3.1	2.0	15	0	12
28...	2.1	--	22	10	4.1	10	2.9	1.9	15	0	12
JUN											
13...	--	86	--	--	--	--	--	--	--	--	--
13...	3.2	--	28	4	5.7	14	3.4	2.0	29	0	24
13...	1.2	--	22	1	3.4	10	3.0	1.9	25	0	21
SEP											
26...	--	43	--	--	--	--	--	--	--	--	--
26...	3.0	--	27	0	5.0	12	3.5	2.1	39	0	32
26...	2.2	--	27	0	5.0	12	3.5	2.1	37	0	30

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	2.4	15	6.2	.30	.06	.33	.39	.69	3.1	.18	.05
28...	2.4	14	6.2	.30	.07	.34	.41	.71	3.1	.17	.07
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	15	10	5.3	.02	.01	.57	.58	.60	2.7	.02	.01
13...	13	10	5.1	.20	.06	.94	1.0	1.2	5.3	.02	.02
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	16	7.4	4.7	.01	.10	.63	.73	.74	3.3	.05	.01
26...	24	6.8	4.4	.01	.12	.54	.66	.67	3.0	.05	.01

DATE	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)
FEB										
28...	--	--	--	--	--	--	--	--	--	--
28...	2900	1	0	8	5000	13	180	.0	10	30
28...	3800	1	10	8	4600	13	170	.0	4	60
JUN										
13...	--	--	--	--	--	--	--	--	--	--
13...	20	1	0	5	970	5	150	.1	3	10
13...	40	2	0	8	1600	6	280	.1	4	20
SEP										
26...	--	--	--	--	--	--	--	--	--	--
26...	120	2	0	1	1100	5	610	.0	9	10
26...	90	1	0	2	1100	4	580	.0	7	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

350614093422600 BLUE MOUNTAIN LAKE AT ASHLEY CREEK NEAR WAVELAND, AR
(LAT 35 06 14 LONG 093 42 26)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)
FEB										
28...	1028	1028	.0	4.0	--	--	--	--	--	6.0
28...	1028	1028	2.0	4.0	92	6.9	4.0	160	100	--
JUN										
13...	1028	1028	.0	5.0	--	--	--	--	--	24
13...	1028	1028	2.5	5.0	68	7.3	26.0	30	5.4	--
SEP										
26...	1028	1028	.0	3.0	--	--	--	--	--	12
26...	1028	1028	1.5	3.0	92	7.0	23.0	--	--	--

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	BICAR-BONATE (MG/L AS HCO3) (00440)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
FEB										
28...	--	K120	--	--	--	--	--	--	--	--
28...	11.8	--	27	14	4.4	11	3.8	16	13	3.2
JUN										
13...	--	3	--	--	--	--	--	--	--	--
13...	8.0	--	22	4	4.6	12	2.5	22	18	1.8
SEP										
26...	--	K370	--	--	--	--	--	--	--	--
26...	7.8	--	--	--	--	--	--	--	--	--

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, AR (LAT 35 06 06 LONG 093 39 02)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DIS-SOLVED (MG/L) (00300)
FEB											
28...	1028	1028	.0	40	--	--	--	--	--	6.0	--
28...	1028	1028	8.0	40	86	7.6	3.0	180	80	--	12.0
28...	1028	1028	32	40	86	7.3	3.0	160	90	--	12.0
JUN											
13...	1028	1028	.0	40	--	--	--	--	--	26	--
13...	1028	1028	8.0	40	64	6.7	24.0	45	6.8	--	5.4
13...	1028	1028	32	40	68	6.3	20.5	90	31	--	.5
SEP											
26...	1028	1028	.0	30	--	--	--	--	--	24	--
26...	1028	1028	6.0	30	80	7.2	23.0	10	7.5	--	7.2
26...	1028	1028	24	30	90	7.2	23.0	20	9.1	--	7.2

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)
FEB											
28...	--	<7	--	--	--	--	--	--	--	--	--
28...	1.4	--	24	10	4.5	11	3.2	2.1	18	0	15
28...	1.4	--	24	9	4.4	11	3.2	2.0	18	0	15
JUN											
13...	--	2	--	--	--	--	--	--	--	--	--
13...	1.2	--	23	7	5.1	13	2.5	1.7	20	0	16
13...	1.1	--	22	5	4.5	11	2.5	1.8	20	0	16
SEP											
26...	--	>2	--	--	--	--	--	--	--	--	--
26...	1.6	--	26	0	5.0	12	3.4	1.9	33	0	27
26...	1.3	--	27	1	5.0	12	3.5	2.0	32	0	26

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, AR--CONTINUED

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.7	16	7.0	.43	.06	.30	.36	.79	3.5	.13	.05
28...	1.4	12	7.1	.36	.12	.17	.29	.65	2.9	.13	.02
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	6.4	7.0	3.7	.03	.03	.32	.35	.38	1.7	.02	.01
13...	16	11	3.9	.24	.01	.37	.38	.62	2.7	.03	.04
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	3.3	9.5	4.3	.01	.03	.42	.45	.46	2.0	.04	.00
26...	3.2	9.5	4.6	.01	.04	.95	.99	1.0	4.4	.06	.01

DATE	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)
FEB										
28...	--	--	--	--	--	--	--	--	--	--
28...	4700	1	20	6	4400	5	80	.0	8	20
28...	4700	1	10	6	3600	4	80	.0	4	20
JUN										
13...	--	--	--	--	--	--	--	--	--	--
13...	20	2	0	7	630	15	80	.0	3	5
13...	40	2	0	8	1400	6	430	.0	4	20
SEP										
26...	--	--	--	--	--	--	--	--	--	--
26...	160	1	0	2	470	4	120	.0	4	10
26...	320	1	0	1	890	4	260	.0	6	20

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR (LAT 35 06 17 LONG 093 37 53)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV										
09...	1028	--	--	--	14.5	--	--	--	--	--
DEC										
21...	1028	--	--	--	4.5	--	--	--	--	--
FEB										
02...	1028	--	--	--	4.0	--	--	--	--	--
28...	1028	1028	86	7.2	3.0	180	80	11.8	1.4	<7
MAR										
15...	1028	--	--	--	7.0	--	--	--	--	--
APR										
26...	1028	--	--	--	15.5	--	--	--	--	--
JUN										
08...	1028	--	--	--	22.0	--	--	--	--	--
13...	1028	1028	64	7.0	24.0	45	7.0	7.2	1.6	97
JUL										
17...	1028	--	--	--	28.0	--	--	--	--	--
SEP										
01...	1028	--	--	--	25.5	--	--	--	--	--
26...	1028	1028	92	7.3	23.0	20	7.4	8.6	1.6	K2

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR--CONTINUED

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
28...	24	8	4.2	10	3.2	2.1	19	0	16	1.9
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
13...	31	14	8.2	20	2.5	1.8	21	0	17	3.4
JUL										
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
26...	26	0	4.8	12	3.4	1.9	33	0	27	2.6

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
28...	15	6.9	.46	.07	.56	.63	1.1	4.8	.14	.05
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
13...	7.7	3.9	.04	.04	.24	.28	.32	1.4	.02	.01
JUL										
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
26...	9.9	4.3	.01	.03	.54	.57	.58	2.6	.04	.01

DATE	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)
NOV										
09...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
28...	5800	2	0	6	4200	4	80	.0	10	50
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
13...	20	1	0	7	710	5	110	.0	3	5
JUL										
17...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
26...	190	1	0	2	520	5	130	.0	4	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

345536093243600 NIMROD LAKE AT HWY 27 BRIDGE, AR (LAT 34 55 36 LONG 093 24 36)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB											
27...	1028	1028	.0	4.0	--	--	--	--	--	24	--
27...	1028	1028	2.0	4.0	34	7.0	6.0	45	18	--	12.6
JUN											
12...	1028	1028	.0	5.0	--	--	--	--	--	24	--
12...	1028	1028	2.5	5.0	40	6.2	26.5	25	4.6	--	7.3
SEP											
25...	1028	1028	.0	1.0	--	--	--	--	--	>12	--
25...	1028	1028	.5	1.0	60	6.5	24.0	6	5.4	--	9.8

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
FEB											
27...	--	K9	--	--	--	--	--	--	--	--	--
27...	.8	--	12	7	2.4	6	1.4	.7	6	0	5
JUN											
12...	--	16	--	--	--	--	--	--	--	--	--
12...	1.0	--	16	6	3.6	9	1.8	1.1	13	0	11
SEP											
25...	--	K7	--	--	--	--	--	--	--	--	--
25...	3.3	--	19	0	3.0	8	2.8	1.4	27	0	22

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	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)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	1.0	3.6	3.8	.09	.12	.19	.31	.40	1.8	.03	.00
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	13	4.7	3.0	.10	.01	.53	.54	.64	2.8	.02	.01
SEP											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	14	3.2	3.5	.00	.00	.55	.55	.55	2.4	.05	.01

DATE	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)
FEB										
27...	--	--	--	--	--	--	--	--	--	--
27...	450	0	40	23	1100	10	40	.0	16	40
JUN										
12...	--	--	--	--	--	--	--	--	--	--
12...	20	1	0	5	840	5	50	.1	6	5
SEP										
25...	--	--	--	--	--	--	--	--	--	--
25...	130	1	0	1	610	3	190	.0	6	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

345903093183600 NIMROD LAKE AT PLAINVIEW, AR (LAT 34 59 03 LONG 093 18 36)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
FEB										
27...	1028	1028	--	--	--	--	--	--	--	--
27...	1028	1028	--	--	52	7.4	5.0	27	8.5	--
JUN										
12...	1028	1028	.0	4.0	--	--	--	--	--	24
12...	1028	1028	2.0	4.0	98	6.5	23.0	6	3.5	--
SEP										
25...	1028	1028	.0	2.0	--	--	--	--	--	12
25...	1028	1028	1.0	2.0	132	6.2	20.5	45	6.3	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
FEB										
27...	--	K11	--	--	--	--	--	--	--	--
27...	12.8	--	15	4	2.5	6	2.1	13	11	.8
JUN										
12...	--	K880	--	--	--	--	--	--	--	--
12...	6.1	--	42	11	11	28	3.6	38	31	19
SEP										
25...	--	K25	--	--	--	--	--	--	--	--
25...	3.0	--	43	0	8.0	20	5.5	--	46	56

345703093192400 NIMROD LAKE NEAR WARDS CROSSING, AR (LAT 34 57 03 LONG 093 19 24)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB											
27...	1028	1028	.0	11	--	--	--	--	--	22	--
27...	1028	1028	2.0	11	60	6.8	7.5	50	19	--	12.8
27...	1028	1028	8.0	11	52	6.8	7.5	50	20	--	12.8
JUN											
12...	1028	1028	.0	13	--	--	--	--	--	26	--
12...	1028	1028	2.5	13	48	6.4	25.0	130	60	--	5.7
12...	1028	1028	11	13	51	6.3	23.0	45	4.1	--	.2
SEP											
26...	1028	1028	.0	2.0	--	--	--	--	--	7.0	--
26...	1028	1028	1.0	2.0	101	6.5	24.0	8	10	--	14.6

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
FEB											
27...	--	<2	--	--	--	--	--	--	--	--	--
27...	1.5	--	13	5	3.0	8	1.3	1.0	9	0	7
27...	--	--	12	5	2.1	5	1.7	1.0	9	0	7
JUN											
12...	--	1	--	--	--	--	--	--	--	--	--
12...	4.8	--	19	2	4.2	10	2.0	1.8	21	0	17
12...	2.8	--	16	2	3.0	8	2.0	1.5	17	0	14
SEP											
26...	--	K2300	--	--	--	--	--	--	--	--	--
26...	>8.9	--	26	3	4.0	10	3.8	1.9	27	0	22

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

345703093192400 NIMROD LAKE NEAR WARDS CROSSING, AR--CONTINUED

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	2.3	6.0	6.6	.09	.07	.08	.15	.24	1.1	.06	.01
27...	2.3	8.9	5.8	.11	.11	.25	.36	.47	2.1	.06	.02
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	13	4.2	3.9	.01	.20	.90	1.1	1.1	4.9	.10	.08
12...	14	3.7	3.3	.01	.01	.47	.48	.49	2.2	.03	.01
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	14	9.3	15	.04	.04	2.1	2.1	2.1	9.5	.16	.04

DATE	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)
FEB										
27...	--	--	--	--	--	--	--	--	--	--
27...	500	1	10	6	1300	6	120	.0	2	40
27...	560	1	10	4	1200	4	120	.0	6	20
JUN										
12...	--	--	--	--	--	--	--	--	--	--
12...	70	6	25	6	8000	7	1400	.0	9	20
12...	10	2	0	6	1500	6	110	.0	3	10
SEP										
26...	--	--	--	--	--	--	--	--	--	--
26...	330	4	0	2	3000	6	1500	.0	7	10

345654093171200 NIMROD LAKE AT PRAIRIRE CREEK, AR (LAT 34 56 54 LONG 093 17 12)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SAMP-LING DEPTH (FT) (00003)	RESER-VOIR DEPTH (FEET) (72025)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)
FEB										
27...	1028	1028	.0	10	--	--	--	--	--	--
27...	1028	1028	2.0	10	44	7.4	7.0	60	27	--
27...	1028	1028	8.0	10	44	7.2	7.0	55	26	--
JUN										
12...	1028	1028	.0	12	--	--	--	--	--	24
12...	1028	1028	2.5	12	40	6.6	26.0	25	4.7	--
12...	1028	1028	9.5	12	46	6.2	24.5	33	19	--
SEP										
26...	1028	1028	.0	2.0	--	--	--	--	--	12
26...	1028	1028	1.0	2.0	54	6.6	14.5	7	24	--

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM DIS-SOLVED (MG/L AS CACO3) (00910)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	BICAR-BONATE (MG/L AS HCO3) (00440)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
FEB										
27...	--	<7	--	--	--	--	--	--	--	--
27...	13.4	--	11	5	1.9	5	1.5	7	6	.4
27...	13.4	--	11	4	1.9	5	1.5	8	7	.8
JUN										
12...	--	0	--	--	--	--	--	--	--	--
12...	6.1	--	66	53	24	60	1.5	16	13	6.4
12...	.2	--	13	0	2.6	6	1.6	17	14	17
SEP										
26...	--	K7	--	--	--	--	--	--	--	--
26...	8.2	--	14	0	2.0	5	2.3	--	16	7.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

345722093145600 NIMROD LAKE NEAR CARTER COVE, AR (LAT 34 57 22 LONG 093 14 56)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
FEB										
27...	1028	1028	.0	3.0	--	--	--	--	--	--
27...	1028	1028	1.5	3.0	36	6.0	7.0	50	24	--
JUN										
12...	1028	1028	.0	4.0	--	--	--	--	--	14
12...	1028	1028	2.0	4.0	40	6.5	26.5	40	10	--
SEP										
26...	1028	1028	.0	2.0	--	--	--	--	--	18
26...	1028	1028	1.0	2.0	57	6.8	15.0	--	--	--

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	BICARBONATE (MG/L AS HCO3) (00440)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)
FEB										
27...	--	<2	--	--	--	--	--	--	--	--
27...	13.6	--	10	4	1.8	4	1.4	8	7	13
JUN										
12...	--	1	--	--	--	--	--	--	--	--
12...	5.3	--	12	1	2.5	6	1.3	13	11	6.6
SEP										
26...	--	<2	--	--	--	--	--	--	--	--
26...	6.0	--	--	--	--	--	--	--	--	--

07262000 NIMROD LAKE NEAR NIMROD, AR (LAT 34 57 07 LONG 093 09 38)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FT) (00003)	RESERVOIR DEPTH (FEET) (72025)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	OXYGEN, DISSOLVED (MG/L) (00300)
FEB											
27...	1028	1028	.0	40	--	--	--	--	--	22	--
27...	1028	1028	8.0	40	32	7.4	4.5	55	21	--	14.0
27...	1028	1028	32	40	32	7.2	4.5	55	20	--	14.0
JUN											
12...	1028	1028	.0	40	--	--	--	--	--	26	--
12...	1028	1028	8.0	40	38	6.6	25.5	15	4.1	--	6.3
12...	1028	1028	32	40	64	6.6	20.0	120	38	--	.2
SEP											
25...	1028	1028	.0	26	--	--	--	--	--	28	--
25...	1028	1028	5.0	26	44	6.9	23.5	7	5.5	--	6.0
25...	1028	1028	21	26	44	7.0	23.0	6	6.1	--	5.3

DATE	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM DISSOLVED (MG/L AS CACO3) (00910)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, TOTAL RECOVERABLE (MG/L AS K) (00937)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)
FEB											
27...	--	<2	--	--	--	--	--	--	--	--	--
27...	1.8	--	11	3	1.9	5	1.4	1.0	9	0	7
27...	1.5	--	12	5	2.5	6	1.4	.9	9	0	7
JUN											
12...	--	2	--	--	--	--	--	--	--	--	--
12...	3.4	--	14	4	2.5	6	1.8	1.2	12	0	10
12...	2.2	--	36	17	11	28	2.1	1.7	23	0	19
SEP											
25...	--	<2	--	--	--	--	--	--	--	--	--
25...	2.4	--	12	0	2.0	5	1.7	1.2	15	0	12
25...	2.1	--	12	1	2.0	5	1.7	1.2	14	0	11

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

07262000 NIMROD LAKE NEAR NIMROD, AR--CONTINUED

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	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)	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)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
FEB											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.6	6.1	3.5	.12	.05	1.2	1.2	1.3	5.8	.05	.01
27...	.9	4.1	3.8	.09	.07	.07	.14	.23	1.0	.05	.00
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	4.8	6.2	3.0	.01	.01	.81	.82	.83	3.7	.02	.01
12...	9.2	4.3	2.8	.01	.31	.58	.89	.90	4.0	.04	.04
SEP											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	3.0	4.2	3.2	.01	.11	.58	.69	.70	3.1	.05	.01
25...	2.2	4.1	3.3	.01	.13	.57	.70	.71	3.1	.05	.01

DATE	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)
FEB										
27...	--	--	--	--	--	--	--	--	--	--
27...	470	1	0	4	1200	4	80	.0	7	20
27...	330	1	0	6	880	6	90	.0	6	20
JUN										
12...	--	--	--	--	--	--	--	--	--	--
12...	10	1	0	5	570	5	100	.1	6	10
12...	70	3	0	8	4400	7	2300	.0	4	10
SEP										
25...	--	--	--	--	--	--	--	--	--	--
25...	140	1	0	1	460	5	240	.0	6	10
25...	190	1	0	2	590	5	300	.0	6	20

RED RIVER BASIN

07348590 BAYOU DORCHEAT NEAR FALCON, AR (LAT 33 26 41 LONG 093 21 55)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (JTU) (00070)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)
OCT										
13...	1028	1028	33	6.6	14.0	4	9.6	96	16	12
NOV										
22...	1028	1028	78	5.1	11.0	5	8.4	78	12	7
DEC										
21...	1028	1028	201	5.6	4.5	3	8.7	70	16	14

DATE	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)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
OCT										
13...	3.9	1.5	3.0	28	.3	.8	5	--	4	2.0
NOV										
22...	2.8	1.1	8.8	58	1.1	2.0	6	0	5	76
DEC										
21...	4.1	1.5	30	78	3.2	1.8	3	0	2	12

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07348590 BAYOU DORCHEAT NEAR FALCON, AR--CONTINUED

DATE	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT										
13...	2.3	6.0	.0	10	26	30	.04	.04	.01	--
NOV										
22...	2.2	18	.0	9.9	65	48	.09	.03	.00	.44
DEC										
21...	8.5	52	.0	9.1	119	108	.16	.01	.01	.75

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	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)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	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)
OCT										
13...	.04	--	1	200	<10	10	<50	<10	1700	<100
NOV										
22...	.04	.04	--	--	--	--	--	--	--	--
DEC										
21...	.02	.01	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
13...	130	.0	0	<10	0	4.9	1.0	--	--
NOV									
22...	--	--	--	--	--	8.6	.7	86	52
DEC									
21...	--	--	--	--	--	5.4	.4	6	27

07349415 LITTLE BODCAU CREEK AT BODCAW, AR (LAT 33 33 25 LONG 093 25 58)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (JTU) (00070)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)
MAR										
14...	1028	1028	50	4.9	10.0	9	7.8	71	12	12

DATE	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)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
MAR										
14...	2.7	1.3	2.9	32	.4	1.1	0	0	0	.0

DATE	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	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)
MAR										
14...	9.7	5.2	.1	8.4	44	31	.06	.04	.01	.58

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07349415 LITTLE BODCAU CREEK AT BODCAW, AR--CONTINUED

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR										
14...	.59	.35	.24	.63	2.8	.04	.02	13	96	40

07349430 BODCAU CREEK NEAR STAMPS, AR (LAT 33 22 00 LONG 093 31 20)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT												
13...	1028	1028	3450	6.7	13.0	--	2.8	27	--	--	--	--
NOV												
22...	1028	1028	420	6.3	11.5	--	2.2	21	--	--	--	--
DEC												
21...	1028	1028	160	5.5	5.5	4	8.6	70	22	19	5.6	2.0

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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												
13...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	21	65	1.9	2.2	4	0	3	20	8.3	38	.0	12

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT												
13...	--	--	--	--	--	--	--	--	13	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	16	1.5	--	--
DEC												
21...	112	91	.15	.21	.25	.79	.27	.22	9.3	.6	6	92

07360161 CYPRESS CREEK NEAR SPARKMAN, AR (LAT 33 56 05 LONG 092 52 15)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
SEP , 1977												
08...	1028	1028	37	6.8	25.0	--	--	7.0	86	9	2	2.3
OCT												
19...	1028	1028	26	6.4	11.5	7	--	9.8	93	8	3	2.4
NOV												
23...	1028	1028	28	5.8	11.0	10	--	9.5	89	7	5	1.8
DEC												
22...	1028	1028	28	6.2	3.5	7	--	11.4	88	10	7	2.9
MAR , 1978												
15...	1028	1028	29	5.9	12.0	20	--	9.7	93	7	6	1.8
JUN												
15...	1028	1028	26	6.1	21.0	--	7.7	8.1	93	17	0	5.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07360161 CYPRESS CREEK NEAR SPARKMAN, AR--CONTINUED

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)
SEP , 1977												
08...	.8	1.6	24	.2	1.5	8	0	7	2.0	3.8	2.9	.1
OCT												
19...	.5	1.5	25	.2	1.3	6	0	5	3.8	3.7	2.5	.1
NOV												
23...	.7	2.0	31	.3	1.7	3	0	2	7.6	4.1	3.0	.0
DEC												
22...	.7	1.6	23	.2	1.0	4	0	3	4.0	5.8	3.3	.0
MAR , 1978												
15...	.5	1.2	25	.2	.9	1	0	1	2.0	3.9	3.1	.0
JUN												
15...	.8	2.6	25	.3	.7	--	--	20	--	3.7	3.4	.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP , 1977												
08...	9.6	23	27	.03	--	--	.05	.01	.31	.32	--	--
OCT												
19...	11	16	26	.02	--	--	.01	.01	--	--	--	.12
NOV												
23...	11	45	26	.06	--	--	.01	.01	--	--	--	.25
DEC												
22...	11	25	28	.03	--	--	.00	.00	--	--	--	.83
MAR , 1978												
15...	9.0	38	21	.05	--	--	.03	.01	.77	.78	.42	.36
JUN												
15...	11	29	40	.04	.07	.01	.08	.03	.66	.69	--	--

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
SEP , 1977												
08...	.37	1.6	.02	--	--	1	0	<10	0	<50	<10	1500
OCT												
19...	--	--	.04	.04	--	1	400	<10	0	<50	<10	1300
NOV												
23...	--	--	.04	.01	--	--	--	--	--	--	--	--
DEC												
22...	--	--	.00	.00	--	--	--	--	--	--	--	--
MAR , 1978												
15...	.81	3.6	.02	.02	--	--	--	--	--	--	--	--
JUN												
15...	.77	3.4	.02	.00	.01	1	--	1	0	0	8	1100

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
SEP , 1977											
08...	<100	30	.0	0	<10	40	4.1	--	--	5	38
OCT											
19...	<100	20	.0	0	<10	30	--	4.3	--	--	--
NOV											
23...	--	--	--	--	--	--	--	8.8	1.2	10	91
DEC											
22...	--	--	--	--	--	--	--	4.3	.8	3	75
MAR , 1978											
15...	--	--	--	--	--	--	--	8.3	.7	21	83
JUN											
15...	5	90	.1	0	--	10	11	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07360182 BRUSHY CREEK NEAR OUACHITA, AR (LAT 33 51 26 LONG 092 50 31)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
DEC												
22...	1028	1028	58	5.6	3.0	5	11.3	87	8	7	1.8	.9
MAR												
15...	1028	1028	59	5.2	12.0	8	8.9	85	14	10	3.5	1.2
JUN												
15...	--	1028	159	5.3	20.0	5	4.9	56	26	22	7.0	2.1

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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)
DEC												
22...	5.1	52	.8	1.6	2	0	2	8.0	7.9	10	.0	13
MAR												
15...	5.2	43	.6	1.2	4	0	3	40	8.6	9.7	.1	6.6
JUN												
15...	19	60	1.6	--	--	--	4	--	3.8	--	.1	12

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)
DEC												
22...	54	41	.07	--	--	.00	.03	--	--	1.2	--	--
MAR												
15...	56	38	.08	--	--	.04	.01	.34	.35	--	--	--
JUN												
15...	--	86	.12	.07	.01	.08	.11	.53	.64	--	.72	3.2

DATE	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	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)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
DEC												
22...	.02	.01	--	--	--	--	--	--	--	--	9.7	1.1
MAR												
15...	.03	.01	--	--	--	--	--	--	--	--	5.1	.7
JUN												
15...	--	--	1	1	2100	3	230	.0	0	20	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361650 TERRE ROUGE CREEK NEAR PRESCOTT, AR (LAT 33 46 46 LONG 093 14 20)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
SEP , 1977												
08...	1028	1028	168	7.3	25.5	--	--	5.5	68	35	0	11
OCT												
18...	1028	1028	120	6.9	13.5	20	--	9.0	89	35	4	11
NOV												
22...	1028	1028	104	6.8	11.5	15	--	10.0	94	30	0	9.2
DEC												
21...	1028	1028	160	7.1	5.0	15	--	9.0	72	36	6	11
MAR , 1978												
14...	1028	1028	120	6.4	10.5	50	--	9.1	84	28	15	7.9
JUN												
14...	1028	1028	182	7.2	24.5	--	21	7.0	85	60	3	18

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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
SEP , 1977												
08...	1.9	20	52	1.5	4.1	66	0	54	5.3	9.3	15	.1
OCT												
18...	1.8	9.7	35	.7	3.8	38	0	31	7.7	11	8.0	.1
NOV												
22...	1.7	8.7	35	.7	3.7	36	0	30	9.1	6.5	7.2	.1
DEC												
21...	2.0	14	43	1.0	3.2	36	0	30	4.6	17	15	.1
MAR , 1978												
14...	2.0	10	41	.8	2.2	16	0	13	10	16	16	.1
JUN												
14...	3.6	15	34	.8	3.8	--	--	57	--	14	13	.1

DATE	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 AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP , 1977												
08...	13	108	107	.15	--	--	.25	.03	.39	.42	--	--
OCT												
18...	14	77	78	.10	--	--	.12	.03	--	--	--	.30
NOV												
22...	17	83	72	.11	--	--	.03	.04	--	--	--	.55
DEC												
21...	17	97	97	.13	--	--	.21	.12	--	--	--	.48
MAR , 1978												
14...	7.5	84	70	.11	--	--	.25	.10	1.0	1.1	.10	1.0
JUN												
14...	14	--	116	.27	.24	.01	.25	.03	.94	.97	--	--

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)
SEP , 1977												
08...	.67	3.0	.27	--	--	3	0	<10	0	<50	<10	1400
OCT												
18...	--	--	.21	.14	--	2	400	<10	0	<50	<10	1700
NOV												
22...	--	--	.21	.07	--	--	--	--	--	--	--	--
DEC												
21...	--	--	.19	.14	--	--	--	--	--	--	--	--
MAR , 1978												
14...	1.4	6.0	.19	.08	--	--	--	--	--	--	--	--
JUN												
14...	1.2	5.4	.19	.05	.15	2	--	1	5	0	13	3500

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361650 TERRE ROUGE CREEK NEAR PRESCOTT, AR--CONTINUED

DATE	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
SEP , 1977											
08...	<100	140	.0	0	<10	10	5.9	--	--	18	84
OCT											
18...	<100	80	.0	0	<10	30	--	7.8	.5	--	--
NOV											
22...	--	--	--	--	--	--	--	8.3	.5	23	68
DEC											
21...	--	--	--	--	--	--	--	6.5	.5	15	81
MAR , 1978											
14...	--	--	--	--	--	--	--	8.7	1.6	65	90
JUN											
14...	6	440	.0	0	--	20	10	--	--	--	--

07361700 CANEY CREEK NEAR BLUFF CITY, AR (LAT 33 45 40 LONG 093 09 00)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (JTU) (00070)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
SEP , 1977											
08...	1028	1028	160	6.7	25.5	--	4.1	51	24	4	6.5
OCT											
18...	1028	1028	201	6.5	13.0	3	7.2	70	21	15	5.6
NOV											
22...	1028	1028	33	5.8	13.0	10	8.3	81	10	4	2.6
DEC											
21...	1028	1028	188	5.7	6.0	4	8.7	72	20	19	5.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	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)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP , 1977											
08...	1.8	22	65	2.0	1.4	24	0	20	7.7	4.3	36
OCT											
18...	1.7	28	72	2.7	1.7	7	0	6	3.5	4.8	53
NOV											
22...	.9	2.9	32	.4	2.3	7	0	6	18	1.4	4.7
DEC											
21...	1.7	26	71	2.5	1.9	2	0	2	6.4	11	44

DATE	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	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)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP , 1977											
08...	.1	3.8	92	88	.13	.06	.04	.31	.35	--	.41
OCT											
18...	.1	5.4	91	104	.12	.04	.03	--	--	.44	--
NOV											
22...	.0	13	40	31	.05	.01	.02	--	--	.20	--
DEC											
21...	.1	11	110	102	.15	.00	.00	--	--	.31	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361700 CANEY CREEK NEAR BLUFF CITY, AR--CONTINUED

DATE	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	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)	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)
SEP , 1977											
08...	1.8	.01	--	0	0	<10	0	<50	<10	850	<100
OCT											
18...	--	.03	.02	1	400	<10	10	<50	<10	750	<100
NOV											
22...	--	.06	.04	--	--	--	--	--	--	--	--
DEC											
21...	--	.02	.01	--	--	--	--	--	--	--	--

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
SEP , 1977										
08...	560	.0	0	<10	40	8.0	--	--	12	67
OCT										
18...	260	.0	0	<10	20	--	5.5	.4	--	--
NOV										
22...	--	--	--	--	--	--	7.6	1.1	10	70
DEC										
21...	--	--	--	--	--	--	7.4	.6	6	96

07361805 TERRE NOIR CREEK AT VADEN, AR (LAT 33 51 51 LONG 092 57 05)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
SEP , 1977												
08...	1028	1028	310	7.6	28.0	--	--	6.7	86	79	5	27
OCT												
18...	1028	1028	281	6.7	14.0	9	--	9.4	94	68	0	23
NOV												
22...	1028	1028	158	6.6	12.5	160	--	9.2	89	48	5	17
DEC												
21...	1028	1028	180	7.2	6.0	20	--	9.5	78	45	7	15
MAR , 1978												
14...	1028	1028	112	6.7	11.0	240	--	9.5	89	40	13	14
JUN												
15...	1028	1028	103	6.9	23.5	--	40	6.6	80	42	16	12

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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
SEP , 1977												
08...	2.9	31	45	1.5	2.8	91	0	75	3.7	21	39	.2
OCT												
18...	2.6	29	47	1.5	3.3	91	0	75	29	21	31	.3
NOV												
22...	1.3	11	31	.7	3.8	52	0	43	21	8.2	15	.1
DEC												
21...	1.8	15	41	1.0	2.0	46	0	38	4.0	17	18	.1
MAR , 1978												
14...	1.2	4.9	20	.3	1.7	33	0	27	11	10	5.7	.1
JUN												
15...	2.8	8.6	30	.6	1.7	--	--	26	--	10	9.4	.1

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361805 TERRE NOIR CREEK AT VADEN, AR--CONTINUED

DATE	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 AC-FT) (70303)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP , 1977												
08...	6.4	176	175	.24	--	--	.00	.01	.21	.22	--	.22
OCT												
18...	12	153	167	.21	--	--	.03	.06	--	--	.45	--
NOV												
22...	4.6	112	87	.15	--	--	.69	.06	--	--	.55	--
DEC												
21...	9.8	102	101	.14	--	--	.01	.03	--	--	.81	--
MAR , 1978												
14...	6.1	84	60	.11	--	--	.16	.03	.84	.87	--	1.0
JUN												
15...	7.5	70	67	.10	.13	.02	.15	.04	.63	.67	--	.82

DATE	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
SEP , 1977											
08...	1.0	.01	--	--	1	100	<10	0	<50	<10	410
OCT											
18...	--	.05	.04	--	1	500	<10	0	<50	<10	840
NOV											
22...	--	.29	.05	--	--	--	--	--	--	--	--
DEC											
21...	--	.05	.02	--	--	--	--	--	--	--	--
MAR , 1978											
14...	4.6	.20	.02	--	--	--	--	--	--	--	--
JUN											
15...	3.6	.06	.01	.04	2	--	1	5	0	10	2100

DATE	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
SEP , 1977											
08...	<100	140	.0	0	<10	10	4.7	--	--	88	95
OCT											
18...	<100	70	.0	0	<10	40	--	5.1	.6	--	--
NOV											
22...	--	--	--	--	--	--	--	9.5	3.7	173	97
DEC											
21...	--	--	--	--	--	--	--	5.5	.7	24	73
MAR , 1978											
14...	--	--	--	--	--	--	--	9.2	2.9	257	91
JUN											
15...	55	210	.1	0	--	40	13	--	--	--	--

07361850 TULIP CREEK NEAR PINE GROVE, AR (LAT 33 51 30 LONG 092 44 25)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (JTU) (00070)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAR												
15...	1028	1028	36	5.5	10.5	30	--	8.8	81	10	6	2.4
JUN												
15...	1028	1028	33	6.4	20.0	--	120	7.2	82	14	--	4.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361850 TULIP CREEK NEAR PINE GROVE, AR--CONTINUED

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)
MAR												
15...	.9	1.2	19	.2	1.1	5	0	4	25	8.1	3.7	.1
JUN												
15...	.8	2.8	28	.3	.9	--	--	--	--	4.3	3.0	.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, NH4 + ORG, SUSP, TOTAL (MG/L AS N) (00624)
MAR											
15...	7.8	45	28	.06	--	--	.01	.03	.83	.86	.19
JUN											
15...	13	45	32	.06	.09	.01	.10	.03	.71	.74	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)
MAR											
15...	.67	.87	3.9	.05	.01	--	--	--	--	--	--
JUN											
15...	--	.84	3.7	.11	.00	.02	2	1	0	0	8

DATE	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)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR											
15...	--	--	--	--	--	--	--	13	1.8	16	88
JUN											
15...	1900	3	180	.0	1	10	24	--	--	--	--

07361855 TULIP CREEK NEAR OUACHITA, AR (LAT 33 48 21 LONG 092 49 44)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
OCT										
19...	1028	1028	36	6.7	12.0	10	9.5	91	8	0
NOV										
23...	1028	1028	119	6.7	10.5	5	9.9	92	18	4
DEC										
22...	1028	1028	40	7.1	3.0	6	12.2	94	11	7

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361855 TULIP CREEK NEAR OUACHITA, AR--CONTINUED

DATE	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)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE (MG/L AS HCO3) (00440)	CAR-BONATE (MG/L AS CO3) (00445)	ALKA-LINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
OCT										
19...	2.2	.7	2.7	36	.4	1.7	10	0	8	3.2
NOV										
23...	4.3	1.8	16	62	1.6	2.5	17	0	14	5.4
DEC										
22...	3.0	.8	2.5	30	.3	1.5	5	0	4	.6

DATE	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT										
19...	3.8	4.4	.0	15	34	35	.05	.01	.02	.31
NOV										
23...	6.6	24	.1	6.9	90	71	.12	.00	.00	.42
DEC										
22...	6.7	4.5	.0	14	35	35	.05	.00	.01	.58

DATE	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	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)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	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)
OCT										
19...	.04	.03	1	400	<10	0	<50	<10	920	<100
NOV										
23...	.04	.01	--	--	--	--	--	--	--	--
DEC										
22...	.01	.00	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
19...	50	.0	0	<10	30	5.0	.6	--	--
NOV									
23...	--	--	--	--	--	6.5	.5	23	78
DEC									
22...	--	--	--	--	--	6.0	.7	12	87

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07362100 SMACKOVER CREEK NEAR SMACKOVER, AR (LAT 33 22 33 LONG 092 46 37)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT												
11...	1028	1028	--	2880	5.9	16.5	6.3	67	5.9	.6	--	--
21...	1028	--	2.8	--	--	14.0	--	--	--	--	--	--
NOV												
21...	1028	1028	--	1120	6.3	13.0	8.0	78	6.4	.4	7	79
DEC												
07...	1028	--	30	--	--	7.0	--	--	--	--	--	--
20...	1028	1028	--	1720	5.9	8.0	10.3	90	5.6	.6	--	--
JAN												
25...	1028	--	340	--	--	4.0	--	--	--	--	--	--
MAR												
02...	1028	--	339	--	--	10.5	--	--	--	--	--	--
APR												
01...	1028	--	186	--	--	17.0	--	--	--	--	--	--
MAY												
24...	1028	--	410	--	--	23.0	--	--	--	--	--	--
JUL												
07...	1028	--	13	--	--	27.5	--	--	--	--	--	--
AUG												
06...	1028	--	.86	--	--	26.0	--	--	--	--	--	--
SEP												
26...	1028	--	1.0	--	--	22.0	--	--	--	--	--	--

07362300 CHAMPAGNOLLE CREEK AT HAMPTON, AR (LAT 33 32 14 LONG 092 29 34)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
MAR												
15...	1028	1028	88	5.4	11.0	6	8.2	77	14	4	3.6	1.2
JUN												
14...	1028	1028	84	6.5	22.0	1	2.3	27	20	4	5.5	1.4

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
MAR											
15...	9.5	56	1.1	1.8	12	0	10	76	7.6	15	.0
JUN											
14...	10	50	1.0	1.5	--	--	16	--	5.4	12	.1

DATE	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 AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)
MAR											
15...	9.8	67	54	.09	--	--	.08	.01	.59	.60	.09
JUN											
14...	5.8	64	51	.09	.04	.01	.05	.27	.83	1.1	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07362300 CHAMPAGNOLLE CREEK AT HAMPTON, AR--CONTINUED

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)
MAR											
15...	.51	.68	3.0	.03	.03	--	--	--	--	--	--
JUN											
14...	--	1.2	5.1	.19	.11	.14	2	1	0	0	7

DATE	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)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR											
15...	--	--	--	--	--	--	--	9.0	.7	7	83
JUN											
14...	3200	2	2200	.0	0	10	12	--	--	--	--

07363080 SALINE RIVER NEAR TULL, AR (LAT 34 26 28 LONG 092 35 59)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT												
20...	1028	1028	173	7.3	14.0	--	8.2	82	--	--	--	--
NOV												
21...	1028	1028	110	7.4	13.0	20	10.2	100	51	17	15	3.4
DEC												
20...	1028	1028	103	7.1	8.0	8	10.8	94	42	4	12	2.9

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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												
20...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
21...	2.6	10	.2	1.2	42	0	34	2.7	23	3.4	.1	7.1
DEC												
20...	1.8	8	.1	.8	46	0	38	5.8	6.8	2.8	.1	6.5

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT												
20...	--	--	--	--	--	--	--	--	3.7	.4	--	--
NOV												
21...	82	77	.11	.14	.04	.27	.09	.04	5.6	.8	29	90
DEC												
20...	54	56	.07	.07	.04	.31	.04	.02	3.0	.5	10	89

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07363300 HURRICANE CREEK NEAR SHERIDAN, AR (LAT 34 19 10 LONG 092 20 40)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT												
11...	1028	--	11	--	--	16.0	--	--	--	--	--	--
21...	1028	1028	--	1110	6.4	13.5	--	8.9	88	540	530	180
NOV												
21...	1028	1028	--	365	6.7	12.5	--	10.0	97	120	110	41
DEC												
01...	1028	--	378	--	--	10.0	--	--	--	--	--	--
20...	1028	1028	--	340	6.7	7.0	--	11.2	95	120	110	41
JAN												
03...	1028	--	39	--	--	5.0	--	--	--	--	--	--
FEB												
13...	1025	--	346	--	--	2.0	--	--	--	--	--	--
MAR												
13...	1028	1028	--	150	7.0	8.5	--	11.9	105	32	13	9.4
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	1028	--	150	--	--	19.0	--	--	--	--	--	--
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	1028	--	2320	--	--	18.5	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	1028	1028	--	212	7.1	21.5	7.2	7.6	88	66	--	20
22...	1028	--	6.5	--	--	25.0	--	--	--	--	--	--
SEP												
12...	1028	--	7.8	--	--	23.0	--	--	--	--	--	--

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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
21...	21	24	9	.5	2.7	11	0	9	7.0	560	3.0	1.1
NOV												
21...	4.7	20	26	.8	3.4	19	0	16	6.1	130	4.7	.9
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
20...	4.9	12	17	.5	1.9	20	0	16	6.4	120	5.7	.7
JAN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	2.0	14	48	1.1	1.3	23	0	19	3.7	33	4.6	.6
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	4.0	13	29	.7	1.7	--	--	--	--	64	3.9	1.0
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07363300 HURRICANE CREEK NEAR SHERIDAN, AR--CONTINUED

DATE	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 AC-FT) (70303)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
21...	3.5	853	801	1.16	--	--	.11	.01	--	--	--	8.0
NOV												
21...	6.6	230	221	.31	--	--	.06	.00	--	--	--	.43
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
20...	8.4	205	204	.28	--	--	.13	.08	--	--	--	.71
JAN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	11	94	87	.13	--	--	.05	.01	.96	.97	.05	.92
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	8.6	132	--	.18	.09	.01	.10	.00	.87	.87	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	.02	.00	--	1	500	10	15	<50	<10	120
NOV												
21...	--	--	.03	.02	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	.01	.00	--	--	--	--	--	--	--	--
JAN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	1.0	4.5	.02	.02	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	.97	4.3	.02	.00	.01	1	--	1	15	0	15	20
22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07363300 HURRICANE CREEK NEAR SHERIDAN, AR--CONTINUED

DATE	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	100	1400	.0	0	<10	30	--	3.4	.7	--	--
NOV											
21...	--	--	--	--	--	--	--	5.7	.7	10	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	3.3	.6	19	93
JAN											
03...	--	--	--	--	--	--	--	--	--	--	--
FEB											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	4.8	.7	23	73
23...	--	--	--	--	--	--	--	--	--	47	70
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
24...	--	--	--	--	--	--	--	--	--	64	74
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	1422	37
JUN											
13...	11	360	.6	0	--	30	6.9	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

07363500 SALINE RIVER NEAR RYE, AR (LAT 33 42 03 LONG 092 01 33)

DATE	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
14...	1028	--	73	--	--	16.0	--	--	--	--	--	--
21...	1028	1028	--	308	7.2	15.0	--	9.4	96	130	100	43
NOV												
21...	1028	1028	--	135	6.5	12.5	--	10.2	99	53	23	16
DEC												
02...	1028	--	1010	--	--	8.0	--	--	--	--	--	--
20...	1028	1028	--	114	6.7	7.0	--	10.8	92	47	23	14
JAN												
06...	1028	--	377	--	--	7.0	--	--	--	--	--	--
FEB												
09...	1028	--	2420	--	--	1.0	--	--	--	--	--	--
MAR												
13...	1028	1028	--	84	7.2	8.0	--	12.0	105	36	25	11
30...	1028	--	2350	--	--	19.5	--	--	--	--	--	--
MAY												
16...	1028	--	8350	--	--	19.0	--	--	--	--	--	--
JUN												
13...	1028	1028	--	91	6.8	24.5	22	7.0	85	38	11	11
22...	1028	--	520	--	--	26.5	--	--	--	--	--	--
AUG												
03...	1028	--	54	--	--	30.5	--	--	--	--	--	--
SEP												
15...	1028	--	105	--	--	26.0	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07363500 SALINE RIVER NEAR RYE, AR--CONTINUED

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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
21...	5.2	10	14	.4	2.2	34	0	28	3.4	120	4.0	.3
NOV												
21...	3.2	4.5	15	.3	2.2	37	0	30	19	24	3.5	.1
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
20...	2.9	4.7	17	.3	1.1	29	0	24	9.3	22	3.5	.1
JAN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	2.1	3.6	17	.3	1.0	14	0	11	1.4	16	9.9	.1
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	2.6	3.2	15	.2	1.3	--	--	27	--	13	3.0	.1
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
15...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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 AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
21...	5.3	254	207	.35	--	--	.09	.00	--	--	--	.23
NOV												
21...	7.0	82	79	.11	--	--	.21	.00	--	--	--	.33
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
20...	6.8	68	69	.09	--	--	.09	.02	--	--	--	.18
JAN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	7.4	63	58	.09	--	--	.05	.03	.26	.29	.00	.29
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	7.8	63	58	.09	.17	.01	.18	.01	.53	.54	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
15...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07363500 SALINE RIVER NEAR RYE, AR--CONTINUED

DATE	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	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)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	.03	.00	--	1	500	<10	0	<50	<10	200
NOV												
21...	--	--	.09	.06	--	--	--	--	--	--	--	--
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	.05	.04	--	--	--	--	--	--	--	--
JAN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
13...	.34	1.5	.42	.03	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	.72	3.2	.04	.02	.03	1	--	1	0	0	10	1300
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
15...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
21...	100	70	.0	0	<10	20	--	4.2	.5	--	--
NOV											
21...	--	--	--	--	--	--	--	7.0	.9	40	82
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	4.3	.6	24	79
JAN											
06...	--	--	--	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	7.9	.9	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	8	160	.1	0	--	20	9.0	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07364035 L'AIGLE CREEK NEAR INGALLS, AR (LAT 33 22 11 LONG 092 11 03)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
MAR											
13...	1028	1028	61	5.8	10.5	8	--	10.0	92	15	9
JUN											
13...	1028	1028	70	6.6	24.0	--	7.6	4.5	55	19	6

DATE	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)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
MAR											
13...	3.7	1.3	4.2	36	.5	1.5	7	0	6	18	11
JUN											
13...	5.3	1.4	6.3	40	.6	1.2	--	--	13	--	6.3

DATE	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)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	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)
MAR											
13...	5.6	.1	8.6	53	39	.07	--	--	.05	.01	.50
JUN											
13...	8.1	.1	12	72	49	.10	.30	.01	.31	.05	.75

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NH4 + ORG, SUSP, TOTAL (MG/L AS N) (00624)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, TOTAL (MG/L AS NO3) (71887)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
MAR											
13...	.51	.08	.43	.56	2.5	.04	.01	--	--	--	--
JUN											
13...	.80	--	--	1.1	4.9	.11	.08	.10	2	1	0

DATE	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)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
MAR											
13...	--	--	--	--	--	--	--	--	--	14	.5
JUN											
13...	0	8	2600	4	420	.1	0	20	15	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07365800 CORNIE BAYOU NEAR THREE CREEKS, AR (LAT 33 02 21 LONG 092 56 15)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT												
11...	1028	1028	--	180	7.2	16.0	2.1	22	--	--	--	--
NOV												
21...	1028	1028	--	152	6.2	13.0	4.0	39	--	--	--	--
DEC												
08...	1028	--	4.3	--	--	8.0	--	--	--	--	--	--
20...	1028	1028	--	180	5.8	8.5	9.3	82	29	27	8.3	2.0
JAN												
24...	1028	--	29	--	--	4.0	--	--	--	--	--	--
MAR												
01...	1028	--	73	--	--	9.0	--	--	--	--	--	--
APR												
11...	1028	--	43	--	--	17.0	--	--	--	--	--	--
MAY												
23...	1028	--	240	--	--	21.0	--	--	--	--	--	--
JUL												
06...	1028	--	.97	--	--	--	--	--	--	--	--	--
SEP												
26...	1028	--	.39	--	--	23.0	--	--	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE (MG/L AS HCO3) (00440)	CARBONATE (MG/L AS CO3) (00445)	ALKALINITY (MG/L AS CACO3) (00410)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	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												
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
20...	17	52	1.4	3.7	2	0	2	5.1	11	34	.0	21
JAN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
26...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07365800 CORNIE BAYOU NEAR THREE CREEKS, AR--CONTINUED

DATE	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 AC-FT) (70303)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	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)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
21...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
20...	122	98	.17	.00	.02	.59	.02	.01	0	0	0	0
JAN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT											
11...	--	--	--	--	--	--	--	--	--	9.8	.6
NOV											
21...	--	--	--	--	--	--	--	--	--	9.4	.8
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
20...	0	2	430	0	70	.0	0	0	10	10	.8
JAN											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	--

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

RED RIVER BASIN

07348590 BAYOU DORCHEAT NEAR FALCON, AR

BENTHIC INVERTEBRATE ANALYSES

METHOD OF COLLECTION	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES
DATE	OCT 13,77	OCT 13,77	JUN 27,78	JUN 27,78
TIME	1200	1201	1015	1016
TOTAL COUNT	10	70	46	12
DIVERSITY: PHYLUM	0.0	0.0	0.9	0.0
.CLASS	0.0	1.0	1.7	0.7
..ORDER	0.5	1.9	3.3	1.8
...FAMILY	0.9	2.5	3.4	2.4
....GENUS	0.9	2.5	3.7	2.4
....GENUS-INSECTA	0.9	2.8	2.9	2.0
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.OLIGOCHAETA				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS #5	--	--	6	--
ARTHROPOD(ARTHROPODS				
.INSECTA				
..ODONATA				
...AGRIIDAE				
....AGRION	--	1	--	--
.CRUSTACEA				
..AMPHIPODA				
...TALITRIDAE				
....HYALLELA	--	1	--	2
..DECAPODA				
...ASTACIDAE				
....ORCONECTES	--	4	3	--
...PALAEMONIDAE				
....PALAEMONETES	--	38	2	--
..ISOPODA				
...ASELLIDAE				
....LIRCEUS	--	1	2	--
.INSECTA				
..ODONATA				
...CORDULIIDAE				
....SOMATOCHLORA	--	1	--	--
..HEMIPTERA				
...VELIIDAE				
....VELIA	--	1	--	--
..COLEOPTERA				
...DYTISCIDAE				
....HYDROVATUS	--	--	1	--
...ELMIDAE				
....DUBIRAPHIA	--	--	--	1
....STENELMIS	--	1	--	--
...GYRINIDAE				
....DINEUTUS	1	--	4	--
..DIPTERA				
...CHIRONOMIDAE				
....ABLABESMYIA	--	--	1	1
....PHAENOPSECTRA	--	--	1	--
....RHEOTANYTARSUS	--	--	1	--
....TANYTARSUS	--	5	--	--
..EPHEMEROPTERA				
...CAENIDAE				
....CAENIS	1	1	--	--
...EPHEMERIDAE				
....HEXAGENIA	8	1	12	4
...HEPTAGENIIDAE				
....STENONEMA	--	2	--	3
..HEMIPTERA				
...CORIXIDAE				
....PALMACORIXA	--	--	1	--
..MEGALOPTERANS				
...SIALIDAE				
....SIALIS	--	--	3	1
..ODONATA				
...COENAGRIIDAE				
....ISCHNURA	--	10	--	--
...GOMPHIDAE				
....HAGENIUS	--	--	2	--

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

RED RIVER BASIN--CONTINUED

07348590 BAYOU DORCHEAT NEAR FALCON, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 E MAN GRAB SAMPLES
DATE	OCT 13,77	OCT 13,77	JUN 27,78	JUN 27,78
TIME	1200	1201	1015	1016
ORGANISM	COUNT	COUNT	COUNT	COUNT
..TRICHOPTERA				
...LIMNEPHILIDAE				
....UNKNOWN GENUS	--	1	--	--
...POLYCENTROPODIDAE				
....PHYLOCENTROPUS	--	--	1	--
....POLYCENTROPUS	--	2	--	--
..DIPTERA				
...CHIRONOMIDAE				
....PSECTROCLADIUS	--	--	1	--
.ARACHNIDA				
..HYDRACARINA				
...UNKNOWN FAMILY				
....UNKNOWN GENUS #3	--	--	1	--
.INSECTA				
..DIPTERA				
...CHIRONOMIDAE				
....UNKNOWN GENUS #5	--	--	1	--
MOLLUSCA (MOLLUSCS)				
.BIVALVIA				
..SCHIZODONTA				
...UNIONIDAE				
....LAMPSILIS	--	--	2	--
.GASTROPODA				
..BASOMMATOPHORA				
...ANCYLIDAE				
....FERRISSIA	--	--	1	--

07359500 OUACHITA RIVER NEAR MALVERN, AR

METHOD OF COLLECTION	COMPOSITE OF 3 SUR-BER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SUR-BER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 25,77	JUN 25,77	OCT 14,77	OCT 14,77	JUN 29,78
TIME	0945	0946	0947	0948	0900
TOTAL COUNT	182	256	118	223	67
DIVERSITY: PHYLUM	0.6	1.4	1.3	1.0	0.8
.CLASS	1.2	1.8	1.8	1.9	1.7
..ORDER	2.3	2.3	2.6	2.8	2.7
...FAMILY	2.4	2.3	2.8	2.9	2.7
....GENUS	2.8	2.8	3.0	3.1	2.9
....GENUS-INSECTA	2.0	2.0	2.6	3.1	2.1
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.HIRUDINEA					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS #3	--	3	--	2	2
.OLIGOCHAETA					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS #5	--	--	1	--	--
ARTHROPODA (ARTHROPODS)					
.CRUSTACEA					
..AMPHIPODA					
...TALITRIDAE					
....HYALLELA	16	9	16	68	18
..DECAPODA					
...ASTACIDAE					
....CAMBARUS	--	--	--	1	--
....ORCONECTES	6	--	--	--	1
..ISOPODA					
...ASELLIDAE					
....LIRCEUS	--	--	1	--	--
.INSECTA					
..COLEOPTERA					
...ELMIDAE					
....STENELMIS	--	1	--	1	1

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

RED RIVER BASIN--CONTINUED

07359500 OUACHITA RIVER NEAR MALVERN, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 SUBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SUBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 25,77	JUN 25,77	OCT 14,77	OCT 14,77	JUN 29,78
TIME	0945	0946	0947	0948	0900
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..DIPTERA					
...CERATOPOGONIDAE					
....PROBEZZIA	--	--	1	--	--
...CHIRONOMIDAE					
....CARDIOCLADIUS	19	--	15	5	1
....CRICOTOPUS	--	--	--	--	1
....EUKIEFFERIELLA	--	3	--	1	--
....ORTHOCLADIUS	1	7	--	--	--
....POLYPEDILUM	13	13	10	16	9
....RHEOTANYTARSUS	--	--	--	--	1
...SIMULIIDAE					
....SIMULIUM	1	--	--	--	--
..EPHEMEROPTERA					
...BAETIDAE					
....BAETIS	3	--	--	--	--
....UNKNOWN GENUS	--	--	--	2	--
...CAENIDAE					
....CAENIS	--	--	3	--	--
...HEPTAGENIIDAE					
....STENONEMA	4	--	4	8	2
...SIPHLONURIDAE					
....ISONYCHIA	--	--	--	2	--
..MEGALOPTERANS					
...CORYDALIDAE					
....CORYDALUS	6	1	1	18	3
..ODONATA					
...AGRIIDAE					
....HETAERINA	--	--	--	4	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	77	63	16	15	--
....POTAMYIA	--	--	--	4	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	--	4	--	--
...POLYCENTROPODIDAE					
....PHYLOCENTROPUS	--	--	1	--	--
...HYDROPSYCHIDAE					
....HYDROPSYCHE	8	33	--	7	17
..LEPIDOPTERA					
...PYRALIDIDAE					
....PARARGYACTIS	--	5	--	--	--
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS #3	--	--	--	1	--
MOLLUSCA (MOLLUSCS)					
.BIVALVIA					
..NUCULOIDEA					
...CORBICULIDAE					
....CORBICULA	24	86	37	55	7
.GASTROPODA					
..BASOMMATOPHORA					
...ANCYLIDAE					
....FERRISSIA	--	--	1	1	--
..MESOGASTROPODA					
...PLEUROCERIDAE					
....GONIOBASIS	4	--	--	--	--
...VIVIPARIDAE					
....CAMPELOMA	--	15	--	10	4
PLATYHELMINTHES (FLATWORMS)					
.TURBELLARIA					
..TRICLADIDA					
...PLANARIIDAE					
....UNKNOWN GENUS	--	17	7	2	--

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

RED RIVER BASIN--CONTINUED

07360161 CYPRESS CREEK NEAR SPARKMAN, AR

METHOD OF COLLECTION	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)
DATE	JUN 22,77	JUN 22,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1130	1131	1200	1201	1300	1301
TOTAL COUNT	58	10	1	30	7	53
DIVERSITY: PHYLUM	0.0	0.0	0.0	0.2	0.0	0.7
.CLASS	0.0	0.0	0.0	0.9	0.9	0.9
..ORDER	1.9	1.7	0.0	2.5	2.5	2.2
...FAMILY	2.6	2.0	0.0	3.1	2.5	2.7
....GENUS	2.9	2.0	0.0	3.3	2.5	2.8
....GENUS-INSECTA	2.9	2.0	0.0	3.1	1.9	2.6
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.HIRUDINEA						
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS #3	--	--	--	1	--	--
ARTHROPOD(ARTHROPODS)						
.INSECTA						
..ODONATA						
...AGRIIDAE						
....AGRION	--	--	--	1	--	--
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....ORCONECTES	--	--	--	5	1	1
..ISOPODA						
...ASELLIDAE						
....LIRCEUS	--	--	--	--	1	--
.INSECTA						
..COLEOPTERA						
...ELMIDAE						
....STENELMIS	1	3	--	--	2	5
...GYRINIDAE						
....DINEUTUS	3	--	--	--	--	--
..DIPTERA						
...CHIRONOMIDAE						
....ABLABESMYIA	--	--	--	1	--	--
....EUKIEFFERIELLA	4	--	--	--	--	--
....PHAENOPSECTRA	2	--	--	--	--	--
....RHEOTANYTARSUS	--	--	--	4	--	--
....THIENEMANNIELLA	--	--	--	--	--	1
...SIMULIIDAE						
....SIMULIUM	--	--	--	1	--	--
...TABANIDAE						
....TABANUS	--	--	--	--	1	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	--	--	1	--	--
....UNKNOWN GENUS	--	--	--	1	--	--
...HEPTAGENIIDAE						
....STENONEMA	3	1	--	1	1	--
...SIPHLONURIDAE						
....ISONYCHIA	2	--	--	--	--	1
..HEMIPTERA						
...VELIIDAE						
....MICROVELIA	--	--	--	--	--	1
..MEGALOPTERANS						
...CORYDALIDAE						
....CORYDALUS	--	--	--	--	1	--
..ODONATA						
...AESHNIDAE						
....BOYERIA	7	--	--	3	--	1
...GOMPHIDAE						
....GOMPHUS	--	--	--	--	--	4
....HAGENIUS	--	--	--	1	--	4
...MACROMIIDAE						
....MACROMIA	1	--	--	--	--	--
..PLECOPTERA						
...PERLIDAE						
....PERLESTA	1	--	--	--	--	--
...PERLODIDAE						
....UNKNOWN GENUS	--	--	--	1	--	--
..TRICHOPTERA						
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	2	--	--	--	--	--
...PHILOPOTAMIDAE						
....CHIMARRA	20	4	--	8	--	9
...HYDROPSYCHIDAE						
....HYDROPSYCHE	12	1	--	1	--	15

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

RED RIVER BASIN--CONTINUED

07360161 CYPRESS CREEK NEAR SPARKMAN, AR--CONTINUED

METHOD OF COLLECTION	COLLECTED BY HAND-NET (5-MINUTES	COMPOSITE OF 3 SURBER SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)
DATE	JUN 22,77	JUN 22,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1130	1131	1200	1201	1300	1301
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
..DIPTERA						
...CHIRONOMIDAE						
....UNKNOWN GENUS #5	--	1	--	--	--	--
MOLLUSCA (MOLLUSCS)						
.BIVALVIA						
..NUCULOIDEA						
...CORBICULIDAE						
....CORBICULA	--	--	1	--	--	--
..SCHIZODONTA						
...UNIONIDAE						
....LAMPSILIS	--	--	--	--	--	11

07361650 TERRE ROUGE CREEK NEAR PRESCOTT, AR

METHOD OF COLLECTION	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES
DATE	OCT 12,77	OCT 13,77	JUN 27,78	JUN 27,78
TIME	1200	1200	1315	1316
TOTAL COUNT	12	38	24	13
DIVERSITY: PHYLUM	1.0	0.4	1.0	1.0
.CLASS	1.0	1.2	1.7	1.3
..ORDER	2.1	1.7	2.6	2.3
...FAMILY	2.1	2.3	2.8	2.3
....GENUS	2.5	2.3	3.0	2.5
....GENUS-INSECTA	1.9	2.4	2.5	2.2
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.HIRUDINEA				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS #3	1	--	--	--
ARTHROPODA (ARTHROPODS)				
.CRUSTACEA				
..AMPHIPODA				
...TALITRIDAE				
....HYALLELA	--	--	--	1
..DECAPODA				
...ASTACIDAE				
....ORCONECTES	--	2	--	--
...PALAEMONIDAE				
....PALAEMONETES	--	--	1	--
.....P.KADIAKENSIS	--	22	--	--
..ISOPODA				
...ASELLIDAE				
....LIRCEUS	--	1	--	--
.INSECTA				
..COLEOPTERA				
...ELMIDAE				
....STENELMIS	1	3	--	2
...GYRINIDAE				
....GYRINUS	--	--	1	--
..DIPTERA				
...CHIRONOMIDAE				
....ABLABESMYIA	2	--	1	--
....CHIRONOMUS	--	--	--	1
....EUKIEFFERIELLA	--	1	--	--
....PHAENOPSECTRA	3	--	--	--
....TANYTARSUS	--	--	2	2
...TABANIDAE				
....TABANUS	--	1	--	--
..EPHEMEROPTERA				
...CAENIDAE				
....BRACHYCERCUS	--	--	--	1
....CAENIS	3	--	--	--
..MEGALOPTERANS				
...SIALIDAE				
....SIALIS	--	--	1	1

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

RED RIVER BASIN--CONTINUED

07361650 TERRE ROUGE CREEK NEAR PRESCOTT, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COLLECTED BY HAND-NET (5-MINUTES	COMPOSITE OF 3 EKMAN GRAB SAMPLES
DATE	OCT 12,77	OCT 13,77	JUN 27,78	JUN 27,78
TIME	1200	1200	1315	1316
ORGANISM	COUNT	COUNT	COUNT	COUNT
..ODONATA				
...AESHNIDAE				
....BOYERIA	--	1	--	--
...COENAGRIIDAE				
....ISCHNURA	--	2	--	--
...GOMPHIDAE				
....GOMPHUS	--	--	2	--
...MACROMIIDAE				
....MACROMIA	--	2	--	--
..COLEOPTERA				
...ELMIDAE				
....MACRONYCHUS				
.....M.GLABRATUS	--	--	1	--
MOLLUSCA (MOLLUSCS)				
.BIVALVIA				
..NUCULOIDEA				
...CORBICULIDAE				
....CORBICULA	2	--	9	5
..SCHIZODONTA				
...UNIONIDAE				
....QUADRULA	--	--	1	--
.GASTROPODA				
..MESOGASTROPODA				
...PLEUROCERIDAE				
....PLEUROCERA	--	3	3	--
...VIVIPARIDAE				
....CAMPELOMA	--	--	1	--
.BIVALVIA				
..SCHIZODONTA				
...UNIONIDAE				
....TRITIOGONIA	--	--	1	--

07361660 LITTLE MISSOURI RIVER NEAR WHELEN SPRINGS, AR

METHOD OF COLLECTION	COLLECTED BY HAND-NET (6-MINUTES)	COMPOSITE OF 3 PETERSEN GRAB SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COLLECTED BY HAND-NET (6-MINUTES)
DATE	JAN 20,77	JUN 23,77	JUN 23,77	JUN 23,77	OCT 12,77
TIME	1200	1100	1101	1102	1201
TOTAL COUNT	31	5	44	39	22
DIVERSITY: PHYLUM	0.9	0.7	0.4	0.0	0.5
.CLASS	1.1	0.7	0.4	0.0	0.5
..ORDER	2.7	1.4	1.8	2.0	2.6
...FAMILY	2.9	1.9	1.8	2.5	3.2
....GENUS	3.0	1.9	2.4	3.3	3.4
....GENUS-INSECTA	3.0	1.5	2.2	3.3	3.1
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
.OLIGOCHAETA					
..UNKNOWN ORDER					
...UNKNOWN FAMILY					
....UNKNOWN GENUS #5	--	1	--	--	1
ARTHROPODA (ARTHROPODS)					
.INSECTA					
..COLEOPTERA					
...ELMIDAE					
....DUBIRAPHIA	--	--	1	--	2
....STENELMIS	5	--	3	4	1
...GYRINIDAE					
....DINEUTUS	--	--	--	1	--
....GYRINUS	--	--	--	2	--
..DIPTERA					
...CERATOPOGONIDAE					
....PROBEZZIA	1	--	--	1	--
...CHAOBORIDAE					
....CHAOBORUS	--	1	--	--	--
...CHIRONOMIDAE					
....ABLABESMYIA	1	--	2	--	--
....CHIRONOMUS	--	2	--	--	--
....EUKIEFFERIELLA	1	--	1	--	1
....ORTHOCLADIUS	1	--	--	--	--
....PHAENOPSECTRA	--	--	--	2	--

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

RED RIVER BASIN--CONTINUED

07361660 LITTLE MISSOURI RIVER NEAR WHELEN SPRINGS, AR--CONTINUED

METHOD OF COLLECTION	COLLECTED BY HAND-NET (6-MINUTES)	COMPOSITE OF 3 PETERSEN GRAB SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COLLECTED BY HAND-NET (6-MINUTES)
DATE	JAN 20,77	JUN 23,77	JUN 23,77	JUN 23,77	OCT 12,77
TIME	1200	1100	1101	1102	1201
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..EPHEMEROPTERA					
...BAETIDAE					
....CLOEON	--	--	--	--	4
...CAENIDAE					
....CAENIS	--	--	--	1	--
...EPHEMERIDAE					
....HEXAGENIA	--	1	--	--	--
...HEPTAGENIIDAE					
....STENONEMA	--	--	1	3	1
...SIPHLONURIDAE					
....ISONYCHIA	--	--	--	3	1
...TRICORYTHIDAE					
....TRICORYTHODES	5	--	--	--	1
..HEMIPTERA					
...GERRIDAE					
....RHEUMATOBATES	2	--	--	--	--
..MEGALOPTERANS					
...CORYDALIDAE					
....CORYDALUS	--	--	--	--	2
..ODONATA					
...AESHNIDAE					
....BOYERIA	--	--	--	2	--
...MACROMIIDAE					
....MACROMIA	1	--	--	--	--
..PLECOPTERA					
...PERLIDAE					
....NEOPERLA	1	--	6	1	5
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	2	--	20	10	1
....POTAMYIA	--	--	7	6	--
....HYDROPSYCHE	--	--	--	3	1
MOLLUSCA (MOLLUSCS)					
.BIVALVIA					
..NUCULOIDEA					
...CORBICULIDAE					
....CORBICULA	10	--	3	--	1
.GASTROPODA					
..MESOGASTROPODA					
...PLEUROCERIDAE					
....PLEUROCERA	1	--	--	--	--

07361805 TERRE NOIR CREEK AT VADEN, AR

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 24,77	JUN 24,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1430	1431	1200	1201	1430	1431
TOTAL COUNT	18	46	22	98	12	78
DIVERSITY: PHYLUM	1.3	0.3	1.5	0.8	1.0	1.1
.CLASS	1.3	0.9	1.6	1.9	1.0	1.7
..ORDER	1.5	2.2	2.4	2.6	1.3	2.8
...FAMILY	1.7	3.2	2.7	3.4	1.6	3.2
....GENUS	1.7	3.3	2.9	3.5	1.6	3.3
....GENUS-INSECTA	1.0	2.8	2.9	2.9	1.4	3.0
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.HIRUDINEA						
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS #3	--	--	1	1	--	1
.OLIGOCHAETA						
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS #5	1	--	3	1	--	--

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

RED RIVER BASIN--CONTINUED

07361805 TERRE NOIR CREEK AT VADEN, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (10-MINUTES
DATE	JUN 24,77	JUN 24,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1430	1431	1200	1201	1430	1431
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ARTHROPODA(ARTHROPODS)						
.INSECTA						
..ODONATA						
...AESHNIDAE						
....BASIAESCHNA	--	--	--	1	--	--
.CRUSTACEA						
..AMPHIPODA						
...TALITRIDAE						
....HYALLELA	--	--	--	2	--	1
..DECAPODA						
...ASTACIDAE						
....CAMBARUS	--	1	--	--	--	--
....ORCONECTES	--	2	--	23	--	2
...PALAEMONIDAE						
....PALAEMONETES	--	5	--	22	--	4
.INSECTA						
..COLEOPTERA						
...GYRINIDAE						
....GYRETES	--	2	--	--	--	--
...ELMIDAE						
....MICROCYLLOEPUS	--	--	--	1	--	--
....STENELMIS	--	6	--	1	1	13
...GYRINIDAE						
....DINEUTUS	--	1	--	--	--	2
...HALIPLIDAE						
....PELTODYTES	--	1	--	8	--	--
...HELODIDAE						
....CYPHON	--	1	--	--	--	--
..DIPTERA						
...CERATOPOGONIDAE						
....PROBEZZIA	1	1	--	--	--	--
...CHIRONOMIDAE						
....ABLABESMYIA	--	--	1	--	--	--
....CLADOTANYTARSUS	--	--	--	--	--	5
....DICROTENDIPES	--	--	--	4	--	--
....PHAENOPSECTRA	7	1	--	--	3	--
....POLYPEDILUM	--	--	--	1	--	--
....PSEUDOCHIRONOMUS	--	--	--	--	--	1
....STENOCHIRONOMUS	--	--	2	--	--	--
...SIMULIIDAE						
....SIMULIUM	--	--	--	--	1	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	--	1	--	--	--	--
....CLOEON	--	--	--	3	--	--
...CAENIDAE						
....CAENIS	--	3	1	3	--	1
...EPHEMERIDAE						
....HEXAGENIA	--	--	1	--	--	--
...HEPTAGENIIDAE						
....STENONEMA	--	16	--	--	--	--
...TRICORYTHIDAE						
....TRICORYTHODES	--	--	1	--	--	1
..HEMIPTERA						
...BELOSTOMATIDAE						
....BELOSTOMA	--	--	--	--	--	1
...CORIXIDAE						
....SIGARA	--	1	--	--	--	--
...GERRIDAE						
....RHEUMATOBATES	--	--	--	--	--	1
...HYDROMETRIDAE						
....HYDROMETRA	--	--	--	1	--	--
..MEGALOPTERANS						
...SIALIDAE						
....SIALIS	--	--	--	--	--	3
..ODONATA						
...AESHNIDAE						
....BOYERIA	--	1	--	--	--	3
...COENAGRIIDAE						
....ISCHNURA	--	--	1	2	--	--
...GOMPHIDAE						
....GOMPHUS	--	--	1	--	--	--
....PROGOMPHUS	1	--	--	--	--	--
..TRICHOPTERA						
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	--	1	--	--	--	--
...LIMNEPHILIDAE						
....UNKNOWN GENUS	--	--	1	--	--	2

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

RED RIVER BASIN--CONTINUED

07361805 TERRE NOIR CREEK AT VADEN, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 24,77	JUN 24,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1430	1431	1200	1201	1430	1431
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
••COLEOPTERA						
•••ELMIDAE						
••••ANCYRONYX	--	--	--	--	--	2
•ARACHNIDA						
••HYDRACARINA						
•••UNKNOWN FAMILY						
••••UNKNOWN GENUS #3	--	--	--	5	--	--
MOLLUSCA (MOLLUSCS)						
•BIVALVIA						
••NUCULOIDEA						
•••CORBICULIDAE						
••••CORBICULA	8	--	9	2	7	4
••SCHIZODONTA						
•••UNIONIDAE						
••••ELLIPTIO	--	--	--	1	--	--
••••MEGALONAIAS	--	--	--	--	--	1
•GASTROPODA						
••MESOGASTROPODA						
•••HYDROBIIDAE						
••••AMNICOLA	--	--	--	2	--	--
••••POMATIOPSIS	--	--	--	3	--	--
•••PLEUROCERIDAE						
••••PLEUROCERA	--	2	--	11	--	28
•••VIVIPARIDAE						
••••CAMPELOMA	--	--	--	--	--	2

07361855 TULIP CREEK NEAR OUACHITA, AR

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)
DATE	JUN 24,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1715	1200	1201	1045	1046
TOTAL COUNT	59	38	7	4	73
DIVERSITY: PHYLUM	1.0	0.9	0.0	0.8	1.1
•CLASS	1.6	2.0	0.6	0.8	1.4
••ORDER	3.0	2.9	0.6	0.8	1.9
•••FAMILY	3.4	3.2	0.6	1.5	2.1
••••GENUS	3.6	3.2	0.6	1.5	2.2
••••GENUS-INSECTA	2.9	2.4	0.0	0.0	2.8
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA					
•HIRUDINEA					
••RHYNCHOBDELLIDA					
•••GLOSSIPHONIIDAE					
••••BATRACOBDELLA	--	--	--	--	1
••••HELOBDELLA	--	--	--	--	2
•OLIGOCHAETA					
••UNKNOWN ORDER					
•••UNKNOWN FAMILY					
••••UNKNOWN GENUS #5	3	--	--	--	--
ARTHROPODA (ARTHROPODS)					
•CRUSTACEA					
••AMPHIPODA					
•••TALITRIDAE					
••••HYALLELA	--	--	--	--	1
••DECAPODA					
•••ASTACIDAE					
••••ORCONECTES	5	4	--	--	--
•••PALAEMONIDAE					
••••PALAEMONETES	--	6	--	--	--
••ISOPODA					
•••ASELLIDAE					
••••LIRCEUS	1	--	--	--	--
•INSECTA					

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

RED RIVER BASIN--CONTINUED

07361855 TULIP CREEK NEAR OUACHITA, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COMPOSITE OF 3 EKMAN GRAB SAMPLES	COLLECTED BY HAND-NET (5-MINUTES)
DATE	JUN 24,77	OCT 12,77	OCT 12,77	JUN 28,78	JUN 28,78
TIME	1715	1200	1201	1045	1046
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
..COLEOPTERA					
...ELMIDAE					
....STENELMIS	5	--	--	--	1
...GYRINIDAE					
....DINEUTUS	--	--	--	--	4
....GYRINUS	--	--	--	--	1
...HALIPLIDAE					
....PELTODYTES	--	6	--	--	--
..DIPTERA					
...CHIRONOMIDAE					
....ABLABESMYIA	1	--	--	--	2
....MICROPSECTRA	--	2	--	--	--
....TANYTARSUS	2	--	--	--	--
...TABANIDAE					
....TABANUS	--	1	--	--	--
..EPHEMEROPTERA					
...CAENIDAE					
....CAENIS	--	1	--	--	--
...EPHEMERIDAE					
....HEXAGENIA	--	--	--	--	6
...HEPTAGENIIDAE					
....STENONEMA	--	--	--	--	1
...POLYMITARCYIDAE					
....EPHORON	--	--	--	1	--
...SIPHLONURIDAE					
....ISONYCHIA	3	1	--	--	1
..MEGALOPTERANS					
...CORYDALIDAE					
....CORYDALUS	--	2	--	--	--
...SIALIDAE					
....SIALIS	--	--	--	--	1
..ODONATA					
...AESHNIDAE					
....BOYERIA	2	--	--	--	--
...MACROMIIDAE					
....MACROMIA	--	--	--	--	1
..PLECOPTERA					
...PERLIDAE					
....PERLESTA	1	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....CHEUMATOPSYCHE	2	--	--	--	--
...PHILOPOTAMIDAE					
....CHIMARRA	--	1	--	--	--
...PSYCHOMYIIDAE					
....LYPE	8	--	--	--	--
..EPHEMEROPTERA					
...LEPTOPHLEBIIDAE					
....CHOROTERPES	12	--	--	--	--
..TRICHOPTERA					
...HYDROPSYCHIDAE					
....HYDROPSYCHE	3	--	--	--	--
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS #3	--	3	--	--	--
MOLLUSCA (MOLLUSCS)					
.BIVALVIA					
..NUCULOIDEA					
...CORBICULIDAE					
....CORBICULA	--	1	--	2	1
...SPHAERIIDAE					
....SPHAERIUM	2	--	--	1	2
..SCHIZODONTA					
...UNIONIDAE					
....LAMPSILIS	1	1	1	--	--
.GASTROPODA					
..BASOMMATOPHORA					
...ANCYLIDAE					
....FERRISSIA	--	--	--	--	1
..MESOGASTROPODA					
...VIVIPARIDAE					
....CAMPELOMA	8	9	6	--	47

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

RED RIVER BASIN--CONTINUED

07362000 OUACHITA RIVER AT CAMDEN, AR

METHOD OF COLLECTION	COLLECTED BY HAND-NET (15-MINUTES)	COMPOSITE OF 3 PETERSEN GRAB SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (15-MINUTES)	COLLECTED BY HAND-NET (15-MINUTES)
DATE	JUN 22,77	JUN 22,77	OCT 11,77	OCT 11,77	JUN 28,78
TIME	1600	1601	1200	1201	0845
TOTAL COUNT	7	12	5	10	4
DIVERSITY: PHYLUM	0.0	0.8	1.0	0.5	0.0
.CLASS	0.6	0.8	1.0	1.6	0.0
..ORDER	2.2	0.8	1.0	1.8	0.8
...FAMILY	2.5	0.8	1.4	1.8	2.0
....GENUS	2.5	0.8	1.4	1.8	2.0
....GENUS-INSECTA	2.3	0.0	1.0	1.0	2.0
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT
ARTHROPODA (ARTHROPODS)					
.CRUSTACEA					
..DECAPODA					
...PALAEMONIDAE					
....PALAEMONETES	1	--	--	6	--
.INSECTA					
..COLEOPTERA					
...GYRINIDAE					
....GYRETES	--	--	--	--	1
...DYTISCIDAE					
....HYDROVATUS	1	--	--	--	--
....LACCOPHILUS	--	--	--	--	1
..DIPTERA					
...CHIRONOMIDAE					
....CRYPTOCHIRONOMUS	--	--	--	1	--
....PHAENOPSECTRA	--	3	--	--	--
..EPHEMEROPTERA					
...CAENIDAE					
....CAENIS	1	--	--	--	--
...EPHEMERIDAE					
....HEXAGENIA	--	--	1	1	--
...HEPTAGENIIDAE					
....STENONEMA	1	--	--	--	--
...POTAMANTHIDAE					
....POTAMANTHUS	--	--	1	--	--
..HEMIPTERA					
...GERRIDAE					
....RHEUMATOBATES	1	--	--	--	1
..COLEOPTERA					
...ELMIDAE					
....ANCYRONYX	--	--	--	--	1
.ARACHNIDA					
..HYDRACARINA					
...UNKNOWN FAMILY					
....UNKNOWN GENUS #3	--	--	--	1	--
.INSECTA					
..DIPTERA					
...CHIRONOMIDAE					
....UNKNOWN GENUS #5	2	--	--	--	--
MOLLUSCA (MOLLUSCS)					
.BIVALVIA					
..NUCULOIDEA					
...CORBICULIDAE					
....CORBICULA	--	9	3	1	--

07362550 MORO CREEK NEAR BANKS, AR

METHOD OF COLLECTION	COMPOSITE OF 2 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	OCT 10,77	OCT 10,77	JUN 26,78	JUN 26,78
TIME	1200	1201	1700	1701
TOTAL COUNT	9	31	101	71
DIVERSITY: PHYLUM	0.0	2.0	1.0	2.3
.CLASS	1.8	1.5	1.0	2.2
..ORDER	0.0	2.0	1.8	3.0
...FAMILY	0.0	2.3	1.9	3.4
....GENUS	0.0	2.8	2.1	3.7
....GENUS-INSECTA	0.8	1.7	2.0	3.6

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

RED RIVER BASIN--CONTINUED

07362550 MORO CREEK NEAR BANKS, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 2 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	OCT 10,77	OCT 10,77	JUN 26,78	JUN 26,78
TIME	1200	1201	1700	1701
ORGANISM	COUNT	COUNT	COUNT	COUNT
ANNELIDA				
.HIRUDINEA				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS #3	--	--	--	20
.OLIGOCHAETA				
..UNKNOWN ORDER				
...UNKNOWN FAMILY				
....UNKNOWN GENUS #5	2	1	46	2
ARTHROPODA (ARTHROPODS)				
.CRUSTACEA				
..DECAPODA				
...ASTACIDAE				
....CAMBARUS	--	--	--	5
....ORCONECTES	--	2	--	11
...PALAEMONIDAE				
....PALAEMONETES	--	--	--	2
..ISOPODA				
...ASELLIDAE				
....LIRCEUS	1	--	--	--
.INSECTA				
..ODONATA				
...CORDULIIDAE				
....SOMATOCHLORA	--	1	--	--
..COLEOPTERA				
...GYRINIDAE				
....GYRETES	--	--	1	--
...DYTISCIDAE				
....HYDROPORUS	1	--	--	--
...ELMIDAE				
....RHIZELMIS	--	--	--	1
....STENELMIS	--	2	1	1
...HYDROPHILIDAE				
....HELOPHORUS	3	--	--	--
...LIMNICHIDAE				
....LIMNICHUS	--	2	--	--
....LUTROCHUS	--	13	--	--
....PHYSEMUS	--	1	--	1
..DIPTERA				
...CERATOPOGONIDAE				
....PALPOMYIA	--	--	--	1
...CHIRONOMIDAE				
....ABLABESMYIA	--	--	1	--
....DIPLOCLADIUS	--	--	--	1
....POLYPEDILUM	--	1	--	--
....RHEOTANYTARSUS	--	--	4	--
....STENOCHIRONOMUS	--	--	--	2
....TANYTARSUS	--	--	1	--
....THIENEMANNIELLA	--	--	--	1
...SIMULIIDAE				
....SIMULIUM	--	--	2	--
..EPHEMEROPTERA				
...BAETIDAE				
....BAETIS	--	--	1	--
...EPHEMERELLIDAE				
....EPHEMERELLA	--	--	--	1
...EPHEMERIDAE				
....HEXAGENIA	--	--	--	3
...HEPTAGENIIDAE				
....STENONEMA	--	--	--	5
...POLYMITARCYIDAE				
....EPHORON	--	--	37	--
..MEGALOPTERANS				
...SIALIDAE				
....SIALIS	--	--	--	2
..ODONATA				
...AESHNIDAE				
....BOYERIA	--	--	--	1
...COENAGRIIDAE				
....ISCHNURA	--	--	--	2
..PLECOPTERA				
...PERLIDAE				
....PERLESTA	--	--	1	1
..TRICHOPTERA				
...HYDROPSYCHIDAE				
....CHEUMATOPSYCHE	--	--	3	--
....POTAMYIA	--	--	1	--
....HYDROPSYCHE	--	--	2	--

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

RED RIVER BASIN--CONTINUED

07362550 MORO CREEK NEAR BANKS, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 2 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	OCT 10,77	OCT 10,77	JUN 26,78	JUN 26,78
TIME	1200	1201	1700	1701
ORGANISM	COUNT	COUNT	COUNT	COUNT
MOLLUSCA (MOLLUSCS)				
.BIVALVIA				
..SCHIZODONTA				
...UNIONIDAE				
....LAMPSILIS	--	1	--	3
.GASTROPODA	2	--	--	--
..BASOMMATOPHORA				
...PLANORBIDAE				
....HELISOMA	--	2	--	2
..MESOGASTROPODA				
...VIVIPARIDAE				
....CAMPELOMA	--	5	--	3

07363300 HURRICANE CREEK NEAR SHERIDAN, AR

METHOD OF COLLECTION	COLLECTED BY HAND-NET (10-MINUTES)	COLLECTED BY HAND-NET (10-MINUTES)	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 20,77	OCT 10,77	JUN 29,78
TIME	1430	1050	1045
TOTAL COUNT	12	6	16
DIVERSITY: PHYLUM	0.4	0.0	0.0
.CLASS	1.2	0.7	0.9
..ORDER	1.4	0.7	1.4
...FAMILY	1.4	0.7	1.4
....GENUS	2.2	1.5	1.9
....GENUS-INSECTA	1.6	0.0	0.7
ORGANISM	COUNT	COUNT	COUNT
ANNELIDA			
.OLIGOCHAETA			
..UNKNOWN ORDER			
...UNKNOWN FAMILY			
....UNKNOWN GENUS #5	1	--	--
ARTHROPODA (ARTHROPODS)			
.CRUSTACEA			
..AMPHIPODA			
...TALITRIDAE			
....HYALLELA	--	--	1
..DECAPODA			
...ASTACIDAE			
....CAMBARUS	3	2	8
....ORCONECTES	5	3	2
.INSECTA			
..COLEOPTERA			
...GYRINIDAE			
....GYRETES	1	--	--
....DINEUTUS	1	--	--
..MEGALOPTERANS			
...SIALIDAE			
....SIALIS	--	--	4
..ODONATA			
...COENAGRIIDAE			
....ISCHNURA	--	1	--
..TRICHOPTERA			
...PSYCHOMYIIDAE			
....LYPE	--	--	1
..DIPTERA			
...CHIRONOMIDAE			
....UNKNOWN GENUS #5	1	--	--

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

RED RIVER BASIN--CONTINUED

07363500 SALINE RIVER NEAR RYE, AR

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 15,77	JUN 15,77	OCT 10,77	OCT 10,77	JUN 26,78	JUN 26,78
TIME	0915	0945	1200	1201	1330	1331
TOTAL COUNT	87	36	59	25	12	201
DIVERSITY: PHYLUM	0.0	1.0	0.8	1.0	0.8	0.7
.CLASS	0.1	1.6	1.5	1.2	1.5	1.1
..ORDER	2.0	2.6	2.0	1.9	1.7	1.4
...FAMILY	2.4	3.6	2.6	2.0	1.7	1.7
....GENUS	2.7	3.8	2.6	2.1	1.7	1.8
....GENUS-INSECTA	2.6	3.4	2.6	1.6	0.9	2.0
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
ANNELIDA						
.HIRUDINEA						
..UNKNOWN ORDER						
...UNKNOWN FAMILY						
....UNKNOWN GENUS #3	--	--	--	--	--	1
ARTHROPODA (ARTHROPODS)						
.CRUSTACEA						
..DECAPODA						
...ASTACIDAE						
....CAMBARUS	--	1	--	--	--	--
....ORCONECTES	--	1	2	--	--	1
.INSECTA						
..COLEOPTERA						
...DRYOPIDAE						
....HELICHUS	--	--	--	1	--	--
...ELMIDAE						
....DUBIRAPHIA	--	--	--	2	--	--
....STENELMIS	18	2	2	--	2	10
...GYRINIDAE						
....DINEUTUS	--	1	--	--	--	--
....GYRINUS	--	2	--	--	--	--
...HELODIDAE						
....UNKNOWN GENUS	--	2	--	--	--	--
...HYDROPHILIDAE						
....HELOPHORUS	--	4	--	--	--	--
..DIPTERA						
...CHIRONOMIDAE						
....ABLABESMYIA	9	--	--	--	--	--
....EUKIEFFERIELLA	--	1	--	1	--	--
....MICROPSECTRA	1	--	--	--	--	--
....PARACHIRONOMUS	1	--	--	--	--	--
....POLYPEDILUM	5	--	--	1	--	--
...SIMULIIDAE						
....SIMULIUM	--	1	--	--	--	--
..EPHEMEROPTERA						
...BAETIDAE						
....BAETIS	23	--	--	--	--	--
...CAENIDAE						
....CAENIS	7	--	--	--	--	--
...EPHEMERIDAE						
....HEXAGENIA	--	--	--	--	--	2
...HEPTAGENIIDAE						
....STENONEMA	2	1	--	--	1	--
...POLYMITARCYIDAE						
....CAMPSURUS	--	--	4	--	--	--
...TRICORYTHIDAE						
....TRICORYTHODES	--	1	--	--	--	--
..MEGALOPTERANS						
...CORYDALIDAE						
....UNKNOWN GENUS	--	1	--	--	--	--
..ODONATA						
...AESHNIDAE						
....BOYERIA	--	2	--	--	--	2
...COENAGRIIDAE						
....ISCHNURA	--	2	2	--	--	--
...GOMPHIDAE						
....GOMPHURUS	--	--	2	--	--	--
....PROGOMPHUS	--	--	1	--	--	--
...LIBELLULIDAE						
....ERYTHEMIS	--	--	1	--	--	--
...MACROMIIDAE						
....MACROMIA	--	--	1	--	--	--
..PLECOPTERA						
...PERLIDAE						
....NEOPERLA	--	--	--	10	--	1

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

RED RIVER BASIN--CONTINUED

07363500 SALINE RIVER NEAR RYE, AR--CONTINUED

METHOD OF COLLECTION	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)	COLLECTED BY HAND-NET (10-MINUTES)	COMPOSITE OF 3 SURBER SAMPLES	COMPOSITE OF 3 SURBER SAMPLES	COLLECTED BY HAND-NET (10-MINUTES)
DATE	JUN 15,77	JUN 15,77	OCT 10,77	OCT 10,77	JUN 26,78	JUN 26,78
TIME	0915	0945	1200	1201	1330	1331
ORGANISM	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT
..TRICHOPTERA						
...HYDROPSYCHIDAE						
....CHEUMATOPSYCHE	20	--	--	--	--	--
....UNKNOWN GENUS	--	--	--	--	--	1
...PSYCHOMYIIDAE						
....LYPE	--	--	--	--	--	1
...HYDROPSYCHIDAE						
....HYDROPSYCHE	--	--	--	--	--	14
.ARACHNIDA						
..HYDRACARINA						
...UNKNOWN FAMILY						
....UNKNOWN GENUS #3	1	--	--	--	--	--
MOLLUSCA (MOLLUSCS)						
.BIVALVIA						
..NUCULOIDEA						
...CORBICULIDAE						
....CORBICULA	--	4	9	9	3	18
..SCHIZODONTA						
...UNIONIDAE						
....LAMPSILIS	--	--	1	--	--	1
.GASTROPODA						
..BASOMMATOPHORA						
...PHYSIDAE						
....PHYSA	--	--	1	--	--	--
..MESOGASTROPODA						
...HYDROBIIDAE						
....AMNICOLA	--	--	1	--	--	--
...PLEUROCERIDAE						
....PLEUROCERA	--	7	30	1	6	137
...VIVIPARIDAE						
....CAMPELOMA	--	3	2	--	--	12

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
WHITE RIVER BASIN							
07048000 - WEST FORK WHITE RIVER AT GREENLAND, ARK (LAT 35 58 50 LONG 094 10 25)							
OCT , 1977				MAY , 1978			
25...	1028	4.8	17.0	24...	1028	61	21.5
DEC				JUL			
07...	1028	114	4.0	05...	1028	9.6	28.0
JAN , 1978				AUG			
18...	1028	49	.5	15...	1028	.45	28.5
MAR				SEP			
01...	1028	268	4.5	28...	1028	.86	20.5
APR							
12...	1028	315	13.0				
07048600 - WHITE RIVER NEAR FAYETTEVILLE, ARK. (LAT 36 04 23 LONG 094 04 51)							
OCT , 1977				MAY , 1978			
15...	1028	92	17.5	24...	1028	466	21.0
DEC				JUL			
07...	1028	959	4.5	05...	1028	38	30.5
JAN , 1978				AUG			
18...	1028	163	1.0	15...	1028	22	28.0
MAR				SEP			
01...	1028	1280	5.0	29...	1028	3.6	23.5
APR							
12...	1028	1280	12.0				
07055000 - WHITE RIVER NEAR FLIPPIN, ARK. (LAT 36 18 35 LONG 092 33 28)							
JUN , 1978				AUG , 1978			
07...	1028	790	12.0	31...	1028	322	15.0
07069500 - SPRING RIVER AT IMBODEN, ARK. (LAT 36 12 19 LONG 091 10 19)							
NOV , 1977				MAY , 1978			
02...	1028	3230	16.5	31...	1028	1000	26.5
DEC				JUL			
13...	1028	1310	10.0	12...	1028	974	31.0
MAR , 1978				AUG			
08...	1028	4990	.0	23...	1028	434	19.0
APR							
18...	1028	1660	20.5				
07072000 - ELEVENPOINT RIVER NR RAVENDEN SPRINGS, ARK. (LAT 36 20 48 LONG 091 06 48)							
MAR , 1978				JUL , 1978			
07...	1028	2180	9.5	12...	1028	774	24.0
07076850 - CYPRESS BAYOU NEAR BEEBE, ARK (LAT 35 01 30 LONG 091 52 23)							
NOV , 1977							
04...	1028	798	17.0				
07077380 - CACHE RIVER AT EGYPT, ARK (LAT 35 51 28 LONG 090 56 00)							
NOV , 1977				MAY , 1978			
01...	1028	52	18.0	30...	1028	94	26.5
DEC				JUL			
13...	1028	560	3.5	13...	1028	1780	27.5
MAR , 1978				AUG			
06...	1028	2510	3.0	24...	1028	170	25.0
APR							
19...	1028	288	16.0				
07077950 - BIG CREEK AT POPLAR GROVE, ARK. (LAT 34 33 20 LONG 090 50 44)							
OCT , 1977				MAR , 1978			
12...	1028	1060	15.5	27...	1028	530	11.0
NOV				MAY			
29...	1028	632	6.0	09...	1028	2160	19.5
DEC				JUN			
15...	1028	896	6.0	19...	1028	173	23.0
JAN , 1978				JUL			
04...	1028	70	6.0	31...	1028	46	27.5
FEB				SEP			
06...	1028	1420	.5	11...	1028	381	23.5

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN

07195800 - FLINT CREEK AT SPRINGTOWN, ARK. (LAT 36 15 20 LONG 094 25 50)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
26...	1028	4.9	16.0
DEC			
08...	1028	11	11.0
JAN , 1978			
23...	1028	6.8	7.5
MAR			
02...	1028	29	7.5
APR , 1978			
13...	1028	49	16.0
MAY			
25...	1028	9.1	16.5
JUL			
05...	1028	10	20.0
AUG			
16...	1028	5.8	20.5

07247000 - POTEAU RIVER AT CAUTHRON, ARK. (LAT 34 55 08 LONG 094 17 55)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
04...	1028	1.9	20.5
NOV			
03...	1028	42	16.0
DEC			
13...	1028	13	6.0
JAN , 1978			
27...	1028	120	1.0
MAR			
09...	1028	594	5.0
APR , 1978			
21...	1028	42	16.5
MAY			
31...	1028	30	25.0
JUL			
11...	1028	1.2	30.0
AUG			
21...	1028	.15	29.5

07252000 - MULBERRY RIVER NEAR MULBERRY, ARK. (LAT 35 34 37 LONG 094 00 55)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
12...	1028	87	13.5
NOV			
22...	1028	811	14.5
JAN , 1978			
04...	1028	154	2.0
FEB			
15...	1028	1150	3.5
MAR			
29...	1028	1320	12.0
MAY , 1978			
08...	1028	3760	16.5
JUN			
21...	1028	101	26.0
AUG			
03...	1028	6.5	30.0
SEP			
14...	1028	4.6	25.5
14...	1028	4.6	25.5

07257000 - BIG PINEY CREEK NEAR DOVER, ARK. (LAT 35 32 58 LONG 093 09 30)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
12...	1028	39	16.5
NOV			
22...	1028	499	14.0
JAN , 1978			
04...	1028	114	2.5
FEB			
15...	1028	897	3.5
MAR			
30...	1028	726	12.0
MAY , 1978			
11...	1028	912	16.5
JUN			
20...	1028	48	26.0
AUG			
02...	1028	5.2	29.5
SEP			
13...	1028	1.8	27.0

07260500 - PETIT JEAN RV AT DANVILLE ARK. (LAT 35 03 33 LONG 093 23 44)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
12...	1028	4.3	17.5
19...	1028	4.0	15.0
NOV			
08...	1028	9.3	17.5
DEC			
21...	1028	25	5.0
FEB , 1978			
02...	1028	127	3.0
MAR			
01...	1028	1290	4.0
03...	1028	1740	4.5
07...	1028	1620	5.0
08...	1028	2010	5.0
15...	1028	1640	6.5
APR , 1978			
04...	1028	1910	15.0
07...	1028	581	17.0
27...	1028	89	17.0
MAY			
08...	1028	5510	18.5
10...	1028	2090	17.0
JUN			
08...	1028	438	23.0
JUL			
18...	1028	40	29.0
AUG			
31...	1028	30	26.5

07261000 - CADRON CREEK NEAR GUY, ARK. (LAT 35 17 56 LONG 092 24 10)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
NOV , 1977			
21...	1028	1170	14.0
DEC			
16...	1028	674	13.0
JAN , 1978			
23...	1028	321	2.5
MAR			
07...	1028	1660	7.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

ARKANSAS RIVER BASIN--CONTINUED

07263000 - SO FOURCHE LA FAVE RIV NR HOLLIS, ARK. (LAT 34 54 41 LONG 093 03 21)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)	DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
APR , 1978				JUL , 1978			
26...	1028	181	17.0	17...	1028	5.4	34.0
JUN				AUG			
09...	1028	220	22.0	31...	1028	33	24.0

RED RIVER BASIN

07337000 - RED RIVER AT INDEX,ARK (LAT 33 33 07 LONG 094 02 28)

OCT , 1977				MAY , 1978			
06...	1028	3890	20.5	12...	1028	8030	22.0
NOV				JUN			
14...	1028	2710	11.5	16...	1028	27600	26.0
DEC				JUL			
21...	1028	1850	9.0	18...	1028	3500	30.0
FEB , 1978				SEP			
14...	1028	4250	5.5	06...	1028	4580	30.0
MAR							
31...	1028	21600	17.5				

07339500 - ROLLING FORK NR. DE QUEEN, ARK (LAT 34 02 51 LONG 094 24 47)

OCT , 1977				MAY , 1978			
05...	1028	3.4	20.0	10...	1028	1280	16.5
NOV				JUN			
15...	1028	7.1	13.0	15...	1028	36	24.5
DEC				JUL			
30...	1028	7.4	6.0	20...	1028	18	28.0
FEB , 1978				SEP			
08...	1028	8.8	1.5	08...	1028	23	27.5
APR							
05...	1028	92	16.5				

07340300 - COSSATOT RIVER NEAR VANDERVOORT, ARK. (LAT 34 22 46 LONG 094 14 08)

NOV , 1977				JUN , 1978			
04...	1028	56	14.5	01...	1028	49	24.0
DEC				JUL			
14...	1028	54	6.5	12...	1028	11	28.0
MAR , 1978				AUG			
10...	1028	349	8.0	22...	1028	11	26.5
APR							
20...	1028	174	17.0				

07340500 - COSSATOT RIVER NEAR DEQUEEN, ARK. (LAT 34 02 45 LONG 094 12 42)

OCT , 1977				MAY , 1978			
05...	1028	22	20.5	10...	1028	1980	15.5
NOV				JUN			
15...	1028	131	14.0	14...	1028	123	24.5
DEC				JUL			
29...	1028	26	6.5	20...	1028	58	29.5
FEB , 1978				SEP			
07...	1028	98	3.5	07...	1028	46	27.5
APR							
05...	1028	321	15.5				

07341000 - SALINE RIVER NEAR DIERKS, ARK. (LAT 34 05 45 LONG 094 05 04)

OCT , 1977				MAY , 1978			
04...	1028	4.0	20.5	09...	1028	454	--
NOV				JUN			
18...	1028	48	13.5	14...	1028	48	26.0
DEC				JUL			
29...	1028	41	7.0	20...	1028	26	30.5
FEB , 1978				SEP			
07...	1028	53	3.0	07...	1028	11	27.5
APR							
07...	1028	62	18.5				

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

RED RIVER BASIN--CONTINUED

07361500 - ANTOINE RIVER AT ANTOINE, ARKANSAS (LAT 34 02 20 LONG 093 25 05)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
19...	1028	2.4	14.0
DEC			
09...	1028	101	7.0
JAN , 1978			
23...	1028	240	3.0
FEB			
28...	1028	184	7.0
APR			
10...	1028	69	20.5
MAY , 1978			
22...	1028	189	22.0
JUL			
05...	1028	294	29.0
AUG			
14...	1028	7.0	28.0
SEP			
25...	1028	19	23.5

07362500 - MORO CREEK NEAR FORDYCE, ARKANSAS (LAT 33 47 32 LONG 092 19 30)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
DEC , 1977			
01...	1028	21	8.0
FEB , 1978			
08...	1028	51	.5
MAR			
29...	1028	150	15.5
MAY			
10...	1028	208	19.0
JUN , 1978			
21...	1028	9.2	24.0
AUG			
01...	1028	.87	26.0
SEP			
12...	1028	1.5	23.0

07363000 - SALINE RIVER AT BENTON, ARK. (LAT 34 34 05 LONG 092 36 40)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
18...	1028	29	15.5
DEC			
01...	1028	3080	9.5
JAN , 1978			
30...	1028	885	2.5
FEB			
23...	1028	587	4.5
APR , 1978			
04...	1028	300	18.0
MAY			
19...	1028	395	19.0
JUN			
26...	1028	95	30.0
SEP			
27...	1028	80	22.0

07363200 - SALINE RIVER NEAR SHERIDAN, ARK. (LAT 34 06 56 LONG 092 24 21)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
11...	1028	58	17.0
NOV			
28...	1028	551	10.0
JAN , 1978			
03...	1028	353	6.0
FEB			
13...	1028	1000	4.0
MAR			
29...	1028	1490	21.0
MAY , 1978			
10...	1028	6940	18.5
JUN			
22...	1028	272	25.0
AUG			
01...	1028	43	29.0
SEP			
12...	1028	92	25.0

07364150 - BAYOU BARTHOLOMEW NEAR MCGEHEE, ARK (LAT 33 37 40 LONG 091 26 45)

DATE	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1977			
13...	1028	52	14.0
DEC			
02...	1028	145	10.0
JAN , 1978			
05...	1028	44	9.0
FEB			
09...	1028	1380	1.0
MAR			
28...	1028	238	16.0
MAY , 1978			
11...	1028	1030	21.0
JUN			
20...	1028	332	25.0
AUG			
02...	1028	31	28.5
SEP			
14...	1028	82	24.0

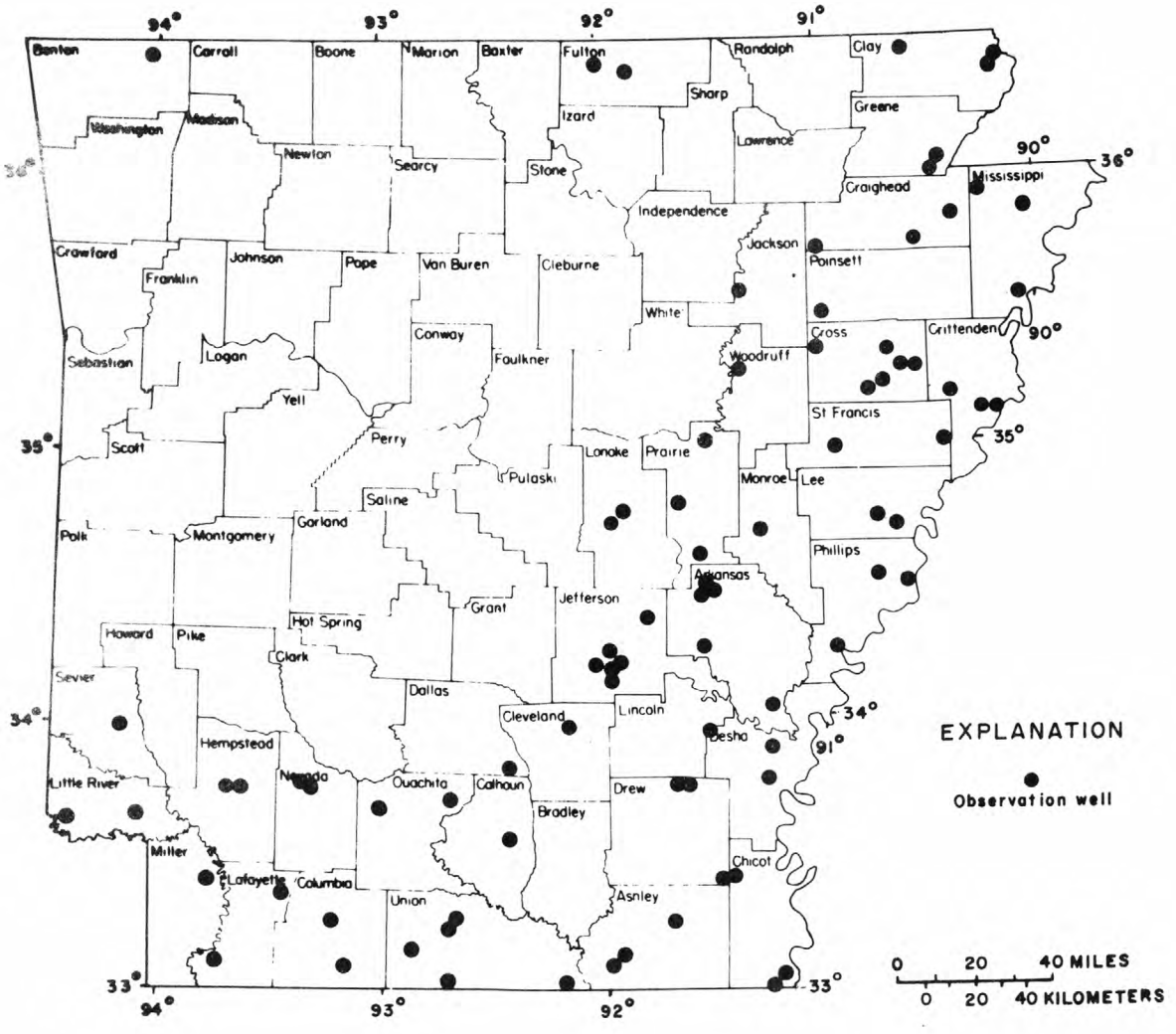


Figure 5.--Locations of observation wells in Arkansas.

ARKANSAS COUNTY

340529091154801. Local number, 07S02W17BBA1.
LOCATION.--Lat 34°05'29", long 91°15'48", Hydrologic Unit 08020401, near Tichnor.
Owner: Sam Whiting.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5-2 in (0.13-0.05 m), depth 95 ft (29 m), cased 0-92 ft (0-28 m), screened 92-95 ft (28-29 m).
DATUM.--Land-surface, 183.38 ft (55.89 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.60 ft (0.79 m) above land surface.
PERIOD OF RECORD.--December 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.09 ft (12.22 m) below land surface, Apr. 20, 1962; lowest, 74.09 ft (22.58 m) below land surface, July 24, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1978, 50.33 ft (15.34 m) below land surface.

341537091314001. Local number, 05S05W15ADD1.
LOCATION.--Lat 34°15'37", long 91°31'40", Hydrologic Unit 08020402, near Bayou Meto.
Owner: J. W. Freeman.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18-8 in (0.46-0.20 m), depth 110 ft (34 m), screened 65-105 ft (20-32 m).
DATUM.--Land-surface, 193 ft (59 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--November 1954, April 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.45 ft (15.38 m) below land surface, Apr. 1, 1975; lowest, 56.09 ft (17.10 m) below land surface, Sept. 16, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar 22, 1978, 51.87 ft (15.81 m) below land surface.

342839091322601. Local number, 03S05W03BBB1.
LOCATION.--Lat 34°28'39", long 91°32'26", Hydrologic Unit 08020402, near Stuttgart.
Owner: J. R. Oliver.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 24 in (0.61 m), depth 125 ft (38 m).
DATUM.--Land surface, 216.2 ft (65.9 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing at land surface.
REMARKS.--Water-quality records for 1969 available in files of district office.
PERIOD OF RECORD.--May 1928 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 79.05 ft (24.09 m) below land surface, May 20, 1928; lowest, 106.57 ft (32.48 m) below land surface, Aug. 12, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	105.11	104.63	104.05	104.35	104.45	104.28	104.02	103.74	103.98	104.23	104.92	105.10
10	104.78	104.88	105.17	104.76	104.11	103.96	103.70	104.13	104.08	104.36	104.83	105.09
15	104.84	104.60	104.32	104.42	104.15	103.98	104.04	103.78	104.09	104.42	104.91	105.13
20	104.76	104.54	104.39	104.31	103.99	104.10	103.91	104.02	104.05	104.58	105.00	105.17
25	104.67	104.51	104.43	103.66	104.02	103.94	103.99	103.87	104.01	104.66	105.08	105.17
EOM	104.58	104.39	104.38	104.47	103.93	104.05	103.67	103.90	104.18	104.67	105.23	104.98

WTR YR 1978 MAX 103.46 FEB. 13, 1978 MIN 105.35 SEPT. 23, 1978

342842091303401. Local number, 03S05W02AAB1.
LOCATION.--Lat 34°28'42", long 91°30'34", Hydrologic Unit 08020402, near Stuttgart.
Owner: Clarence Weaver.
AQUIFER.--Sparta sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 801 ft (244 m), screened 698-798 ft (213-243 m).
DATUM.--Land surface, 210 ft (64 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1950 available in files of district office.
PERIOD OF RECORD.--March 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.22 ft (18.05 m) below land surface, Mar. 29, 1951; lowest, 157.98 ft (48.15 m) below land surface, Sept. 12, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 4, 1978, 135.32 ft (41.25 m) below land surface.

342924091315301. Local number, 02S05W34BDA1.
LOCATION.--Lat 34°29'24", long 91°31'53", Hydrologic Unit 08020402, near Stuttgart.
Owner: Alfred Heien.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 28 in (0.71 m), depth 760 ft (232 m).
DATUM.--Land surface, 216 ft (66 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft (0.15 m) above land surface.
REMARKS.--Water-level fluctuations caused largely by nearby irrigation pumpage. Water-quality records for 1969 available in files of district office.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 89.52 ft (27.29 m) below land surface, Apr. 27, 1961; lowest, 252.52 ft (76.97 m) below land surface, Aug. 11, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	176.42	162.25	154.82	149.81	146.26	143.34	139.15	136.94	154.95	207.79	238.69	
10	173.18	161.08	154.31	149.39	145.81	142.69	138.66	136.62	151.42	210.12	250.79	
15	170.93	159.72	153.16	148.69	145.27	142.23	138.34	136.13	---	217.10	---	
20	168.24	158.39	152.33	148.07	144.57	141.63	137.89	140.31	---	235.37	---	
25	165.98	157.12	151.14	147.09	144.30	140.51	137.41	143.08	---	232.21	---	
EOM	163.95	155.97	150.42	146.96	143.83	139.77	137.28	163.04	192.82	246.59	---	

WTR YR 1978 MAX 136.11 MAY 15, 1978 MIN 252.52 AUG. 11, 1978

330624091552801. Local number, 18S08W28DDD2.
LOCATION.--Lat 33°06'24", long 91°55'28", Hydrologic Unit 08040205, near Crossett.
Owner: Georgia-Pacific Paper Co.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 155 ft (47 m), screened 142-152 ft (43-46 m).
DATUM.--Land surface, 163.26 ft (49.76 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.27 ft (1.00 m) above land surface.
PERIOD OF RECORD.--June 1960 to August 1963, April 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 87.91 ft (26.79 m) below land surface, Feb. 12, 1978; lowest, 93.28 ft (28.43 m) below land surface, Aug. 22, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.74	88.69	88.49	88.40	88.73	88.78	88.53	14.89	88.48	88.54	88.58	88.42
10	88.65	89.10	89.13	89.01	88.49	88.51	88.26	14.94	88.66	88.54	88.40	88.50
15	88.64	88.40	88.56	88.70	88.76	88.59	88.61	---	88.56	88.39	88.54	88.58
20	88.69	88.58	88.91	88.69	88.47	88.60	88.59	---	88.44	88.55	88.61	88.53
25	88.59	88.60	88.77	88.67	88.50	88.60	88.66	---	88.39	88.49	88.46	88.43
EOM	88.59	88.37	88.59	88.70	88.32	88.56	14.88	---	88.45	88.52	88.68	88.50

WTR YR 1978 MAX 87.91 FEB. 12, 1978 MIN 89.24 DEC. 6, 9, 10, 1977

331015091523801. Local number, 18S08W01DBA1.
LOCATION.--Lat 33°10'15", long 91°52'38", Hydrologic Unit 08040205, near Crossett.
Owner: Earl Daugherty and Sons.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in (0.46 m), depth 128 ft (39 m), cased 0-108 ft (0-33 m).
DATUM.--Land surface, 179 ft (55 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.60 ft (0.18 m) above land surface.
REMARKS.--Water-quality records for 1947 available in files of district office.
PERIOD OF RECORD.--April 1946, April 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.90 ft (21.61 m) below land surface, Apr. 23, 1946; lowest, 86.71 ft (26.43 m) below land surface, Sept. 16, 1970.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1978, 84.08 ft (25.63 m) below land surface.

331729091424001. Local number, 16S06W27BAB1.
LOCATION.--Lat 33°17'29", long 91°42'40", Hydrologic Unit 08040205, near Mist.
Owner: E. T. Muller.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m), depth 115 ft (35 m).
DATUM.--Land surface, 182 ft (55 m) National Geodetic Vertical Datum of 1929. Measuring point: Cutout in east side of casing, 1.20 ft (0.37 m) above land surface.
PERIOD OF RECORD.--April 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.45 ft (22.08 m) below land surface, Mar. 6, 1972; lowest, 75.42 ft (22.99 m) below land surface, Mar. 22, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1978, 75.42 ft (22.99 m) below land surface.

BENTON COUNTY

362636094012601. Local number, 21N29W35DDB1.
LOCATION.--Lat 36°26'36", long 94°01'26", Hydrologic Unit 11070208, at Pea Ridge National Park.
Owner: National Park Service.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled recreation artesian well, diameter 10 in (0.25 m), depth 1,769 ft (539 m), cased 0-416 ft (0-127 m), open hole 416-1,769 ft (127-539 m).
DATUM.--Land surface, 1,406 ft (429 m) National Geodetic Vertical Datum of 1929. Measuring point: Airhole in top of casing, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1965 and 1977 are available in files of district office.
PERIOD OF RECORD.--October 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 294.00 ft (89.61 m) below land surface, Oct. 12, 1965; lowest, 320.22 ft (97.60 m) below land surface, June 8, 1967.
MEASUREMENT FOR CURRENT YEAR.--May 3, 1978, 315.27 ft (96.09 m) below land surface.

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 (0.46-0.15 m), depth 450 ft (137 m)
DATUM.--Land surface, 202 ft (62 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in south side of pump, 2.50 ft (0.76 m) above land surface.
PERIOD OF RECORD.--July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 134.49 ft (40.99 m) below land surface, July 6, 1964; lowest, 158.24 ft (48.23 m) below land surface, Sept. 28, 1970.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1978, 156.66 ft (47.75 m) below land surface.

CHICOT COUNTY

330215091120501. Local number, 19S01W21AAA1.
LOCATION.--Lat 33°02'15", long 91°12'05", Hydrologic Unit 0805002, near Readland.
Owner: C. M. Rankin.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 24 in (0.61 m), depth 102 ft (31 m).
DATUM.--Land surface, 110 ft (34 m) above mean sea level. Measuring point: Top of casing, north side, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1952 available in files of district office.
PERIOD OF RECORD.--March 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.65 ft (0.20 m) below land surface, Mar. 29, 1973; lowest, 32.96 ft (10.05 m) below land surface, Oct. 2, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1978, 16.43 ft (5.01 m) below land surface.

330640091154103. Local number, 18S02W25ABB3.
LOCATION.--Lat 33°06'40", long 91°15'41", Hydrologic Unit 08050002, at Gordon Street and Highway No. 8, at Eudora (city well no. 3).
Owner: City of Eudora.
AQUIFER.--Sand, Cockfield Formation of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 18-6 in (0.46-0.15 m), depth 330 ft (101 m).
DATUM.--Land surface, 135 ft (41 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump base, 2.50 ft (0.76 m) above land surface.
REMARKS.--Water-quality records for 1970 and 1975 available in files of the district office.
PERIOD OF RECORD.--January 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.75 ft (11.20 m) below land surface, Mar. 20, 1975; lowest, 45.47 ft (13.86 m) below land surface, Jan. 17, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1978, 42.18 ft (12.86 m) below land surface.

332628091261201. Local number, 14S03W32BCD1.
LOCATION.--Lat 33°26'28", long 91°26'12", Hydrologic Unit 08050001, near Jerome.
Owner: Multiponics Inc.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16-12 in (0.41-0.30 m), depth 120 ft (37 m).
DATUM.--Land surface, 130 ft (40 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in (0.05-m) pipe, southwest side of pump, 2.50 ft (0.76 m) above land surface.
REMARKS.--Water-quality records for 1970 available in files of district office.
PERIOD OF RECORD.--April 1955 to March 1961, March 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.51 ft (6.86 m) below land surface, Mar. 28, 1960; lowest, 28.85 ft (8.79 m) below land surface, Mar. 7, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1978, 25.25 ft (7.70 m) below land surface.

CLAY COUNTY

362311090111002. Local number, 20N08E11BAC2.
LOCATION.--Lat 36°23'11", long 90°11'10", Hydrologic Unit 08020203, at municipal light plant, Piggott (well no. 2).
Owner: City of Piggott.
AQUIFER.--Nacatoch Sand of Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, depth 1,000 ft (305 m).
DATUM.--Land surface, 290 ft (88 m) National Geodetic Vertical Datum of 1929. Measuring point: 1-in (0.03-m) hole in bottom of discharge pipe, 4.00 ft (1.22 m) above land surface.
REMARKS.--Well in vicinity of continuously pumping wells.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.05 ft (1.23 m) below land surface, Mar. 25, 1969; lowest 18.49 ft (5.64 m) below land surface, Apr. 13, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1978, 17.25 ft (5.26 m) below land surface.

362502090095801. Local number, 21N08E36ABB1.
LOCATION.--Lat 36°25'02", long 90°09'58", Hydrologic Unit 08020203, near Piggott.
Owner: A. L. Freytag.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 90 ft (27 m), cased 0-70 ft (0-21 m), screened 70-90 ft (21-27 m).
DATUM.--Land surface, 283 ft (86 m) National Geodetic Vertical Datum of 1929. Measuring point: ¼-in (0.01-m) plug in north side of pump, 1.00 ft (0.30 m) above land surface.
REMARKS.--Well commonly flows in the early spring.
PERIOD OF RECORD.--June 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.35 ft (0.11 m) above land surface, Mar. 29, 1974; lowest, 9.48 ft (2.89 m) below land surface, Jan. 15, 1957.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, water level at land surface.

362759090332401. Local number, 21N05E17ABB1.
LOCATION.--Lat 36°27'59", long 90°33'24", Hydrologic Unit 11010007, near Corning.
Owner: D and E Farms.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 105 ft (32 m).
DATUM.--Land surface, 300 ft (91 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft (0.15 m) above land surface.
PERIOD OF RECORD.--June 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.91 ft (3.33 m) below land surface, Apr. 4, 1973; lowest, 20.88 ft (6.36 m) below land surface, Mar. 11, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 12.33 ft (3.76 m) below land surface.

CLEVELAND COUNTY

335729092112002. Local number, 09S11W01DDA2.
LOCATION.--Lat 33°57'29", long 92°11'20", Hydrologic Unit 08040204, at Rison.
Owner: Town of Rison.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10-6 in (0.25-0.15 m), depth 550 ft (168 m), cased 0-500 ft (0-152 m), screened 500-550 ft (152-168 m).
DATUM.--Land surface, 266 ft (81 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--November 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 151.20 ft (46.09 m) below land surface, May 13, 1966; lowest, 183.81 ft (55.82 m) below land surface, Mar. 31, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1978, 183.13 ft (55.82 m) below land surface.

COLUMBIA COUNTY

330557093114601. Local number, 19S20W08DAD1.
LOCATION.--Lat 33°05'57", long 93°11'46", Hydrologic Unit 11140203, at Emerson.
Owner: Town of Emerson.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8-4 in (0.20-0.10 m), depth 451 ft (137 m), cased 0-431 ft (0-131 m), screened 431-451 ft (131-137 m).
DATUM.--Land surface, 320 ft (98 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in cap, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--October 1950, March 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 200.02 ft (60.97 m) below land surface, Oct. 12, 1950; lowest, 260.19 ft (79.31 m) below land surface, Apr. 12, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 244.54 ft (74.54 m) below land surface.

331609093144902. Local number, 17S21W11DCC2.
LOCATION.--Lat 33°16'09", long 93°14'49", Hydrologic Unit 11140203, at Magnolia (city well no. 2).
Owner: City of Magnolia.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused public-supply artesian well, diameter 8 in (0.20 m), depth 428 ft (130 m), cased 0-365 ft (0-111 m), screened 365-425 ft (111-130 m).
DATUM.--Land surface, 303 ft (92 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.30 ft (0.40 m) above land surface.
REMARKS.--Well in vicinity of continuously pumping wells.
PERIOD OF RECORD.--April 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 238.11 ft (72.58 m) below land surface, Apr. 29, 1953; lowest, 354.39 ft (108.02 m) below land surface, Sept. 1, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 324.43 ft (98.89 m) below land surface.

CRAIGHEAD COUNTY

354246090503801. Local number, 13N02E35DAA1.
LOCATION.--Lat 35°42'46", long 90°50'38", Hydrologic Unit 08020302, near Otwell.
Owner: A. B. Clark.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused irrigation water-table well, diameter 12 in (0.30 m), depth 120 ft (37 m), screened 100-120 ft (30-37 m).
DATUM.--Land surface, 250 ft (76 m) 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 (15.30 m) below land surface, June 19, 1957; lowest 72.12 ft (21.98 m) below land surface, Aug. 17, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	70.87	70.54	70.22	70.09	70.26	70.10	69.83	69.89	70.75	71.06	71.73	71.74
10	70.77	70.71	70.94	70.72	69.94	69.80	69.66	70.02	70.71	71.43	71.72	71.69
15	70.77	70.41	70.19	70.29	70.18	70.01	69.89	69.70	70.56	71.28	71.82	71.69
20	70.73	70.50	70.46	70.20	69.82	69.87	69.91	69.76	70.43	71.44	71.92	71.61
25	70.62	70.45	70.51	69.47	70.03	69.91	69.89	69.74	70.34	71.88	71.82	71.55
EOM	70.58	70.12	70.24	70.32	69.82	69.82	69.65	70.19	70.36	71.72	71.86	71.54

WTR YR 1978 MAX 69.26 FEB. 13, 1978 MIN 72.05 JULY 27, 1978

354921090281201. Local number, 14N06E20CCD1.
LOCATION.--Lat 35°49'21", long 90°28'12", Hydrologic Unit 08020203, near Lake City.
Owner: Harley Box.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 8-6 in (0.20-0.15 m), depth 150 ft (46 m), casing, slotted, 125-150 ft (38-46 m).
DATUM.--Land surface, 226 ft (69 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, south side, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.60 ft (0.18 m) below land surface, Apr. 9, 1973; lowest, 5.79 ft (1.76 m) below land surface, Sept. 16, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 2.88 ft (0.88 m) below land surface.

354437090335701. Local number, 13N05E21BDD1.
LOCATION.--Lat 35°44'37", long 90°33'57", Hydrologic Unit 08020203.
Owner: Town of Bay.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in (0.41 m), depth 147 ft (45 m), cased 0-97 ft (0-30 m), screened 97-127 ft (30-39 m), cased 127-147 ft (39-45 m).
DATUM.--Land surface, 226 ft (69 m) National Geodetic Vertical Datum of 1929. Measuring point: Breather-pipe hole, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records available: December 1976.
PERIOD OF RECORD.--March 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.10 ft (2.16 m) below land surface Apr. 9, 1973; lowest, 11.72 ft (3.57 m) below land surface Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 10.61 ft (3.23 m) below land surface.

CRITTENDEN COUNTY

351043090235901. Local number, 07N07E31CCC1.
LOCATION.--Lat 35°10'43", long 90°23'59", Hydrologic Unit 08020203, near Lansing.
Owner: John McKnight.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in (0.41 m), depth 98 ft (30 m).
DATUM.--Land surface, 207 ft (63 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in steel plate, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--March 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.31 ft (3.75 m) below land surface, May 17, 1958; lowest, 19.37 ft (5.90 m) below land surface, Sept. 2, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 18.60 ft (5.67 m) below land surface.

350843090105901. Local number, 06N09E18BBB1.
LOCATION.--Lat 35°08'43", long 90°10'59", Hydrologic Unit 08020203.
Owner: City of West Memphis.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in (0.25 m), depth 1,504 ft (458 m), cased 0-1,444 ft (0-440 m), screened 1,444-1,504 ft (440-458 m).
DATUM.--Land surface, 210 ft (64 m) National Geodetic Vertical Datum of 1929. Measuring point: At brass plug in pump base, 3.85 ft (1.2 m) above land surface.
REMARKS.--Water-quality records available for city well No. 5: December 1976.
PERIOD OF RECORD.--March 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.75 ft (10.0 m) below land surface, Apr. 8, 1975; lowest, 54.55 ft (16.63 m) below land surface, Mar. 30, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 54.55 ft (16.63 m) below land surface.

CROSS COUNTY

351042090332002. Local number, 07N05E03BCD2.
LOCATION.--Lat 35°15'42", long 90°33'20", Hydrologic Unit 08020203.
Owner: Parkin Water Company.
AQUIFER.--Sand, Memphis Aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, depth 500 ft (152 m).
DATUM.--Land surface, 211 ft (64 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe south side of pump, 1.0 ft (0.30 m) above land surface.
REMARKS.--Water-quality records available: For city well 04N05E04ADB1: December 1946.
PERIOD OF RECORD.--November 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.99 ft (7.62 m) below land surface, Mar. 26, 1944; lowest, 29.65 ft (9.04 m) below land surface, Mar. 29, 1948.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 29.65 ft (9.04 m) 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 Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well. Diameter 10 in (0.25 m), depth 1,148 ft (350 m), cased 0-1,038 ft (0-316 m), screened 1,038-1,148 ft (316-350 m).
DATUM.--Land surface, 429 ft (130 m) National Geodetic Vertical Datum of 1929i Measuring point: Top of 1-in (0.03 m) pipe in pump base, 2.5 ft (0.76 m) above land surface.
REMARKS.--Water-quality records available: December 1976.
PERIOD OF RECORD.--July 26, 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest Water level measured, 240.47 ft (73.3 m) below land surface, Mar. 22, 1976; lowest, 247.60 ft (75.47 m) below land surface, Apr. 19, 1948.
MEASUREMENT FOR CURRENT YEAR.--Apr. 19, 1978, 247.60 ft (75.47 m) 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.--Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-10 in (0.41-0.25 m), depth 800 ft (244 m), cased 730 ft (223 m), screened 730-800 ft (223-244 m).
DATUM.--Land surface, 253 ft (77 m) National Geodetic Vertical Datum of 1929. Measuring point: Bottom of large opening in north side of pump, 3.00 ft (0.91 m) above land surface.
REMARKS.--Well is infrequently pumped.
PERIOD OF RECORD.--November 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.02 ft (21.04 m) below land surface, Apr. 4, 1968; lowest 74.88 ft (22.82 m) below land surface, Mar. 29, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 74.88 ft (22.82 m) below land surface.

351456090423201. Local number, 07N04E07ABC1.
LOCATION.--Lat 35°14'56", long 90°42'32", Hydrologic Unit 08020203, near Princedale.
Owner: J. E. Hollan, Jr.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (0.41 m), depth 196 ft (60 m).
DATUM.--Land surface, 222 ft (68 m) National Geodetic Vertical Datum of 1929. Measuring point: Plug hole in pump base, 1.90 ft (0.58 m) above land surface.
PERIOD OF RECORD.--February 1955, February 1961-62, July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.68 ft (11.79 m) below land surface, Sept. 16, 1975; lowest, 46.94 ft (14.31 m) below land surface, Jan. 14, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 43.86 ft (13.37 m) below land surface.

352204091000201. Local number, 09N01E33BBA1.
LOCATION.--Lat 35°22'04", long 91°00'02", Hydrologic Unit 08020205, near Hickory Ridge.
Owner: H. H. Holleman.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12-8 in (0.30-0.20 m).
DATUM.--Land surface, 225 ft (69 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of pit casing north side, 0.90 ft (0.27 m) above land surface.
PERIOD OF RECORD.--January 1957 to August 1962, April 1964 to April 1974, March 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.90 ft (10.64 m) below land surface, June 19, 1957; lowest, 54.03 ft (16.47 m) below land surface, Mar. 28, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1978, 54.03 ft (16.47 m) 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 (0.25-0.20 m), depth 888 ft (271 m).
DATUM.--Land surface, 272 ft (83 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe in concrete base, 0.5 ft (0.15 m) above land surface.
REMARKS.--Water-quality records for 1946 available in files of district office.
PERIOD OF RECORD.--October 1949 to May 1950, June 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.81 ft (29.81 m) below land surface, May 8, 1950; lowest, 134.84 ft (41.10 m) below land surface, Nov. 11, 1975.
MEASUREMENT FOR CURRENT YEAR.--Mar. 27, 1978, 134.70 ft (41.06 m) 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 (0.30-0.20 m), depth 754 ft (230 m), cased 0-679 ft (0-207 m), screened 679-754 ft (207-230 m).
DATUM.--Land surface, 139 ft (42 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--July 1952, December 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.50 ft (2.59 m) below land surface, July 27, 1952; lowest, 42.05 ft (12.82 m) below land surface, Mar. 20, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 20, 1978, 42.05 ft (12.82 m) below land surface.

335258091152301. Local number, 09S02W26DDC1.
LOCATION.--Lat 33°52'58", long 91°15'23", Hydrologic Unit 08050002, near Watson.
Owner: George H. Smith.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 5-2 in (0.13-0.05 m), depth 97 ft (30 m), cased 0-94 ft (0-29 m), screened 94-97 ft (29-30 m).
DATUM.--Land surface, 149.27 ft (45.50 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.71 ft (0.52 m) above land surface.
REMARKS.--Recorder inoperative from October 1975 through February 1976. Water level fluctuates largely with stage of Arkansas River.
PERIOD OF RECORD.--October 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.94 ft (0.90 m) below land surface, Feb. 17, 1959; lowest, 20.12 ft (6.13 m) below land surface, Aug. 7, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.66			14.46	13.27	12.97	12.52	11.23	11.54	12.77	14.49	16.23
10	16.39			14.53	13.27	12.64	12.52	10.73	11.76	13.00	14.81	16.37
15	---			14.19	13.22	12.45	12.55	10.59	11.46	13.25	15.12	16.47
20	---			13.53	13.20	12.33	12.23	10.81	12.10	13.46	15.42	16.54
25	---			13.27	13.14	12.25	12.21	10.74	12.42	13.79	15.71	16.59
EOM	---			13.28	13.23	12.45	12.24	11.22	12.59	14.14	16.04	16.62

WTR YR 1978 MAX 10.57 MAY 15, 16, 1978 MIN 16.72 OCT. 1, 1977

335811091325601. Local number, 09S04W06BBC1.
LOCATION.--Lat 33°58'11", long 91°32'56", Hydrologic Unit 08050001, near Gould.
Owner: Holthoff Brothers.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-10 in (0.46-0.25 m), depth 102 ft (31 m), screened 70-102 ft (21-31 m).
DATUM.--Land surface, 161.75 ft (49.30 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft (0.15 m) above land surface.
REMARKS.--Water-quality records for 1952 available in files of district office.
PERIOD OF RECORD.--August 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.87 ft (0.27 m) below land surface, May 8, 1958; lowest, 14.83 ft (4.52 m) below land surface, July 9, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 20, 1978, 10.70 ft (3.26 m) below land surface.

DREW COUNTY

333418091272601. Local number, 15S04W12DDA1.
LOCATION.--Lat 33°24'18", long 91°27'26", Hydrologic Unit 08050001, near Jerome.
Owner: Ernest Ellington and Son.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18-8 in (0.46-0.20 m), depth 760 ft (232 m), cased 0-680 ft (0-207 m), screened 680-760 ft (207-232 m).
DATUM.--Land surface, 125 ft (38 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, south side, 2.00 ft (0.61 m) above land surface.
REMARKS.--Water-quality records for 1952 available in files of district office.
PERIOD OF RECORD.--March 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.03 ft (8.85 m) below land surface, June 12, 1962; lowest, 46.90 ft (14.30 m) below land surface, Mar. 21, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1978, 46.90 ft (14.30 m) below land surface.

334545091383701. Local number, 11S05W08CCC1.
LOCATION.--Lat 33°45'45", long 91°38'37", Hydrologic Unit 08040205, near Florence.
Owner: J. E. Holloway.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m), depth 153 ft (47 m), cased 0-93 ft (0-28 m), screened 93-153 ft (28-47 m).
DATUM.--Land surface, 185 ft (56 m) National Geodetic Vertical Datum of 1929. Measuring point: Plug in pump, south side, 2.00 ft (0.61 m) above land surface.
REMARKS.--Well not available for water-level measurement in 1976.
PERIOD OF RECORD.--January 1965 to March 1968, March 1970 to March 1975, March to September 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.47 ft (8.98 m) below land surface, May 6, 1965; lowest, 36.03 ft (10.98 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1978, 32.42 ft (9.88 m) below land surface.

334601091412101. Local number, 11S06W11DBC1.
LOCATION.--Lat 33°46'01", long 91°41'21", Hydrologic Unit 08040205, near Florence.
Owner: James E. Henley, Jr.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-10 in (0.46-0.25 m), depth 864 ft (263 m), cased 0-824 ft (0-251 m), screened 824-864 ft (251-263 m).
DATUM.--Land surface, 203 ft (62 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in south side of pump base, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1953 available in files of district office.
PERIOD OF RECORD.--March 1962, March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.10 ft (28.07 m) below land surface, March 27, 1964; lowest, 122.34 ft (37.29 m) below land surface, Mar. 21, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 21, 1978, 122.34 ft (37.29 m) below land surface.

FULTON COUNTY

362207091492401. Local number, 20N08W27ABD1.
LOCATION.--Lat 36°22'07", long 91°49'24", Hydrologic Unit 11010010, at Salem.
Owner: City of Salem.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in (0.20 m), depth 1,282 ft (391 m).
DATUM.--Land surface, 660 ft (201 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in plate on top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--February 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.20 ft (3.11 m) below land surface, Nov. 20, 1975; lowest, 50.73 ft (15.46 m) below land surface, Nov. 21, 1974.
MEASUREMENT FOR CURRENT YEAR.--May 1, 1978, 41.90 ft (12.77 m) below land surface.

GREENE COUNTY

360322090290401. Local number, 17N06E31DCB1.
LOCATION.--Lat 36°03'22", long 90°29'04", Hydrologic Unit 08020203.
Owner: City of Paragould.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 20 in (0.51 m), depth 507 ft (155 m), screened 467-507 ft (142-155 m).
DATUM.--Land surface, 285 ft (87 m) National Geodetic Vertical Datum of 1929. Measuring point: Pipe in east side of pump base, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records available: December 1976.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.25 ft (22.33 m) below land surface, Apr. 13, 1967; lowest, 97.37 ft (29.68 m) below land surface, Mar. 31, 1970.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 92.00 ft (28.07 m) 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 (0.46-0.25 m), depth 194 ft (59 m).
DATUM.--Land surface, 255 ft (78 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in pump base, north side, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.21 ft (5.55 m) below land surface, Mar. 10, 1958; lowest, 40.01 ft (12.20 m) below land surface, July 22, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 27.00 ft (8.23 m) 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 (0.30 m), depth 1,156 ft (352 m), cased 0-114 ft (0-340 m), screened 1114-1156 ft (340-352 m).
DATUM.--Land surface, 355 ft (108 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of pump base, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records available: January 1977.
PERIOD OF RECORD.--April 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.02 ft (29.57 m) below land surface, Apr. 14, 1972, lowest, 180.38 ft (54.98 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 4, 1978, 179.60 ft (54.74 m) 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.--Tokio Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in (0.30 m), depth 1,200 ft (366 m).
DATUM.--Land surface, 355 ft (108 m) National Geodetic Vertical Datum of 1929. Measuring point: 2-in (0.05-m) pipe in south side of concrete base, 0.80 ft (0.24 m) above land surface.
PERIOD OF RECORD.--April 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.44 ft (24.21 m) below land surface, Apr. 5, 1971; lowest, 163.48 ft (49.83 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 4, 1978, 162.47 ft (49.52 m) below land surface.

JACKSON COUNTY

353323091213701. Local number, 11N03W30CBA1.
LOCATION.--Lat 35°33'23", long 91°21'37", Hydrologic Unit 11010013, near Olyphant.
Owner: R. D. Wilmans, Jr.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 14 in (0.36 m), depth 90 ft (27 m), cased 0-60 ft (0-18 m), screened 60-90 ft (18-27 m).
DATUM.--Land surface, 223 ft (68 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in west side of casing, at land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.56 ft (3.22 m) below land surface, Mar. 30, 1973; lowest, 28.25 ft (8.61 m) below land surface, Sept. 21, 1959.
MEASUREMENT FOR CURRENT YEAR.--Apr. 3, 1978, 13.63 ft (4.15 m) below land surface.

JEFFERSON COUNTY

340901091564601. Local number, 07S08W06BAA1.
LOCATION.--Lat 34°09'01", long 91°56'46", Hydrologic Unit 08040205, near Pine Bluff.
Owner: W. K. Shell.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16-8 in (0.41-0.20 m), depth 160 ft (49 m), cased 0-120 ft (0-37 m), screened 120-160 ft (37-49 m).
DATUM.--Land surface, 202.31 ft (61.66 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 1½-in (0.04-m) pipe on south side of pump base, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.88 ft (2.40 m) below land surface, Apr. 5, 1962; lowest, 21.09 ft (6.43 m) below land surface, July 9, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 13.70 ft (4.18 m) below land surface.

341043091562201. Local number, 06S08W30AAA1.
LOCATION.--Lat 34°10'43", long 91°56'22", Hydrologic Unit 08040205, near Pine Bluff.
Owner: Arkansas Flying Service.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused public-supply artesian well, diameter 8 in (0.20 m), depth 951 ft (290 m), cased 0-900 ft (0-274 m), screened 900-940 ft (274-287 m).
DATUM.--Land surface, 205.37 ft (62.60 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1949 available in files of district office.
PERIOD OF RECORD.--March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 151.00 ft (46.02 m) below land surface, July 5, 1965; lowest, 214.39 ft (65.35 m) below land surface, Sept. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	206.68	207.54	206.74	206.24	210.88	210.57	210.18	210.01	208.79	210.45	212.44	214.14
10	207.24	207.45	208.16	207.76	210.80	210.68	210.08	209.61	208.54	207.20	212.82	214.14
15	207.92	207.11	208.19	208.35	210.72	210.77	210.56	209.96	209.18	208.63	213.03	214.14
20	207.76	207.24	208.17	209.42	209.99	210.80	210.03	210.22	209.67	210.08	213.39	214.11
25	207.42	206.85	207.39	209.88	210.12	210.86	210.24	210.02	210.40	211.09	213.90	214.37
EOM	207.46	207.18	205.25	210.69	210.38	210.32	210.10	209.44	210.71	211.75	214.05	214.37

WTR YR 1978 MAX 204.29 DEC. 28, 1977 MIN 214.39 SEPT. 30, 1978

341138091551601. Local number, 06S08W16CCC1.
LOCATION.--Lat 34°11'38", long 91°55'16", Hydrologic Unit 08040205, at intersection of U.S. Highway 62 and State Highway 81 near Pine Bluff (company observation well no. 3).
Owner: International Paper Company.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 2 in (0.05 m), depth 805 ft (245 m).
DATUM.--Land surface, 202.42 ft (61.70 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--August 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.98 ft (33.22 m) below land surface, Sept. 4, 1958; lowest, 224.09 ft (68.30 m) below land surface, Apr. 5, 1978.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 224.09 ft (68.30 m) below land surface.

341151092022101. Local number, 06S09W17CCA1.
LOCATION.--Lat 34°11'51", long 92°02'21", Hydrologic Unit 08040205, at Midland Drive North and Midland Drive South, Pine Bluff.
Owner: General Water Works Corporation.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4-2 in (0.10-0.05 m), depth 906 ft (276 m).
DATUM.--Land surface, 234.34 ft (71.43 m) 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, 80.36 ft (24.49 m) below land surface, Oct. 17, 1956; lowest, 249.15 ft (75.94 m) below land surface, Apr. 5, 1978.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 249.15 ft (75.94 m) below land surface.

341427091565201. Local number, 05S09W35AAB1.
LOCATION.--Lat 34°14'27", long 91°56'52", Hydrologic Unit 11110207, at St. Louis and Southwestern Railroad yard near Pine Bluff (company observation well no. 5).
Owner: International Paper Company.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 2 in (0.05 m), depth 809 ft (247 m).
DATUM.--Land surface, 204.67 ft (62.38 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft (0.91 m) above land surface.
PERIOD OF RECORD.--September 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.73 ft (16.68 m) below land surface, May 23, 1957; lowest, 250.73 ft (76.42 m) below land surface, Oct. 26, 1971, Apr. 25, 1977, Apr. 5, 1978.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 250.73 ft (76.42 m) below land surface.

342116091474501. Local number, 04S07W17CCB1.
LOCATION.--Lat 34°21'16", long 91°47'45", Hydrologic Unit 08020401, near Wabbaseka.
Owner: Frank Ragland.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-12 in (0.46-0.30 m), depth 101 ft (31 m), cased 0-71 ft (0-22 m), screened 71-101 ft (22-31 m).
DATUM.--Land surface, 203 ft (62 m) National Geodetic Vertical Datum of 1929. Measuring point: Top end of discharge pipe, 7.00 ft (2.13 m) above land surface.
PERIOD OF RECORD.--October 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.05 ft (3.67 m) below land surface, Feb. 27, 1952; lowest, 34.83 ft (10.62 m) below land surface, Aug. 29, 1956.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 33.20 ft (10.12 m) below land surface.

LAFAYETTE COUNTY

330804093435501. Local number, 19S25W06ABD1.
LOCATION.--Lat 33°08'04", long 93°43'55", Hydrologic Unit 11140201, near Gin City.
Owner: Earl Stanley.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16-12 in (0.41-0.30 m), depth 63 ft (19 m), cased 0-43 ft (0-13 m), screened 43-63 ft (13-19 m).
DATUM.--Land surface, 212 ft (65 m) National Geodetic Vertical Datum of 1929. Measuring point: Top end of discharge pipe, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--March 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.53 ft (1.38 m) below land surface, Apr. 1, 1959; lowest, 17.54 ft (5.35 m) below land surface, Jan. 24, 1957.
MEASUREMENT FOR CURRENT YEAR.--Apr. 6, 1978, 14.85 ft (4.53 m) below land surface.

332145093280402. Local number, 16S23W10DCA2.
LOCATION.--Lat 33°21'45", long 93°28'04", Hydrologic Unit 11140203, near Stamps.
Owner: Arkansas Power and Light Company.
AQUIFER.--Cane River Formation of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m) depth 355 ft (108 m).
DATUM.--Land surface, 298.5 ft (90.98 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--June 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.75 ft (11.20 m) below land surface, Mar. 31, 1953; lowest, 88.90 ft (27.10 m) below land surface, Oct. 1, 1963.
MEASUREMENT FOR CURRENT YEAR.--Apr. 1, 1978, 71.92 m) below land surface.

LEE COUNTY

344203090411601. Local number, 01N04E09DCC1.
LOCATION.--Lat 34°42'03", long 90°41'16", Hydrologic Unit 08020203, near Marianna.
Owner: U.S. Geological Survey.
AQUIFER.--Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6-3 in (0.15-0.08 m), depth 1,885 ft (575 m), cased 0-1,865 ft (0-568 m), screened 1,865-1,885 ft (568-575 m).
DATUM.--Land surface, 204 ft (62 m) National Geodetic Vertical Datum of 1929. Measuring point: ¼-in (0.01-m) plug in pipe cap, 3.50 ft (1.07 m) above land surface.
REMARKS.--Water-quality records for 1964 available in files of district office.
PERIOD OF RECORD.--September 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.64 ft (2.94 m) below land surface, Apr. 10, 1967; lowest, 19.52 ft (5.95 m) below land surface, Mar. 30, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 19.52 ft (5.95 m) below land surface.

344341090460001. Local number, 01N03E02BBC1.
LOCATION.--Lat 34°43'41", long 90°46'00", Hydrologic Unit 08020304, near Marianna.
Owner: University of Arkansas, Cotton Branch Experiment Station.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 24-12 in (0.61-0.30 m) depth 168 ft (51 m).
DATUM.--Land surface, 236.43 ft (72.06 m) National Geodetic Vertical Datum of 1929. Measuring point: Small pipe in west side of pump base, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--March 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.16 ft (9.50 m) below land surface, Apr. 17, 1961; lowest, 49.67 ft (15.14 m) below land surface, Nov. 15, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 36.91 ft (11.25 m) below land surface.

LITTLE RIVER COUNTY

333951094071501. Local number, 13S29W05ABC1.
LOCATION.--Lat 33°39'51", long 94°07'15", Hydrologic Unit 11140109, near Ashdown.
Owner: Diggs and Hagan.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-8 in (0.46-0.20 m), depth 98 ft (30 m), cased 0-58 ft (0-18 m), screened 58-98 ft (18-30 m).
DATUM.--Land surface, 328 ft (100 m) National Geodetic Vertical Datum of 1929. Measuring point: End of discharge pipe, 6.50 ft (1.98 m) above land surface.
PERIOD OF RECORD.--March 1957 to March 1968, April 1971 to April 1973, March 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft (0.17 m) below land surface, Dec. 2, 1958; lowest, 48.16 ft (14.68 m) below land surface, Mar. 24, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1978, 44.99 ft (13.71 m) below land surface.

LONOKE COUNTY

344607091543401. Local number, 02N08W30CAB1.
LOCATION.--Lat 34°46'07", long 91°54'34", Hydrologic Unit 08020402, at Joe Hogan State Fish Hatchery near Lonoke.
Owner: State Game and Fish Commission.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in (0.46 m), depth 135 ft (41 m).
DATUM.--Land surface, 245 ft (75 m) 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 (25.80 m) below land surface, Mar. 24, 1969; lowest, 106.07 ft (32.33 m) below land surface, Aug.28, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	102.64	101.35	100.54	100.00	100.93	99.70	100.01	100.83	101.49	103.47	104.28	104.96
10	102.14	101.63	101.51	100.57	100.06	99.40	99.99	100.77	101.08	103.70	104.75	104.59
15	102.03	100.78	100.41	100.10	99.92	99.47	100.76	100.06	100.86	103.81	104.94	104.43
20	101.89	100.78	100.60	100.04	99.53	99.36	101.55	101.01	101.40	104.58	105.54	104.59
25	101.63	100.73	100.54	99.52	99.62	99.41	102.27	100.54	100.80	104.88	105.98	104.26
EOM	101.46	100.65	100.20	100.13	99.40	99.77	101.73	100.94	102.59	104.60	105.49	103.72

WTR YR 1978 MAX 98.84 MAR. 13, 1978 MIN 106.07 AUG. 24, 1978

344955091565301. Local number, 02N09W02BCB1.
LOCATION.--Lat 34°49'55", long 91°56'53", Hydrologic Unit 08020402, near Lonoke.
Owner: Joe Bob Gotcher.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 24 in (0.61 m), depth 128 ft (39 m).
DATUM.--Land surface, 255 ft (78 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in plate over well at land surface.
PERIOD OF RECORD.--March 1937, March 1944, March 1947, March 1951, March 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.72 ft (14.55 m) below land surface, Mar. 28, 1937; lowest, 98.25 ft (29.95 m) below land surface, Aug. 28, 1978.

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 (0.25 m), depth 41 ft (12 m).
DATUM.--Land surface, 230 ft (70 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--November 1960, April 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft (0.08 m) below land surface, August 21, 1970; lowest, 13.98 ft (4.26 m) below land surface, April 14, 1972.
MEASUREMENT FOR CURRENT YEAR.--Apr. 6, 1978, 8.48 ft (2.59 m) below land surface.

MISSISSIPPI COUNTY

353213090072701. Local number, 11N09E34BBB1.
LOCATION.--Lat 35°32'13", long 90°07'27", Hydrologic Unit 08020203, near Bassett.
Owner: Crain Company.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m) depth 94 ft (29 m), cased 0-84 ft (0-26 m), screened 84-94 ft (26-29 m).
DATUM.--Land surface, 234 ft (71 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, north side, 0.50 ft (0.15 m) above land surface.
PERIOD OF RECORD.--May 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.48 ft (1.98 m) below land surface, May 14, 1958; lowest, 13.66 ft (4.16 m) below land surface, Nov. 17, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 27, 1978, 11.48 ft (3.50 m) below land surface.

355024090034601. Local number, 14N10E18ABC1.
LOCATION.--Lat 35°50'24", long 90°03'46", Hydrologic Unit 08020203, near Dell.
Owner: R. A. Greenway.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in (0.4 m), depth 101 ft (31 m), cased 0-51 ft (0-16 m), screened 51-101 ft (16-31 m).
DATUM.--Land surface, 236 ft (72 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.40 ft (0.12 m) above land surface.
REMARKS.--Water-quality records for 1956 and 1957 available in files of district office.
PERIOD OF RECORD.--May 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.90 ft (1.49 m) below land surface, Dec. 11, 1957; lowest, 15.86 ft (4.83 m) below land surface, Nov. 18, 1964.
MEASUREMENT FOR CURRENT YEAR.--Apr. 19, 1978, 9.80 ft (2.99 m) below land surface.

355607090152601. Local number, 15N08E08DBC1.
LOCATION.--Lat 35°56'07", long 90°15'26", Hydrologic Unit 08020204, at Leachville.
Owner: City of Leachville.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply unused artesian well, diameter 10-6 in (0.25-0.15 m), depth 1,083 ft (330 m), cased 0-1,000 ft (0-305 m), screened 1,000-1,083 ft (305-330 m).
DATUM.--Land surface, 236 ft (72 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of outer casing, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records for 1956 in filed of district office.
PERIOD OF RECORD.--November 1958, March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft (0.88 m) below land surface, Nov. 5, 1958; lowest, 10.18 ft (3.10 m) below land surface, June 10, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 8, 1978, 7.34 ft (2.24 m) below land surface.

MONROE COUNTY

344135091165101. Local number, 01N03W24BBB1.
LOCATION.--Lat 34°41'35", long 91°16'51", Hydrologic Unit 08020303, near Clarendon.
Owner: B. B. Bateman.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 14-6 in (0.36-0.15 m), depth 108 ft (33 m).
DATUM.--Land surface, 185 ft (56 m) National Geodetic Vertical Datum of 1929. Measuring point: Cut out in casing north side, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--January 1957, February 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.40 ft (5.30 m) below land surface, Apr. 16, 1962; lowest, 24.60 ft (7.50 m) below land surface, Nov. 16, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 21.86 ft (6.66 m) below land surface.

NEVADA COUNTY

334757093231501. Local number, 11S22W08DAC1.
LOCATION.--Lat 33°47'57", long 93°23'15", Hydrologic Unit 08040103, at Prescott (city well no. 1).
Owner: City of Prescott.
AQUIFER.--Tokio Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 11-6 in (0.28-0.15 m), depth 1,052 ft (321 m), cased 0-1,002 ft (0-305 m) screened 1,002-1,052 ft (305-321 m).
DATUM.--Land surface, 305 ft (93 m) National Geodetic Vertical Datum of 1929. Measuring point: 2-in (0.05-m) plug in concrete base, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.05 ft (28.67 m) below land surface, Mar. 23, 1972; lowest, 140.69 ft (42.88 m) below land surface, Mar. 30, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 140.69 ft (42.88 m) below land surface.

334759093231301. Local number, 11S22W08DAC2.
LOCATION.--Lat 33°47'59", long 93°23'13", Hydrologic Unit 08040103, at Prescott (city well no. 4).
Owner: City of Prescott.
AQUIFER.--Nacatoch Sand of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-12 in (0.41-0.30 m), depth 232 ft (71 m), cased 0-172 ft (0-52 m), screened 172-232 ft (52-71 m).
DATUM.--Land surface, 306 ft (93 m) National Geodetic Vertical Datum of 1929. Measuring point: 1-in (0.03-m) pipe on northeast side of concrete base, 1.70 ft (0.52 m) above land surface.
PERIOD OF RECORD.--May 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.99 ft (36.57 m) below land surface, Mar. 30, 1978; lowest, 138.42 ft (42.19 m) below land surface, Apr. 9, 1974.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 119.99 ft (36.57 m) below land surface.

OUACHITA COUNTY

334018092594801. Local number, 12S18W19CDC1.
LOCATION.--Lat 33°40'18", long 92°59'48", Hydrologic Unit 08040102, near Bragg City.
Owner: U.S. Geological Survey.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 2 in (0.05 m), depth 120 ft (37 m), cased 0-117 ft (0-36 m), screened 117-120 ft (36-37 m).
DATUM.--Land surface, 235 ft (72 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.60 ft (1.10 m) above land surface.
REMARKS.--Water-quality records for 1957 and 1958 available in files of district office.
PERIOD OF RECORD.--November 1958 to March 1962, March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.71 ft (13.02 m) below land surface, Mar. 31, 1975; lowest, 53.20 ft (16.22 m) below land surface, Oct. 1, 1970.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 45.08 ft (13.74 m) below land surface, Aug. 3, 1978, 47.54 ft (14.49 m) below land surface.

334215092413201. Local number, 12S16W12ADB1.
LOCATION.--Lat 33°42'15", long 92°41'32', Hydrologic Unit 08040102, near Eagle Mills.
Owner: J. S. J. Lyle Estate.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 300 ft (91 m).
DATUM.--Land surface, 159 ft (48 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--October 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.48 ft (6.24 m) below land surface, May 15, 1962; lowest, 30.27 ft (9.23 m) below land surface, Apr. 5, 1968.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 23.79 ft (7.25 m) below land surface.

341534090563001. Local number, 05S02E18BDA1.
LOCATION.--Lat 34°15'34", long 90°56'30", Hydrologic Unit 08020303, near Ratio.
Owner: Brooks Griffith.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 130 ft (40 m).
DATUM.--Land surface, 156 ft (48 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in northeast side of pump, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.00 ft (2.44 m) below land surface, Apr. 17, 1961; lowest, 22.53 ft (6.87 m) below land surface, Nov. 16, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 15.47 ft (4.72 m) below land surface.

342856090363601. Local number, 02S05E29CCC1.
LOCATION.--Lat 34°28'56", long 90°36'36", Hydrologic Unit 08020303, near Helena.
Owner: Gardinier-Big River Inc.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 308 ft (94 m), cased 0-278 ft (0-85 m), screened 278-308 ft (85-94 m).
DATUM.--Land surface, 179 ft (55 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records for 1970 and 1975 available in files of district office.
PERIOD OF RECORD.--February 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.52 ft (11.74 m) below land surface, Apr. 20, 1978; lowest, 98.13 ft (29.91 m) below land surface, July 13, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.13	62.08	56.09	56.14	42.59	54.86	55.47	40.70	---	54.66	54.03	56.95
10	61.62	58.70	56.44	57.29	50.89	55.50	52.35	---	---	49.97	54.55	56.53
15	59.10	58.32	60.69	56.87	53.76	57.45	40.40	---	---	49.32	57.56	56.58
20	59.00	57.23	59.79	54.37	55.41	58.28	39.53	---	56.57	55.25	57.82	57.32
25	62.07	58.10	56.62	49.54	53.21	56.22	40.70	---	57.87	55.38	56.01	56.43
EOM	62.54	55.95	55.86	45.45	52.77	57.76	40.70	---	54.75	54.78	55.13	56.64

WTR YR 1978 MAX 38.52 APR. 20, 1978 MIN 63.77 OCT. 28, 1977

343108090462601. Local number, 02S03E15ACD1.
LOCATION.--Lat 34°31'08", long 90°46'26", Hydrologic Unit 08020304, near Barton.
Owner: Don R. Dearing.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in (0.46 m), depth 112 ft (34 m).
DATUM.--Land surface, 147 ft (45 m) National Geodetic Vertical Datum of 1979. Measuring point: Top of casing, at land surface.
PERIOD OF RECORD.--March 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.61 ft (1.41 m) below land surface, Apr. 25, 1973; lowest, 16.40 ft (5.00 m) below land surface, Sept. 1, 2, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	14.72	13.08	13.14	10.12	11.19	11.79	11.39	12.08	13.73	15.01	15.19
10	---	14.81	12.92	12.69	10.33	11.33	11.99	9.25	12.20	13.98	15.12	15.26
15	14.74	14.76	12.44	12.60	10.75	10.21	12.17	8.86	12.28	14.23	15.05	15.13
20	14.66	14.36	12.49	11.73	10.95	10.06	12.41	9.68	12.28	14.42	15.24	15.00
25	14.67	13.97	12.75	10.13	11.48	10.71	12.56	10.51	12.57	14.66	15.29	15.11
EOM	14.78	13.42	13.01	9.97	11.49	11.35	12.60	11.88	13.24	14.89	15.32	15.28

WTR YR 1978 MAX 8.71 MAY 14, 1978 MIN 15.39 AUG. 28, 29, 1978

POINSETT COUNTY

352930090582501. Local number, 10N01E15DBB1.
LOCATION.--Lat 35°29'30", long 90°58'25", Hydrologic Unit 08020205, at Fisher.
Owner: City of Fisher.
AQUIFER.--Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 6 in (0.15 m), depth 302 ft (92 m), cased 0-260 ft (0-79 m), screened 260-302 ft (79-92 m).
DATUM.--Land surface, 232 ft (71 m) National Geodetic Vertical Datum of 1929. Measuring point: Bottom of large opening south side of pump, 1.80 ft (0.55 m) above land surface.
PERIOD OF RECORD.--March 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.20 ft (15.00 m) below land surface, Apr. 8, 1968; lowest 60.72 ft (18.51 m) below land surface, Mar. 27, 1978.
MEASUREMEMT FOR CURRENT YEAR.--Mar. 27, 1978, 60.72 ft (18.51 m) below land surface.

PRAIRIE COUNTY

343639091335201. Local number, 01S05W20ABB1.
LOCATION.--Lat 34°36'39", long 91°33'52", Hydrologic Unit 08020303, near Stuttgart.
Owner: Mike Prislovsky.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m), depth 632 ft (193 m), cased 0-545 ft (0-166 m), screened 545-632 ft (166-193 m).
DATUM.--Land surface, 220 ft (67 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1937, April 1942, May 1947, October 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.43 ft (15.37 m) below land surface, Apr. 29, 1938; lowest 120.68 ft (36.78 m) below land surface, Mar. 28, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 120.52 ft (36.73 m) below land surface.

344644091382801. Local number, 02N06W21DAD1.
LOCATION.--Lat 34°46'44", long 91°38'28", Hydrologic Unit 08020303, near Carlisle.
Owner: E. O. Hansen, Estate.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-12 in (0.46-0.30 m), depth 314 ft (96 m), cased 0-254 ft (0-77 m), screened 254-314 ft (77-96 m).
DATUM.--Land surface, 235 ft (72 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 2.00 ft (0.61 m) above land surface.
REMARKS.--Water-quality records for 1961, available in files of district office.
PERIOD OF RECORD.--July 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 83.88 ft (25.57 m) below land surface, Mar. 20, 1963; lowest, 114.67 ft (34.95 m) below land surface, May 22, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 27, 1978, 98.06 ft (29.89 m) below land surface.

345843091344601. Local number, 04N05W07CDC1.
LOCATION.--Lat 34°58'43", long 91°34'46", Hydrologic Unit 08020301, near Des Arc.
Owner: Fred Rodgers.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18-12 in (0.46-0.30 m).
DATUM.--Land surface, 212 ft (65 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 0.50 ft (0.15 m) above land surface.
PERIOD OF RECORD.--December 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.73 ft (14.55 m) below land surface, Apr. 2, 1968; lowest, 59.32 ft (18.08 m) below land surface, Sept. 26, 1961.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1978, 57.45 ft (17.51 m) 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 (0.41 m), depth 151 ft (46 m).
DATUM.--Land surface, 210 ft (64 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in southwest side of pump base, 3.00 ft (0.91 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.23 ft (7.69 m) below land surface, June 29, 1961; lowest, 30.51 ft (9.30 m) below land surface, Sept. 15, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 27, 1978, 29.79 ft (9.08 m) below land surface.

350029090265801. Local number, 05N06E34CAB1.
LOCATION.--Lat 35°00'29", long 90°26'58", Hydrologic Unit 08020203, near Greasy Corner.
Owner: C. D. Brown.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12-10 in (0.30-0.25 m), depth 110 ft (34 m).
DATUM.--Land surface, 200 ft (61 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 1.70 ft (0.52 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1955, February 1961, March 1962, July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.59 ft (5.06 m) below land surface, Mar. 31, 1975; lowest, 26.13 ft (7.96 m) below land surface, Mar. 18, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1978, 21.11 ft (6.43 m) below land surface.

SEVIER COUNTY

335808094100101. Local number, 09S30W23BDD1.
LOCATION.--Lat 33°58'08", long 94°10'01", Hydrologic Unit 11140109, at Lockesburg.
Owner: City of Lockesburg.
AQUIFER.--Trinity Group of Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 197 ft (60 m).
DATUM.--Land surface, 440 ft (134 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records available: February 1977.
PERIOD OF RECORD.--November 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.17 ft (4.32 m) below land surface, Apr. 17, 1968; lowest, 81.76 ft (24.92 m) below land surface, Apr. 5, 1978.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1978, 81.76 ft (24.92 m) below land surface.

UNION COUNTY

330107092432301. Local number, 19S16W35DDC1.
LOCATION.--Lat 33°01'07", long 92°43'23", Hydrologic Unit 08040206, at Junction City.
Owner: Junction City.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10-8 in (0.25-0.20 m), depth 601 ft (183 m), cased 0-546 ft (0-166 m), screened 546-601 ft (166-183 m).
DATUM.--Land surface, 175 ft (53 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in (0.05-m) pipe, south side of pump base, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--November 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 182.33 ft (55.57 m) below land surface, Nov. 11, 1967; lowest, 213.58 ft (65.10 m) below land surface, Mar. 30, 1978.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 213.58 ft (65.10 m) below land surface.

330228092110101. Local number, 19S10W19CCB2.
LOCATION.--Lat 33°02'28", long 92°11'01", Hydrologic Unit 08040202, at Huttig.
Owner: City of Huttig.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in (0.20 m), depth 770 ft (235 m), cased 0-700 ft (0-213 m), screened 700-770 ft (213-235 m).
DATUM.--Land surface, 100 ft (30 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing north side, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1946 available in files of district office.
PERIOD OF RECORD.--December 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.35 ft (18.70 m) below land surface, May 10, 1966; lowest, 88.03 ft (26.83 m) below land surface, March 10, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1978, 87.38 ft (26.63 m) below land surface.

331358092424301. Local number 17S16W24BAC1.
LOCATION.--Lat 33°13'58", long 92°42'43", Hydrologic Unit 08040201, at El Dorado (city well no. 17).
Owner: City of El Dorado.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 18-8 in (0.46-0.20 m), depth 615 ft (187 m), cased 0-493 ft (0-150 m), screened 493-615 ft (150-187 m).
DATUM.--Land surface, 220 ft (67 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in ease side of pump base, 2.00 ft (0.61 m) above land surface.
REMARKS.--Water-quality records for 1972 and 1977 available in files of district office.
PERIOD OF RECORD.--April 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 339.29 ft (103.42 m) below land surface, Apr. 10, 1973; lowest, 366.10 ft (111.59 m) below land surface, Oct. 21, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1978, 360.92 ft (110.01 m) 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 (0.20 m), depth 540 ft (165 m), cased 0-520 ft (0-158 m), screened 520-540 ft (158-165 m).
DATUM.--Land surface, 182.93 ft (55.76 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--July 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 269.70 ft (82.20 m) below land surface, Apr. 20, 1956; lowest, 357.51 ft (108.97 m) below land surface, July 30, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	334.01	331.51	326.56	326.33	328.03	328.65	326.59	325.82	328.49	335.15	338.57	344.08
10	332.68	329.78	327.23	327.01	327.77	327.97	326.67	325.33	328.88	336.49	338.96	344.07
15	332.45	329.27	326.73	327.63	328.23	327.58	326.55	326.57	330.50	339.24	339.16	344.07
20	331.03	327.90	326.95	327.60	328.33	327.98	325.96	327.77	331.42	337.92	340.11	344.07
25	330.96	326.84	326.37	327.81	328.93	327.51	325.62	327.90	332.19	337.89	342.42	344.07
EOM	331.11	326.57	325.86	328.01	328.84	326.67	325.97	328.31	334.07	337.29	344.14	344.07

WTR YR 1978 MAX 325.05 MAY 9, 1978 MIN 344.15 AUG. 31, 1978

330855092505601. Local number, 18S17W22BDD1.
LOCATION.--Lat 33°08'55", long 92°50'56", Hydrologic Unit 08040206, near Shuler.
Owner: H. G. McKennon.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (0.25 m), depth 705 ft (215 m), cased 0-605 ft (0-184 m), screened 605-705 ft (184-215 m).
DATUM.--Land surface, 280 ft (85 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.20 ft (0.37 m) above land surface.
REMARKS.--Unpublished water-level records available for 1968 to 1976 in files of district office.
PERIOD OF RECORD.--April 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 315.37 ft (96.12 m) below land surface, Apr. 3, 1968; lowest, 336.02 ft (102.42 m) below land surface, Sept. 30, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	333.91	333.82	333.38			---	332.71	332.44	332.61	333.27	334.74	335.43
10	333.85	334.01	333.66			---	332.60	332.40	332.68	333.54	334.84	335.62
15	333.95	333.87	333.23			---	332.70	332.23	332.80	333.69	334.98	335.72
20	333.93	333.83	---			---	332.65	332.42	332.85	334.01	335.17	335.84
25	333.91	333.76	---			---	332.63	332.46	332.94	334.25	335.28	335.97
EOM	333.86	333.50	---			332.70	332.48	332.56	333.13	334.48	335.28	335.98

WTR YR 1978 MAX 332.20 MAY 12, 1978 MIN 336.02 SEPT. 30, 1978

WOODRUFF COUNTY

351657091203101. Local number, 08N03W31AAD1.
LOCATION.--Lat 35°16'57", long 91°20'31", Hydrologic Unit 08020302, near Augusta.
Owner: E. B. Conner.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in (0.36 m), depth 110 ft (34 m), cased 0-80 ft (0-24 m), screened 80-110 ft (24-34 m).
DATUM.--Land surface, 212 ft (65 m) National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.07 ft (4.90 m) below land surface, Dec. 10, 1959; lowest, 22.94 ft (6.99 m) below land surface, Sept. 26, 1963.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1978, 19.88 ft (6.06 m) below land surface.

APPENDIX

LIST OF REVISED QUALITY OF WATER PARAMETER CODES

LIST OF REVISED QUALITY OF WATER PARAMETER CODES

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
00623	NITROGEN, AMMONIA PLUS ORGANIC, DISSOLVED (MG/L AS N)
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)
00624	NITROGEN, AMMONIA PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS N)
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)
00625	NITROGEN, AMMONIA PLUS ORGANIC, TOTAL (MG/L AS N)
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)
00626	NITROGEN, AMMONIA PLUS ORGANIC, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00626	NITROGEN, KJELDAHL, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00683	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00683	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED TOTAL (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED (MG/L AS C)
00916	CALCIUM, TOTAL RECOVERABLE (MG/L AS CA)
00916	CALCIUM, TOTAL (MG/L AS CA)
00926	MAGNESIUM, SUSPENDED RECOVERABLE (MG/L AS MG)
00926	MAGNESIUM, SUSPENDED (MG/L AS MG)
00927	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG)
00927	MAGNESIUM, TOTAL (MG/L AS MG)
01001	ARSENIC, SUSPENDED TOTAL (UG/L AS AS)
01001	ARSENIC, SUSPENDED (UG/L AS AS)
01006	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
01006	BARIUM, SUSPENDED (UG/L AS BA)
01007	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
01007	BARIUM, TOTAL (UG/L AS BA)
01008	BARIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BA)
01008	BARIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BA)
01011	BERYLLIUM, SUSPENDED RECOVERABLE (UG/L AS BE)
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)
01012	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)
01012	BERYLLIUM, TOTAL (UG/L AS BE)
01013	BERYLLIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BE)
01013	BERYLLIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BE)
01014	BISMUTH, SUSPENDED TOTAL (UG/L AS BI)
01014	BISMUTH, SUSPENDED (UG/L AS BI)
01021	BORON, SUSPENDED RECOVERABLE (UG/L AS B)
01021	BORON, SUSPENDED (UG/L AS B)
01022	BORON, TOTAL RECOVERABLE (UG/L AS B)
01022	BORON, TOTAL (UG/L AS B)
01023	BORON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS B)
01023	BORON, TOTAL IN BOTTOM MATERIAL (UG/G AS B)
01026	CADMIUM, SUSPENDED RECOVERABLE (UG/L AS CD)
01026	CADMIUM, SUSPENDED (UG/L AS CD)
01027	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)
01027	CADMIUM, TOTAL (UG/L AS CD)
01028	CADMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CD)
01028	CADMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CD)
01029	CHROMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CR)
01029	CHROMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CR)
01031	CHROMIUM, SUSPENDED RECOVERABLE (UG/L AS CR)
01031	CHROMIUM, SUSPENDED (UG/L AS CR)
01034	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
01034	CHROMIUM, TOTAL (UG/L AS CR)
01036	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
01036	COBALT, SUSPENDED (UG/L AS CO)

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01037	COBALT, TOTAL RECOVERABLE (UG/L AS CO)
01037	COBALT, TOTAL (UG/L AS CO)
01038	COBALT, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CO)
01038	COBALT, TOTAL IN BOTTOM MATERIAL (UG/G AS CO)
01041	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
01041	COPPER, SUSPENDED (UG/L AS CU)
01042	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
01042	COPPER, TOTAL (UG/L AS CU)
01043	COPPER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CU)
01043	COPPER, TOTAL IN BOTTOM MATERIAL (UG/G AS CU)
01044	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
01044	IRON, SUSPENDED (UG/L AS FE)
01045	IRON, TOTAL RECOVERABLE (UG/L AS FE)
01045	IRON, TOTAL (UG/L AS FE)
01050	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
01050	LEAD, SUSPENDED (UG/L AS PB)
01051	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
01051	LEAD, TOTAL (UG/L AS PB)
01052	LEAD, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS PB)
01052	LEAD, TOTAL IN BOTTOM MATERIAL (UG/G AS PB)
01053	MANGANESE, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MN)
01053	MANGANESE, TOTAL IN BOTTOM MATERIAL (UG/G AS MN)
01054	MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)
01054	MANGANESE, SUSPENDED (UG/L AS MN)
01055	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
01055	MANGANESE, TOTAL (UG/L AS MN)
01061	MOLYBDENUM, SUSPENDED RECOVERABLE (UG/L AS MO)
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)
01062	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
01062	MOLYBDENUM, TOTAL (UG/L AS MO)
01063	MOLYBDENUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MO)
01063	MOLYBDENUM, TOTAL IN BOTTOM MATERIAL (UG/G AS MO)
01066	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
01066	NICKEL, SUSPENDED (UG/L AS NI)
01067	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
01067	NICKEL, TOTAL (UG/L AS NI)
01068	NICKEL, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS NI)
01068	NICKEL, TOTAL IN BOTTOM MATERIAL (UG/G AS NI)
01076	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)
01076	SILVER, SUSPENDED (UG/L AS AG)
01077	SILVER, TOTAL RECOVERABLE (UG/L AS AG)
01077	SILVER, TOTAL (UG/L AS AG)
01078	SILVER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AG)
01078	SILVER, TOTAL IN BOTTOM MATERIAL (UG/G AS AG)
01081	STRONTIUM, SUSPENDED RECOVERABLE (UG/L AS SR)
01081	STRONTIUM, SUSPENDED (UG/L AS SR)
01082	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)
01082	STRONTIUM, TOTAL (UG/L AS SR)
01083	STRONTIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS SR)
01083	STRONTIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS SR)
01086	VANADIUM, SUSPENDED TOTAL (UG/L AS V)
01086	VANADIUM, SUSPENDED (UG/L AS V)
01091	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)
01091	ZINC, SUSPENDED (UG/L AS ZN)
01092	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
01092	ZINC, TOTAL (UG/L AS ZN)

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01093	ZINC, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS ZN)
01093	ZINC, TOTAL IN BOTTOM MATERIAL (UG/G AS ZN)
01096	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)
01096	ANTIMONY, SUSPENDED (UG/L AS SB)
01101	TIN, SUSPENDED RECOVERABLE (UG/L AS SN)
01101	TIN, SUSPENDED (UG/L AS SN)
01102	TIN, TOTAL RECOVERABLE (UG/L AS SN)
01102	TIN, TOTAL (UG/L AS SN)
01105	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)
01105	ALUMINUM, TOTAL (UG/L AS AL)
01107	ALUMINUM, SUSPENDED RECOVERABLE (UG/L AS AL)
01107	ALUMINUM, SUSPENDED (UG/L AS AL)
01108	ALUMINUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AL)
01108	ALUMINUM, TOTAL IN BOTTOM MATERIAL (UG/G AS AL)
01116	CESIUM, SUSPENDED TOTAL (UG/L AS CS)
01116	CESIUM, SUSPENDED (UG/L AS CS)
01121	GALLIUM, SUSPENDED TOTAL (UG/L AS GA)
01121	GALLIUM, SUSPENDED (UG/L AS GA)
01126	GERMANIUM, SUSPENDED TOTAL (UG/L AS GE)
01126	GERMANIUM, SUSPENDED (UG/L AS GE)
01131	LITHIUM, SUSPENDED RECOVERABLE (UG/L AS LI)
01131	LITHIUM, SUSPENDED (UG/L AS LI)
01132	LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)
01132	LITHIUM, TOTAL (UG/L AS LI)
01136	RUBIDIUM, SUSPENDED TOTAL (UG/L AS RB)
01136	RUBIDIUM, SUSPENDED (UG/L AS RB)
01146	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
01146	SELENIUM, SUSPENDED (UG/L AS SE)
01151	TITANIUM, SUSPENDED TOTAL (UG/L AS TI)
01151	TITANIUM, SUSPENDED (UG/L AS TI)
01161	ZIRCONIUM, SUSPENDED TOTAL (UG/L AS ZR)
01161	ZIRCONIUM, SUSPENDED (UG/L AS ZR)
01170	IRON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS FE)
01170	IRON, TOTAL IN BOTTOM MATERIAL (UG/G AS FE)
01505	ALPHA, SUSPENDED TOTAL (PCI/L)
01505	ALPHA, SUSPENDED (PCI/L)
01506	ALPHA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
01506	ALPHA, SUSPENDED, COUNTING ERROR (PCI/L)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS U NATURAL)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/L AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/G AS U NATURAL)
03505	BETA, SUSPENDED TOTAL (PCI/L)
03505	BETA, SUSPENDED (PCI/L)
03506	BETA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
03506	BETA, SUSPENDED, COUNTING ERROR (PCI/L)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS CS-137)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS CS-137)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS SR/YT-90)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS SR/YT-90)

LIST OF REVISED QUALITY OF WATER PARAMETER CODES--CONTINUED

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
03518	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS CS-137)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS CS-137)
07010	TRITIUM, SUSPENDED TOTAL (PCI/L)
07010	TRITIUM, SUSPENDED (PCI/L)
07011	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07011	TRITIUM, SUSPENDED, COUNTING ERROR (PCI/L)
07014	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (TRITIUM UNITS)
07014	TRITIUM, SUSPENDED, COUNTING ERROR (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED TOTAL (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED (TRITIUM UNITS)
07052	CALCIUM 45, SUSPENDED TOTAL (PCI/L)
07052	CALCIUM 45, SUSPENDED (PCI/L)
07053	CALCIUM 45, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07053	CALCIUM 45, SUSPENDED, COUNTING ERROR (PCI/L)
07062	IRON 59, SUSPENDED TOTAL (PCI/L)
07062	IRON 59, SUSPENDED (PCI/L)
07063	IRON 59, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07063	IRON 59, SUSPENDED, COUNTING ERROR (PCI/L)
07082	RHODAMINE WT, SUSPENDED TOTAL (UG/L)
07082	RHODAMINE WT, SUSPENDED (UG/L)
07102	SELENIUM 75, SUSPENDED TOTAL (PCI/L)
07102	SELENIUM 75, SUSPENDED (PCI/L)
07103	SELENIUM 75, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07103	SELENIUM 75, SUSPENDED, COUNTING ERROR (PCI/L)
07122	SILVER 110, SUSPENDED TOTAL (PCI/L)
07122	SILVER 110, SUSPENDED (PCI/L)
07123	SILVER 110, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07123	SILVER 110, SUSPENDED, COUNTING ERROR (PCI/L)
07142	SULFUR 35, SUSPENDED TOTAL (PCI/L)
07142	SULFUR 35, SUSPENDED (PCI/L)
07143	SULFUR 35, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07143	SULFUR 35, SUSPENDED, COUNTING ERROR (PCI/L)
09505	RADIUM 226, SUSPENDED TOTAL (PCI/L)
09505	RADIUM 226, SUSPENDED (PCI/L)
13505	STRONTIUM 90, SUSPENDED TOTAL (PCI/L)
13505	STRONTIUM 90, SUSPENDED (PCI/L)
13506	STRONTIUM 90, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
13506	STRONTIUM 90, SUSPENDED, COUNTING ERROR (PCI/L)
22705	URANIUM, NATURAL, SUSPENDED TOTAL (UG/L AS U NATURAL)
22705	URANIUM, NATURAL, SUSPENDED (UG/L AS U NATURAL)
28404	CESIUM 137, SUSPENDED TOTAL (PCI/L)
28404	CESIUM 137, SUSPENDED (PCI/L)
28405	CESIUM 137,SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28405	CESIUM 137,SUSPENDED, COUNTING ERROR (PCI/L)
28412	CESIUM 134, SUSPENDED TOTAL (PCI/L)
28412	CESIUM 134, SUSPENDED (PCI/L)
28413	CESIUM 134, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28413	CESIUM 134, SUSPENDED, COUNTING ERROR (PCI/L)
29633	SCANDIUM 46, SUSPENDED TOTAL (PCI/L)
29633	SCANDIUM 46, SUSPENDED (PCI/L)
29634	SCANDIUM 46, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
29634	SCANDIUM 46, SUSPENDED, COUNTING ERROR (PCI/L)
31501	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)
31501	IMMEDIATE COLIFORM (COL. PER 100 ML)
39332	ALDRIN, SUSPENDED TOTAL (UG/L)
39332	ALDRIN, SUSPENDED (UG/L)

LIST OF REVISED QUALITY OF WATER PARAMETER CODES--CONTINUED

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
39342	LINDANE, SUSPENDED TOTAL (UG/L)
39342	LINDANE, SUSPENDED (UG/L)
39353	CHLORDANE, SUSPENDED TOTAL (UG/L)
39353	CHLORDANE, SUSPENDED (UG/L)
39362	DDD, SUSPENDED TOTAL (UG/L)
39362	DDD, SUSPENDED (UG/L)
39367	DDE, SUSPENDED TOTAL (UG/L)
39367	DDE, SUSPENDED (UG/L)
39372	DDT, SUSPENDED TOTAL (UG/L)
39372	DDT, SUSPENDED (UG/L)
39382	DIELDRIN, SUSPENDED TOTAL (UG/L)
39382	DIELDRIN, SUSPENDED (UG/L)
39392	ENDRIN, SUSPENDED TOTAL (UG/L)
39392	ENDRIN, SUSPENDED (UG/L)
39402	TOXAPHENE, SUSPENDED TOTAL (UG/L)
39402	TOXAPHENE, SUSPENDED (UG/L)
39412	HEPTACHLOR, SUSPENDED TOTAL (UG/L)
39412	HEPTACHLOR, SUSPENDED (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED TOTAL (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED (UG/L)
39432	ISODRIN, SUSPENDED TOTAL (UG/L)
39432	ISODRIN, SUSPENDED (UG/L)
39502	AROCLOR, SUSPENDED TOTAL, 1248 PCB SERIES (UG/L)
39502	AROCLOR, SUSPENDED, 1248 PCB SERIES (UG/L)
39506	AROCLOR, SUSPENDED TOTAL, 1254 PCB SERIES (UG/L)
39506	AROCLOR, SUSPENDED, 1254 PCB SERIES (UG/L)
39510	AROCLOR, SUSPENDED TOTAL, 1260 PCB SERIES (UG/L)
39510	AROCLOR, SUSPENDED, 1260 PCB SERIES (UG/L)
39518	PCB, SUSPENDED TOTAL (UG/L)
39518	PCB, SUSPENDED (UG/L)
39533	MALATHION, SUSPENDED TOTAL (UG/L)
39533	MALATHION, SUSPENDED (UG/L)
39543	PARATHION, SUSPENDED TOTAL (UG/L)
39543	PARATHION, SUSPENDED (UG/L)
39573	DIAZINON, SUSPENDED TOTAL (UG/L)
39573	DIAZINON, SUSPENDED (UG/L)
39603	METHYL PARATHION, SUSPENDED TOTAL (UG/L)
39603	METHYL PARATHION, SUSPENDED (UG/L)
39733	2,4-D, SUSPENDED TOTAL (UG/L)
39733	2,4-D, SUSPENDED (UG/L)
39743	2,4,5-T, SUSPENDED TOTAL (UG/L)
39743	2,4,5-T, SUSPENDED (UG/L)
39757	MIREX, SUSPENDED TOTAL (UG/L)
39757	MIREX, SUSPENDED (UG/L)
39763	SILVEX, SUSPENDED TOTAL (UG/L)
39763	SILVEX, SUSPENDED (UG/L)
70299	SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED TOTAL (MG/L)
70299	SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED (MG/L)
71895	MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)
71895	MERCURY, SUSPENDED (UG/L AS HG)
71900	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)
71900	MERCURY, TOTAL (UG/L AS HG)
71921	MERCURY, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS HG)
71921	MERCURY, TOTAL IN BOTTOM MATERIAL (UG/G AS HG)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/L AS U NATURAL)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/L AS U NATURAL)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS SR/YT-90)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS SR/YT-90)

INDEX