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U.S. Department of the Interior
U.S. Geological Survey

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

CALENDAR FOR WATER YEAR 2001

2000

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2001

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U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Arkansas Water Year 2001

By J.E. Porter, D.A. Evans, and L.M. Remsing

Water-Data Report AR-01-1



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

U. S. DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

Charles G. Groat, Director

For information on the water program in Arkansas write to
District Chief, Water Resources Division
U.S. Geological Survey
401 Hardin Road
Little Rock, Arkansas 72211

2002

PREFACE

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

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

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

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Rene' Freret

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Marsha Gipson

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Dwight Lasker

Autry Meeker

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This report was prepared in cooperation with the State of Arkansas and with other agencies under the general supervision of C. Shane Barks, Assistant District Chief and John E. Terry, District Chief, Arkansas.

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

Water resources data reported for the 2001 water year for Arkansas consist of records of discharge and water quality (physical measurements and chemical concentrations) of streams, water quality of lakes, and ground-water levels and ground-water quality. Data from selected sites in Missouri and Oklahoma also are included. This report contains daily discharge records for 89 surface-water gaging stations, water-quality data for 70 surface-water stations and 5 wells, and water levels for 13 observation wells. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements.

*Arkansas, *Missouri, *Oklahoma, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow

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HYDROLOGIC-DATA STATIONS IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

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[Letters after station name designate type of data: (d) daily mean discharge, (c) chemical, (b) biological, (m) microbiological, (o) dissolved oxygen,(t) water temperature, (s) sediment.]

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INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with local, State, and other Federal agencies, obtains a large amount of data pertaining to the water resources of Arkansas each water year (October 1 through September 30). These data, accumulated during many water years, constitute a valuable database for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, these data are published annually in this report series entitled "Water Resources Data-Arkansas" and are stored in the U.S. Geological Survey National Water Information System (NWIS) and U.S. Environmental Protection Agency STORET databases.

Water resources data reported for the 2001 water year for Arkansas consist of records of discharge and water quality (physical measurements and chemical concentrations) of streams, water quality of lakes, and ground-water levels and ground-water quality. Data from selected sites in Missouri and Oklahoma also are included. This report contains daily discharge records for 89 surface-water gaging stations; water-quality data for 70 surface-water stations and 5 wells, and water levels for 13 observation wells. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements.

Records of stream discharge or gage height, and contents, volume, or elevation of lakes were first published in a series of U.S. Geological Survey Water-Supply Papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these Water-Supply Papers were in an annual series and for 1961-65 and 1966-70 were in a 5-year series. Records of chemical constituent concentrations, 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 U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, Colorado, 80225-0286.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual Water-Data Reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate Water-Data 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 annual Water-Data report on a State-boundary basis. These annual Water-Data 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-01-1. Water-Data Reports are for sale in paper copy or on microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The Geological Survey and agencies of the State of Arkansas have had cooperative agreements for the systematic collection of surface-water records since 1927, and for collection of ground-water and water-quality records since 1946. Organizations that assisted in collecting information through cooperative agreement with the Geological Survey in water year 2001 are:

Arkansas Department of Environmental Quality, Fay Boozman, Interim Director
Arkansas Department of Parks and Tourism, Richard W. Davies, Director
Arkansas Game and Fish Commission, Hugh Durham, Director
Arkansas Geological Commission, William Bush, State Geologist
Arkansas Highway and Transportation Department, Dan Flowers, Director
Arkansas Soil and Water Conservation Commission, J. Randy Young, Director
Beaver Water District, Alan Fortenberry, Engineer-Manager
Central Arkansas Water, James T. Harvey, Manager
City of Batesville, Joe M. Biard, City Mayor
City of Cabot, Joe Allman, City Mayor
City of Fayetteville, Jim Beavers, City Engineer
City of Fort Smith, Steve Parke, Director of Utilities
Rogers Water Utilities, Tom McAlister, Utility Manager

Assistance in the form of funds or services was provided by the U.S. Army Corps of Engineers, National Weather Service, National Park Service, Natural Resources Conservation Service, Southwest Power Administration, and Entergy in collecting records for some of the gaging stations and water-quality stations published in this report. Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Streamflow varies seasonally in Arkansas and generally reflects precipitation patterns unless a stream is regulated. Slightly above-average rainfall resulted in above-average runoff in the western and southeastern parts of the State and below-average rainfall resulted in slightly below-average runoff in the northern and west-central parts of the State during the 2001 water year. Streamflow for the year (as a percentage of the median for the base period 1961-1990) was 114 percent for the index station on the Saline River near Rye, in southern Arkansas, 75 percent for the index station on the Buffalo River near St. Joe, in northern Arkansas, 96 percent for the index station on the Big Piney Creek at Highway 164 near Dover, in west-central Arkansas, and 124 percent for the index station on the James Fork near Hackett, in western Arkansas. Monthly and annual mean discharges for the 2001 water year, and median for the monthly and annual mean discharges for the base period 1961-1990 at the St. Joe, Hackett, Dover, and Rye sites are shown on figure 1.

Storm systems during the period February 14-16 produced moderate to heavy rainfall over portions of the State, which caused local flooding. However, no peaks exceeded the 50-year recurrence interval during this period.

Streamflow statistics for the 2001 water year compared to the streamflow statistics for the period of record at 10 stations are presented below.

Station identification	Period of record	Statistics of discharge during 2001 water year (cubic feet per second) Maximum instantaneous	Minimum instantaneous	Mean	Statistics of discharge during period of record (cubic feet per second) Maximum instantaneous	Minimum instantaneous	Mean
07047942 L'Anguille River near Colt	1970-01	4,770	5.0	558	16,600	0.99	712
07060710 North Sylamore Creek near Fifty-Six	1965-01	2,670	1.4	22.8	25,200	1.0	45.6
07077380 Cache River at Egypt	1964-01	4,760	0	707	8,490	0	854
07196900 Baron Fork at Dutch Mills	1958-01	5,000	0	34.1	20,900	0	45.5
07249400 James Fork near Hackett	1958-01	5,130	.30	169	30,000	0	145
07261000 Cadron Creek near Guy	1954-01	8,190	.01	158	24,200	0	271
07264000 Bayou Meto near Lonoke	1954-01	3,530	0	277	5,750	0	288
07340300 Cossatot River near Vandervoort	1967-01	17,300	8.8	200	32,000	5.5	196
07356000 Ouachita River near Mt. Ida	1941-01	28,100	16.0	786	102,000	2.3	731
07364150 Bayou Bartholomew near McGehee	1938-42, 1945-01	3,950	15.0	757	6,870	0.20	687

Surface-Water Quality

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

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

In the Ozark Plateaus, which are experiencing rapid population growth, surface water locally is affected by both point and non-point sources of contamination. Principal point sources are wastewater-treatment plants.

Principal non-point source contributions are related to animal farming practices. Watersheds where point and non-point source contamination is a major concern are the upper White River and Illinois River.

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

Although the Arkansas River and other streams in the Arkansas Valley are affected locally by contaminant sources, they continue to be considered as a source of water for public supply and irrigation. Many of the small streams continue to show effects of coal mining. Municipal and industrial discharges to the Arkansas River may affect its potability, however, upgrading of wastewater-treatment plants, storage effects of the Arkansas River Navigation System, and tributary dams have moderated the effects of inflowing contaminants.

Retrieving data for water-quality sites now can be achieved via the internet. Real-time data from monitors and water-qaulity data from laboratory analyses can be retrieved from the website at:

http://water.usgs.gov

Concentrations of selected water-quality constituents are listed below for sampling sites on some principal streams in the State. Concentrations of the constituents for the 2001 water year are compared to concentrations for the period of record to indicate changes in water quality.

The highest suspended-sediment concentration found in the selected streams in 2001 water year was 1,320 mg/L in the Red River at Index. Suspended-sediment concentrations, in milligrams per liter, for selected stream sampling sites are presented below.

	Period of Record	2001 water year		Period of record through 2001	
		Minimum	Maximum	Minimum	Maximum
0704660					
Right Hand Chute of Little River at Rivervale	1977-01	66	346	25	1,070
07047942					
L'Anguille River near Colt	1970-01	67	244	4	2,410
07060710					
North Sylamore Creek near Fifty-Six	1966-01	13	56	0	198
07250550					
Arkansas River at David D. Terry Lock and Dam below Little Rock	1969-01	5	47	2	4,140
07362000	1947-52,				
Ouachita River at Camden	1974-01	19	93	6	639
07337000	1947-56,				
Red River at Index	1980-01	161	1,320	16	8,200

The highest fecal-coliform bacteria density found in selected streams in 2001 water year was 1,600 colonies per 100 mL in Ouachita River at Camden. Fecal-coliform bacteria densities, in colonies per 100 mL, for selected stream sampling sites are presented below. [E, Results estimated]

	Period of Record	2001 water year		Period of record through 2001	
		Minimum	Maximum	Minimum	Maximum
07047942					
L'Anguille River near Colt	1970-01	E56	220	<3	E6,800
07053250					
Yocum Creek near Oak Grove	1993-01	E2	360	<1	E15,000
07060710					
North Sylamore Creek near Fifty-Six	1966-01	<1	51	<1	1,400
07362000	1947-52,				
Ouachita River at Camden	1974-01	E9	1,600	<1	1,600

The highest dissolved-solids concentration found in selected streams in 2001 water year was 380 mg/L in the L'Anguille River near Colt. Dissolved-solids concentrations, in milligrams per liter, for selected sampling sites are presented below.

	Period of Record	2001 water year		Period of record through 2001	
		Minimum	Maximum	Minimum	Maximum
07047942					
L'Anguille River near Colt	1970-01	99	380	46	424
07053250					
Yocum Creek near Oak Grove	1993-01	200	228	146	245
07060710					
North Sylamore Creek near Fifty-Six	1966-01	127	162	72	212
07250550					
Arkansas River at David D. Terry Lock and Dam below Little Rock	1969-01	219	379	85	690

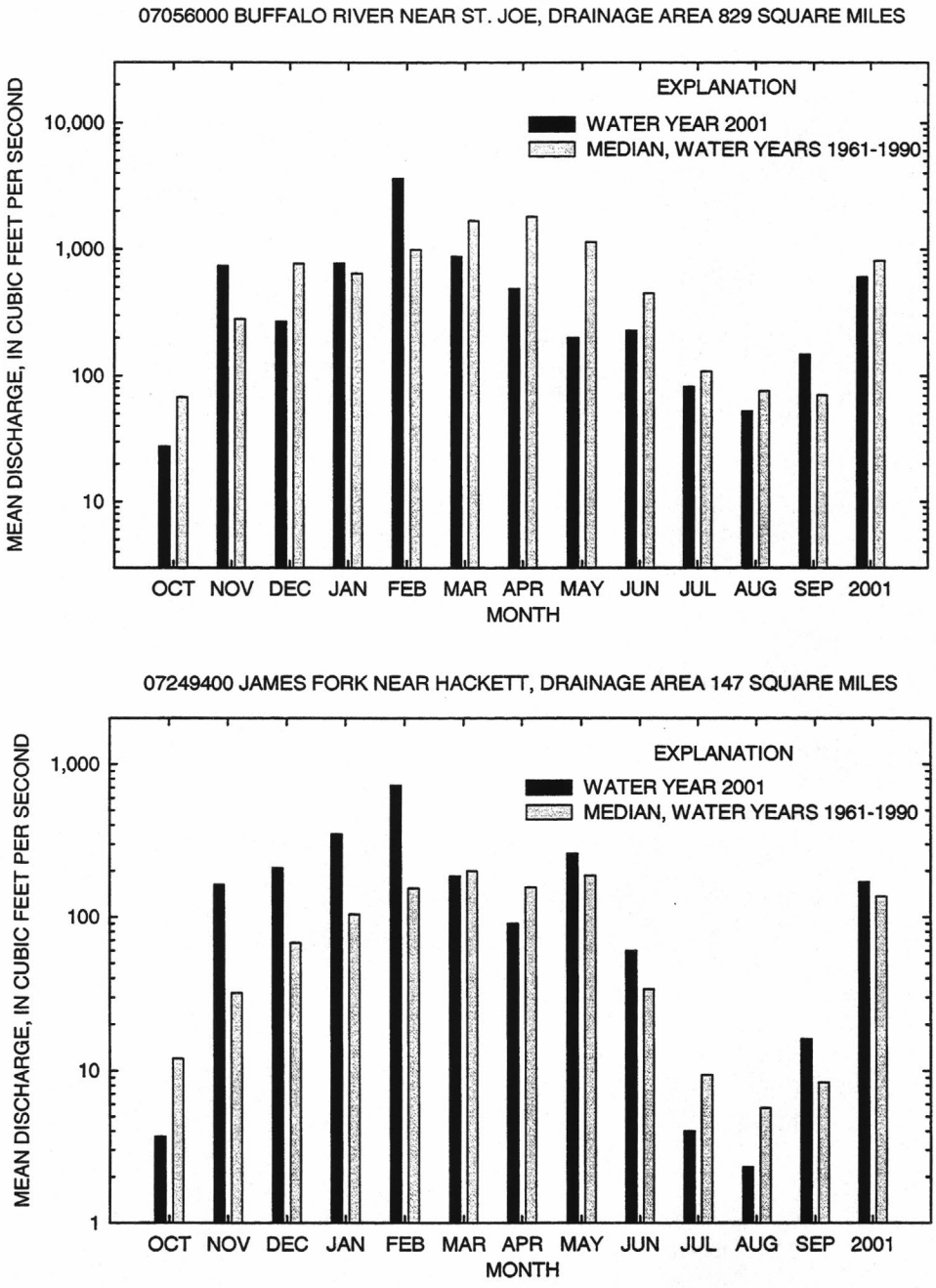


Figure 1.--Comparison of discharge at four representative long-term gaging stations for the 2001 water year with the median of the monthly and annual mean discharges for a 30-year base period.

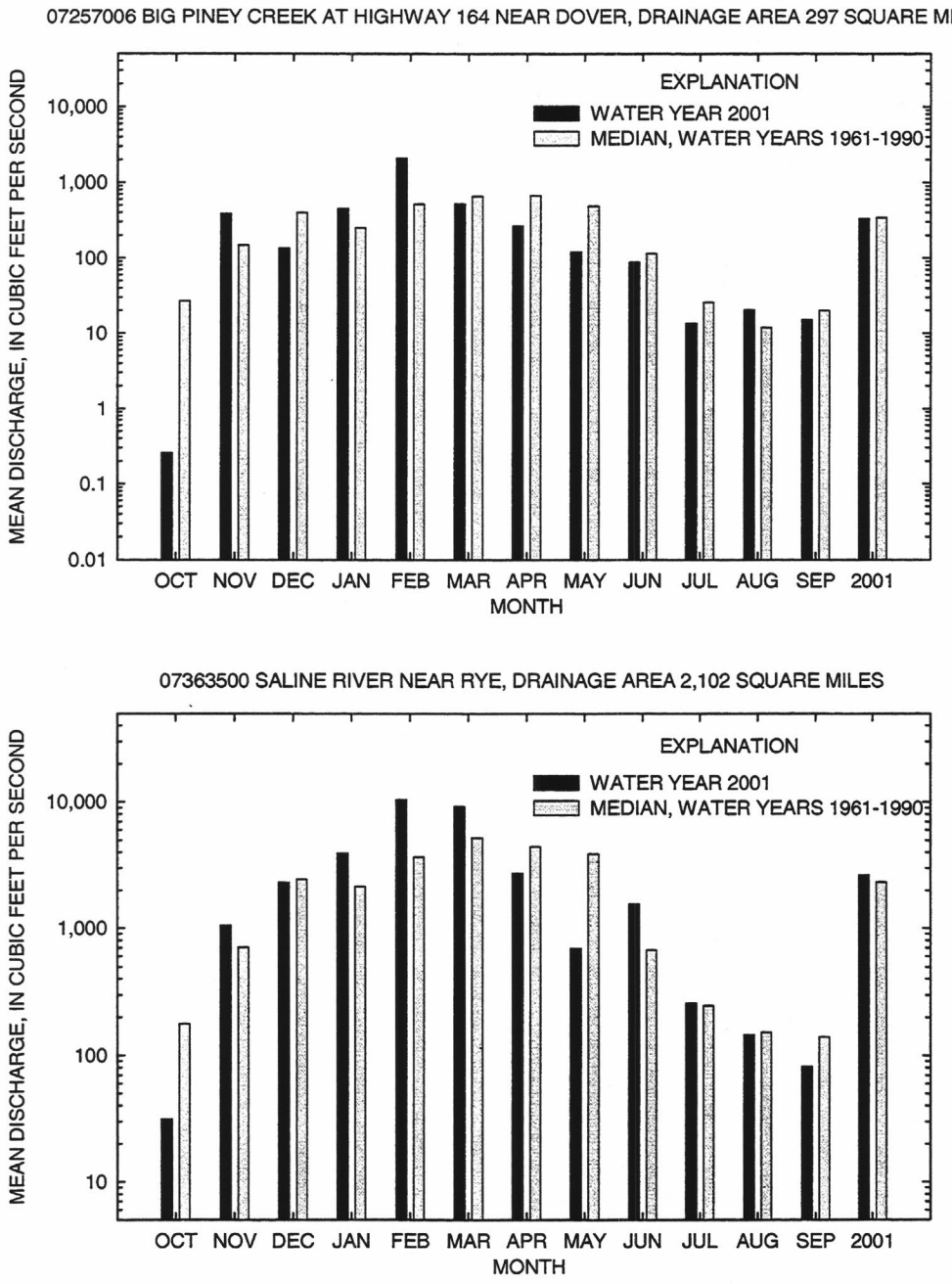


Figure 1.--Comparison of discharge at four representative long-term gaging stations for the 2001 water year with the median of the monthly and annual mean discharges for a 30-year base period-continued.

The highest dissolved chloride concentration found in selected streams in 2001 water year was 95.4 mg/L in the Arkansas River at David D. Terry Lock and Dam below Little Rock. Dissolved chloride concentrations, in milligrams per liter, for selected sampling sites are presented below.

	Period of Record	2001 water year		Period of record through 2001	
		Minimum	Maximum	Minimum	Maximum
07047942					
L'Anguille River near Colt	1977-01	5.5	27	1.9	49
07053250					
Yocum Creek near Oak Grove	1970-01	9.5	16.1	4.6	16.1
07060710					
North Sylamore Creek near Fifty-Six	1966-01	1.6	2.1	.3	18
07250550					
Arkansas River at David D. Terry Lock and Dam below Little Rock	1969-01	52.2	95.4	11	290
07362000	1947-52,				
Ouachita River at Camden	1974-01	2.7	4.7	2.1	79

The highest total phosphorus concentration found in selected streams in 2001 water year was 0.12 mg/L in Arkansas River at David D. Terry Dam below Little Rock. Total phosphorus concentrations, in milligrams per liter, for selected sampling sites are presented below. [E, Results estimated]

	Period of Record	2001		Period of record through 2001	
		Minimum	Maximum	Minimum	Maximum
07053250					
Yocum Creek near Oak Grove	1977-01	0.037	0.074	<0.01	0.45
07060710					
North Sylamore Creek near Fifty-Six	1970-01	E.002	<.004	E.002	.34
07250550					
Arkansas River at David D. Terry Lock and Dam below Little Rock	1966-01	.08	.12	<.01	.61
07362000					
Ouachita River at Camden	1969-01	<.02	.07	<.01	.31

Ground-Water Levels

A majority of the ground-water consumption in Arkansas is from three major aquifers--the Mississippi River Valley alluvial aquifer (hereafter referred to as the alluvial aquifer), the Sparta aquifer, and the Memphis aquifer. The alluvial aquifer occurs within the Quaternary deposits of the Mississippi Alluvial Plain, which covers approximately the eastern one-third of the State, and is the most productive aquifer within Arkansas. The Sparta and Memphis aquifers occur within the Sparta and Memphis Sands of the Claiborne Group of Eocene age and are the second and third most productive aquifers within the State. The Sparta and Memphis aquifers underlie the alluvial aquifer within the Mississippi Alluvial Plain and extend into the West Gulf Coastal Plain in the south-central part of the State. The alluvial aquifer provides a majority of Arkansas' ground-water used for irrigation and fish farming; the Sparta and Memphis aquifers provide most of the ground water for industry and public supply.

The regional potentiometric gradient in the alluvial aquifer is toward the south and southeast from an altitude of approximately 280 feet above sea level in the northeastern part of the State to about 80 feet in the southern part. The natural gradient of the water surface has been interrupted at three locations where large withdrawals for irrigation have created cones of depression. The first cone of depression has become elongated along a northwest to southeast axis, and is located in parts of Lonoke, Prairie, and Arkansas Counties; the second cone has developed west of Crowleys Ridge in Craighead, Cross, and Poinsett Counties. The third cone has developed in eastern Monroe and western Lee and St. Francis Counties.

The regional potentiometric gradient of the Sparta and Memphis aquifers generally is southeastward except where affected by large withdrawals. Three cones of depression, centered in Columbia, Union, and Jefferson Counties, have developed because of large withdrawals for industrial and public supplies in those areas. Additional large withdrawals for irrigation in the Grand Prairie region have resulted in a northeasterly elongation of the cone centered under Arkansas County. The deepest water level in the Sparta and Memphis aquifers during the spring of 2001 was 460vg feet below land surface, which occurred in Union County.

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list

apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 to September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Artificial substrate is a device that 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. (See also "Substrate")

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. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass")

Bacteria are microscopic unicellular organisims, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peaks per year will be published.

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 ft) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler may also contain a component of the suspended load.

Bedload discharge (tons per day) is rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload" and "Sediment")

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

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

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

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) 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. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3\ \pi r^3 \quad \text{cone } 1/3\ \pi r^3 h \quad \text{cylinder } \pi r^3 h.$$

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Cfs-day (See "Cubic foot per second-day")

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 BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of waters and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer

and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well. (See also "Aquifer")

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.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, 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 foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-feet" sometimes is used synonymously with "cubic feet per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily-mean discharges reported in the daily-value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Daily mean suspended-sediment concentration," "Sediment," and "Suspended-sediment concentration")

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data Collection Platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents such as suspended sediment, bedload, and dissolved or suspended chemical constituents, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon Index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

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

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. 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 upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, 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. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive, the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediments.

Fecal coliform bacteria are present in the intestine 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 plus or minus 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. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that 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 plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any National geodetic datum. However, if the elevation of the gage datum relative to the National datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the National datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution which uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic benchmark 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 benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic index stations referred to in this report are four continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

Laboratory Reporting Level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.)

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e\frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-Term Method Detection Level (LT–MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT–MDL data are collected on a continuous basis to assess year-to-year variations in the LT–MDL. The LT–MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT–MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

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

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

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

Method Detection Limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate.")

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and U.S. first-order terrestrial leveling networks.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

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. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

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 meter (m^2), acre, or hectare. 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 milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) 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, as used in this report, agrees with the recommendation 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	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation to the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

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. (See also "Plankton")

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 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. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

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

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bed (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 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. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council, and typically used to denote location along a river.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin in a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums, (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See conversion of units page (inside back cover) for identification of the datum used in this report.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment 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 and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Seven-day 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-
solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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.

Substrate Embeddedness Class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

0	< no gravel or larger substrate		
1	> 75%		
2	51-75%	4	5-25%
3	26-50%	5	< 5%

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are 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 directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

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). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/day) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. 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 directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

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

Kingdom:	Animal
Phylum:	Arthropoda

Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm – preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder' is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) 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 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 both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 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. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the 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 length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume.")

Total recoverable is the amount of a given constituent in a whole-water sample after a 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 for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Sediment," "Suspended sediment," "Suspended-Sediment Concentration," "Bedload," and "Bedload discharge")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-Sediment Load," and "Total load")

Trophic group:

Filter feeder – diet composed of suspended plant and/or animal material.

Herbivore – diet composed predominantly of plant material.

Invertivore – diet composed predominantly of invertebrates.

Omnivore – diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore – diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the "REMARKS" column of the Annual Data Report.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the "2001 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

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

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

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

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. (See also "Plankton")

STATION IDENTIFICATION NUMBERS

Each data station, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water sites will differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order and Station Number

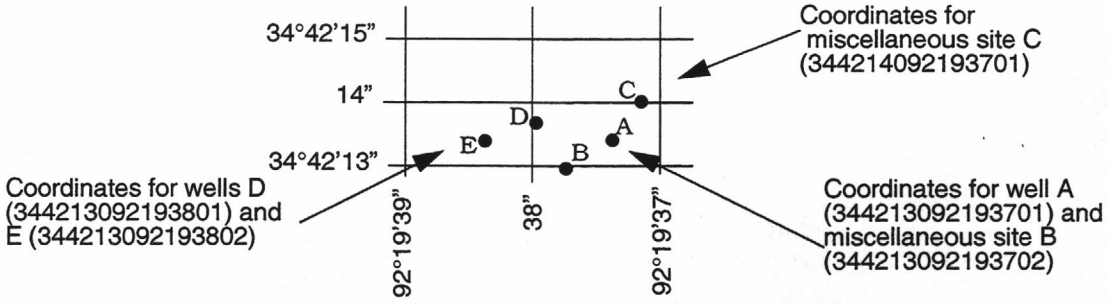
Since October 1, 1950, the order of listing hydrologic-station records in Geological Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations of first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated, with respect to the stream to which it is immediately tributary, is indicated by an indention in the list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These numbers are in the same downstream order as described in the paragraph above. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The downstream order number for each station, such as 07060710, which appears just to the left of the station name, includes the two-digit Part number "07" plus the six-digit downstream-order number "060710." This six-digit number can be expanded to 12 digits if necessary because of station density.

Numbering System for Wells

The well numbering system of the Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15-digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote

degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the well within a 1-second grid. See diagram below.



SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 33 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Data from the network, as well as information about individual sites, are available through the world wide web at:

http://water.usgs.gov/nasqan

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of more than 200 precipitation chemistry monitoring sites, (2) provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred, and (3) provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000. Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.sws.uiuc.edu

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 52 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents are being measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales is providing information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of

representatives from key Federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet annually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program is available through the world wide web at:

http://water.usgs.gov/nawqa/nawqa_home.html

In Arkansas, the Ozark Plateaus NAWQA study began in 1991 and sampled ground and surface water and aquatic biology intensively from 1993-95. The low intensity phase continued in 2001 with two streams sampled with NAWQA support. Included in this report are approximately monthly water quality and daily mean discharge for two surface-water stations, Yocum Creek near Oak Grove and North Sylamore Creek near Fifty-Six. The Mississippi Embayment NAWQA study began in 1994 and intensive sampling occurred in 1996 through 1998. Additional information about the Ozark Plateaus NAWQA and the Mississippi Embayment NAWQA are available at:

http://ar.water.usgs.gov

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

Tritium network is a network of stations that has been established to provide baseline information on the occurrence of tritium in the Nation's surface 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

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharge may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or any period of time. They may be obtained using a continuous stage-recording device, but need not be. Daily discharge records were computed and included in this report for 89 stations in Arkansas in 2001. Locations of surface-water stations are shown in figure 2 (page 46).

By contrast, partial records are obtained at stations where daily mean discharge values are not computed. Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

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, observation of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either a continuous reading on a nonrecording gage or from a water-stage recorder that collects and stores the data in some form at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations (TWRI's), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

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

presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (gaging station) consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that flow at it can reasonably be considered equivalent to flow at the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section

"Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually 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 or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ___ - ___, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS ___ - ___," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnote.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District Office computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Inches (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. The table of partial-record stations is followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no

gage height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site, are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used computing discharge for various unusual conditions have been explained in preceding paragraphs.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths, between 1.0 and 10 ft^3/s; to whole numbers, between 10 and 1,000 ft^3/s; and to three significant figures, above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to the discharge figures listed for partial-record stations.

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

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is on file in the District Office. Also, most gaging-station records are available in computer-usable form and many statistical analyses have been made. Information on the availability of unpublished data or statistical analyses may be obtained from the District Office. Real-time stream stage and flow data are available on the Arkansas District World Wide Web Home Page located at:

http://ar.water.usgs.gov

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

EXPLANATION OF SURFACE-WATER QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always require corresponding discharge data. Records of surface-water quality in this report may involve various types of data and measurement frequencies.

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. The water-quality records are given immediately after the water-discharge records for these stations. Seventy stations are included for 2001. The locations of these stations are shown in figure 3 (page 47).

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

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

1028	U.S. Geological Survey
80513	Arkansas District, WRD, USGS
80020	National Water-Quality Laboratory, WRD, USGS
81213	District Water-Quality Laboratory, Ocala, Florida
82913	Rolla, Missouri Sediment Lab

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

REVISIONS--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is that the data obtained represent the in situ quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. A1, A3, and Book 9, Chap. A1-A9. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly values beginning at 0100 hours and ending at 2400 hours for the day or record. More detailed records (hourly values) may be obtained from the Geological Survey District Office whose address is given on the back of the title page of this report.

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the microgram per liter level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination

introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

Sample handling procedures at all National Trends Network stations were changed substantially January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, Illinois 61820.

Water Temperature

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

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. To convert from degrees Celsius to degrees Fahrenheit or from degrees Fahrenheit to degrees Celsius, use one of these formulae: °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 or point samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment-discharge value differs from the value computed as the product of the discharge multiplied by mean concentration multiplied by 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

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.

Laboratory Measurements

Samples for biochemical-oxygen demand (BOD) and samples for indicator bacteria are analyzed locally. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colorado, Ocala, Florida, or Rolla, Missouri. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location,

drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the **LOCATION** nor the **DRAINAGE AREA** statements are repeated. The following information, as appropriate, are provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximum or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

Remarks Codes

The following remark codes may appear with water-quality data:

PRINT OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
<0.00	Due to numeric rounding format; actual value is known to be less than 0.005
K	Results based on colony count outside the acceptance range (non-ideal colony count)
V	Indicates the analyte was detected in both the sample and associated field blank

EXPLANATION OF GROUND-WATER LEVEL RECORDS

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

Data are included for 13 wells in Arkansas (fig. 4, page 368). Three wells are measured manually one or more times each year. Ten wells are measured using water-stage recorders. Each well is identified by means of a 15-digit number that is based on latitude and longitude (see diagram on page 22).

Data Collection and Computation

Measurements of water levels are made in many types of wells and under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized,

it is determined by conditions at a particular site. However, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or by a water-stage recorder. The water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Land-surface datum is the datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

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

Data Presentation

Each well record consists of the following information:

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

EXPLANATION OF GROUND-WATER QUALITY RECORDS

Collection of the Data

In an attempt to detect long-term changes in ground-water quality, a network of 25 monitoring sites has been established. The monitoring sites for sampling ground water were selected from all major aquifers. Each year two or more sites are sampled from large aquifers such as those in the Quaternary alluvium and Sparta Sand. Water samples are collected from all monitoring sites at 5-year intervals. Sampling schedules are staggered so that five or six sites are usually sampled each year. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years. In 2001, five sites in the network were sampled.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-Site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water levels and quality are published in a section titled Ground-Water Levels and Quality of Ground Water. Data for levels and quality of ground water are listed alphabetically by county and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. The well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARKS codes listed for surface-water-quality records are also applicable to ground-water-quality records.

QUALITY-CONTROL DATA

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

BLANK SAMPLES—Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank samples for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this District are:

Source solution blank – a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank – a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

Field blank – a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank – a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank – a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office.)

Sampler blank – a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Pump blank – a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank – a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

Filter blank – a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank – a blank solution that is treated with the sampler preservatives used for an environmental sample.

Canister blank – a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

REFERENCE SAMPLES—Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

REPLICATE SAMPLES—Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent sample – a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample – a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample – a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

SPIKE SAMPLES—Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Concurrent sample – a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample – a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data are also available through the WWW. In addition, data can be provided in various machine-readable formats. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District Offices (see address on the back of the title page).

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

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

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

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, chap. D1. 1975. 65 p.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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, chap. D1. 1974. 116 p.

2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

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

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 p.

3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.

3-AI0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3-A12. *Fluorometric procedures for dye tracing,* Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3-A13. *Computation of continuous records of streamflow,* by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.

3-A16. *Measurement of discharge using tracers,* by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers,* by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

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

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

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.

3-C2. *Field methods for measurement of fluvial sediment,* by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.

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

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

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

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

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

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

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

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 p.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling,* by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples,* edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements,* edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators,* edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples,* by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities,* by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

DISCONTINUED GAGING STATIONS

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

Station number	Station name	Drainage area (mi^2)	Period of record
	ST. FRANCIS RIVER BASIN		
07047000	St. Francis River floodway near Marked Tree (Dam)	4,644	1934-65
07047500	St. Francis River at Marked Tree	5,148	1934-73
07047815	Cross County Ditch near Birdeye	--	1995-00
07047882	Straight Slough near Birdeye	--	1995-00
07047904	Clark Corner Cut-Off near Colt	--	1995-00
	WHITE RIVER BASIN		
07048000	West Fork White River at Greenland	83.1	1945-83
07048500	West Fork White River near Fayetteville	118	1937-45
07049500	White River near Rogers	1,020	1952-63
**07055000	White River near Flippin	6,081	1928-80
*07055608	Crooked Creek at Yellville	406	1988-94
07057000	Buffalo River near Rush	1,096	1928-70
07057250	White River at Shipps Ferry	8,007	1963-64
07060892	Sullivan Creek at Sandtown	27.2	1990-91, 1993-94
**07061000	White River at Batesville	11,070	1937-58, 1987-94
07068890	Fourche River above Pocahontas	229	1964-70
**07069000	Black River at Pocahontas	4,845	1936-70
07069220	Spring River near Mammoth Springs	280	1988-94
*07069500	Spring River at Imboden	1,183	1936-94
07072000	Eleven Point River near Ravenden Springs	1,134	1930-33, 1936-94
07073000	Strawberry River near Evening Shade	217	1939-79
*07074000	Strawberry River near Poughkeepsie	473	1936-94
07073500	Piney Fork at Evening Shade	99.2	1939-84
**07075000	Middle Fork of Little Red River at Shirley	302	1939-84
*07075300	South Fork Little Red River at Clinton	148	1962-94
07076000	Little Red River near Heber Springs	1,153	1927-80
07076620	Little Red River near Searcy	1,648	1983-96
*07076750	White River at Georgetown	22,387	1991-94
07076850	Cypress Bayou near Beebe	166	1961-76
07077930	Big Creek near Moro	77.4	1961-70
07077950	Big Creek at Poplar Grove	448	1970-93
07078000	LaGrue Bayou near Stuttgart	176	1935-54
	ARKANSAS RIVER BASIN		
07194760	Illinois River near Viney Grove	80.7	1986 1986
07195400	Illinois River near Siloam Springs	509	1979-80, 1986
*07249500	Cove Creek near Lee Creek	35.3	1950-70
07251000	Frog Bayou near Mountainburg	74.2	1936-61
*07251500	Frog Bayou at Rudy	216	1950-70
07252500	Sixmile Creek Subwatershed No. 6 near Chismville	4.23	1960-70
07253000	Sixmile Creek at Chismville	24.1	1954-70
07253500	Sixmile Creek near Branch	36.7	1954-70

DISCONTINUED GAGING STATIONS--CONTINUED

Station Number	Station name	Drainage area (mi^2)	Period of record
	ARKANSAS RIVER BASIN--CONTINUED		
07254000	Sixmile Creek Subwatershed No. 5 near Chismville	2.76	1960-70
07254500	Sixmile Creek Subwatershed No. 2 near Caulksville	5.81	1960-70
07255000	Sixmile Creek at Caulksville	104	1954-70
07255100	Sixmile Creek near Subwatershed No. 23 near Branch	4.49	1960-70
07255500	Hurricane Creek near Branch	17.2	1954-70
07256000	Hurricane Creek near Caulksville	53	1954-70
*07256500	Spadra Creek at Clarksville	61.1	1952-70
*07258000	Arkansas River at Dardanelle	153670	1937-94
07259500	Petit Jean River near Waveland	516	1939-80
07262500	Fourche LaFave River near Nimrod	684	1936-80
07263465	Storm Ditch at Rolling Oaks Drive at Maumelle	0.36	1997
07264500	Bayou Meto near Stuttgart	574	1935-54
	RED RIVER BASIN		
*07339500	Rolling Fork near DeQueen	182	1948-80
*07340500	Cossatot River near DeQueen	360	1938-80
*07341000	Saline River near Dierks	121	1938-80
07349430	Bodcau Creek at Stamps	234	1958-70
07356500	South Fork Ouachita River at Mount Ida	64	1949-70
07358000	Ouachita River near Hot Springs	1,405	1922-30
07359700	Caddo River at Glenwood	201	1988
07361000	Little Missouri River near Murfreesboro	380	1928-31, 1937-77
*07362500	Moro Creek near Fordyce	240	1951-83
*07363200	Saline River near Sheridan	1,123	1970
07364000	Saline River near Warren	2,476	1928-31, 1937-40
*07365800	Cornie Bayou near Three Creeks	180	1956-87
07365900	Three Creeks near Three Creeks	50.3	1956-71

*Converted to partial-record station

**Converted to stage-only station

DISCONTINUED WATER-QUALITY STATIONS

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

Station number	Station name	Type of record	Period of record
	MISSISSIPPI RIVER MAIN STEM		
07024181	Mississippi River at Huffman	Chem.	1974-83
07029150	Mississippi River at Barfield	Chem.	1974-83
07032010	Mississippi River at West Memphis	Chem.	1969-70
07040496	Cockle Burr Slough Ditch near Monette	Chem, Sed	1979-97
07047970	Mississippi River at Helena	Chem.	1972-74
07265450	Mississippi River near Arkansas City	Chem.	1974-93
		Sp. Cond., Temp.	1974-81
07265455	Mississippi River near Greenville, Mississippi	Chem.	1973-74
	ST. FRANCIS RIVER BASIN		
07040350	Big Slough Ditch near Paragould	Chem., Sed.	1978-84
07040424	Locust Creek Ditch near Paragould	Chem., Sed.	1978-84
07040428	Eight Mile Ditch near Paragould	Chem., Sed.	1978-84
07040440	Thompson Creek near Lester	Chem., Sed.	1978-81
07040445	Big Bay Ditch near Lester	Chem., Sed.	1978-81
07040500	Cockle Burr Slough Ditch near Black Oak	Chem., Sed.	1978-79
07046500	Big Lake Outlet near Manila	Chem., Sed.	1972-83
07046535	Penniscot Bayou near Yarbro	Chem.	1972-74
07047400	Penniscot Bayou near Dell	Chem.	1974-83
07047500	St. Francis River at Marked Tree	Chem.	1946, 1950-55, 1966-73
07047560	Tyronza River near Dyess	Chem.	1977
07047570	Tyronza Bayou near Dyess	Chem.	1977
07047575	Tyronza River Ditch No. 40 near Chelford	Chem.	1977
07047585	Tyronza River Ditch No. 6 near Lepanto	Chem.	1977
07047590	Tyronza River near Spear Lake	Chem.	1977
07047700	Tyronza River near Twist	Chem.	1974-88
07047800	St Francis River at Parkin	Chem.	1973-94
07047810	St Francis River Floodway near Marked Tree	Sed.	1990-2000
07047815	Cross County Ditch near Birdeye	Sed.	1996-2000
07047882	Straight Slough near Birdeye	Chem., Sed.	1977-1984 1996-2000
07047904	Clark Corner Cut-Off near Colt	Sed.	1990-2000
07047936	L'Anguille River near Cherry Valley	Chem., Sed.	1981-84
07047950	L'Anguille River at Palestine	Chem., Sed.	1978-79, 1981-84
07047968	St. Francis River north of Helena	Chem.	1972-83
	WHITE RIVER BASIN		
07048000	West Fork White River at Greenland	Chem.	1946-54, 1956-57, 1959,1963, 1976-79 1976-81
07049693	White River at Campground E near Busch	Temp., D.O.	1991-Dec 98

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	WHITE RIVER BASIN--CONTINUED		
07049695	White River above Busch	Chem., Temp.	1969, 1972-82
07050000	White River at Beaver	Chem.	1945-46, 1948-53, 1974-83
07053700	Lake Taneycomo at Branson, Missouri	Chem.	1977-91
07054471	Bull Shoals Lake below Big Music Creek near Midway fishpens	Chem.	1978-91
07054474	Bull Shoals Lake below Big Music Creek near Midway mouth of cove	Chem.	1978-79, 1982-91
07054535	White River below Bruce Creek near Lakeview	D.O., Temp	1992-93
07055000	White River near Flippin	Chem.	1945-50, 1953,1979
07055550	Crooked Creek Tributary near Dog Patch	Chem.	1947-59, 1966-82
07055600	Crooked Creek at Pyatt	Chem.	1963,1964, 1974-78
07055630	White River at Buffalo City	Temp.	1963-64
07055700	Little Buffalo River at Jasper	Temp.	1963-70
07056507	Bear Creek West of Marshall	Chem.	1983-86
07057000	Buffalo River near Rush	Chem.	1946-54, 1958-59, 1961,1963
07057246	White River near Lone Rock	Temp.	1979-82
07057250	White River at Shipps Ferry	Temp.	1963-64
07060000	North Fork River at Norfork Dam	Temp., D.O.	1991-98
07060004	North Fork River near Salesville	Temp., D.O.	1993-94
07060010	North Fork River at Norfork	Chem., Temp.	1974-83
07060660	White River at Sylamore	Temp.	1967-82
07060700	South Sylamore Creek at Allison	Chem.	1957-63, 1987-88, 1992-93
07060839	White River above Lock and Dam 3 near St. James	Temp., D.O.	1989-91
07061000	White River at Batesville	Chem.	1983-86
07061094	White River near Salado	Chem.	1983-86
07061950	Clearwater Lake at Carter Hollow, Missouri	Chem.	1978-91
07061980	Clearwater Lake near Carter Spring on Webb Creek, Missouri	Chem.	1978-91
07068600	Little Black River at Success	Chem., Temp.	1965, 1980-86
07068867	Fourche River near Middlebrook	Chem.	1969-75
07069268	South Fork of Spring River near Moko	Chem.	1972-74
07069500	Spring River at Imboden	Chem.	1945-63, 1966-72, 1976-79
07072000	Eleven Point River near Ravenden Springs	Chem.	1945-60, 1963,1966, 1972-79
07072500	Black River at Black Rock	Chem	1946,1953, 1967-94

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	WHITE RIVER BASIN--CONTINUED		
07073000	Strawberry River near Evening Shade	Chem.	1946-57, 1979
07073500	Piney Fork at Evening Shade	Chem.	1959,1979
07074000	Strawberry River near Poughkeepsie	Chem.	1949-60, 1971,1972, 1979
07074490	Black River at Jacksonport	Chem.	1964, 1974-83
07074491	White River at Jacksonport	Chem.	1983-86
07074595	Village Creek near Walnut Ridge	Chem.	1973-74, 1976-77
07074645	Lick Pond near Alicia	Chem.	1976-77
07074660	Village Creek near Swifton	Chem.	1973-74, 1976-77
07074665	Maple Ditch near Swifton	Chem.	1976-77
07074675	Swan Pond Ditch near Tuckerman	Chem.	1976-77
07074700	Village Creek near Newport	Chem.	1960-61, 1963-64, 1973-74, 1976-77
07074849	White River above Augusta	Temp.	1967-71
07074850	White River near Augusta	Chem.	1954,1979
07075000	Middle Fork of Little Red River at Shirley	Chem.	1954,1979
07076200	Little Red River near Wilburn	Chem., Temp.	1968-83
07076500	Little Red River at Pangburn	Temp.	1967-82
07076620	Little Red River near Searcy	Temp.	1967-82
		Chem.	1984-93
07076634	Little Red River at Judsonia	Chem.	1975-83
07076640	Little Red River near West Point	Temp.	1967-72
07076750	White River at Georgetown	Temp.	1967-81
07076850	Cypress Bayou near Beebe	Chem.	1976-78
07077000	White River at DeValls Bluff	Temp.	1963-70
07077080	Little Cache River Ditch No. 1 near McDougal	Chem.	1973-75
07077380	Cache River at Egypt	Chem	1966, 1976-79, 1996-98
07077400	Cache River near Cash	Chem.	1974-83
07077555	Cache River near Cotton Plant	Chem	1987-90, Nov 1992-June 1993, Oct 1994-98
07077600	Cache River at Brasfield	Chem.	1974-83
07077750	Bayou DeView near Brasfield	Chem.	1956-57, 1974-83
07077790	Cache River at 100 Yards below Dredging	Chem.	1977-80
07077794	Cache River at Mouth near Clarendon	Chem.	1977-80
07077800	White River at Clarendon	Chem., Temp.	1948-67, 1970-86
07077950	Big Creek at Poplar Grove	Chem.	1972, 1976-79

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	WHITE RIVER BASIN--CONTINUED		
07077952	Big Creek near Poplar Grove	Chem.	1970-73
07077960	Big Creek near Watkins Corner	Chem.	1974-83
07078120	Little LaGrue Bayou near Stuttgart	Chem.	1954-55
07078285	White River at Arkansas Post Canal near Nady	Chem.	1972-83
	ARKANSAS RIVER BASIN		
07188910	Butler Creek near Sulphur Springs	Chem.	1969-93
07195686	North Flint Creek near Springtown	Chem	1995-96
07195800	Flint Creek at Springtown	Chem.	1975-79, 1996
07195850	Flint Creek north of Siloam Springs	Chem.	1972-81
07195855	Flint Creek near West Siloam Springs	Chem	1979-96
07196950	Evansville Creek at Evansville	Chem.	1958-59
07247012	Poteau River south of Bates	Chem.	1972-83
07247903	Lee Creek near Natural Dam	Chem.	1972-74
07250000	Lee Creek near Van Buren	Chem.	1951-59, 1972-79
07252000	Mulberry River near Mulberry	Chem.	1947-59, 1975-79
07252400	Arkansas River at Ozark	Chem.	1962-63, 1965-66
07252500	Sixmile Creek Subwatershed near Chismville	Chem.	1959-67
07256040	Short Mountain Creek west of Paris	Chem.	1987-93
07257000	Big Piney Creek near Dover	Chem.	1951-56
07257500	Illinois Bayou near Scottsville	Chem.	1971-72
07257995	Lake Dardanelle at Dardanelle	Chem.	1966-67
07260500	Petit Jean River at Danville	Chem.	1949-52, 1976-78
07260640	Petit Jean River near Centerville	Chem.	1974-83
07261000	Cadron Creek near Guy	Chem.	1976-78
07261235	East Fork Cadron Creek north of Conway	Chem.	1973
07261250	Cadron Creek west of Conway	Chem.	1955-56, 1973-83
07263010	Fourche LaFave River near Aplin	Chem.	1952-53
07263150	Fourche LaFave River near Bigelow	Chem.	1975-83
072632971	Yount Creek near Martindale	Chem.	2000
072632962	Bringle Creek at Martindale	Chem.	2000
072632982	Reece Creek at Little Italy	Chem.	2000
07263500	Arkansas River at Little Rock	Chem.	1946-69
07263650	Arkansas River at Pine Bluff	Chem.	1963
07263720	Arkansas River near Altheimer	Chem.	1954
07264000	Bayou Meto near Lonoke	Chem.	1968-83
07263750	Arkansas River at Lock and Dam 3 near Swan Lake	Chem.	1974-83
07264050	Bayou Two Prairie near Furlow (formerly published as "near Cabot")	Chem.	1975-83
07264500	Bayou Meto near Stuttgart	Chem.	1950-52, 1973-74
07265280	Arkansas River at Pendleton	Chem.	1963
	RED RIVER BASIN		
07339500	Rolling Fork near DeQueen	Temp.	1976-79

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	RED RIVER BASIN--CONTINUED		
07339850	Rolling Fork near Horatio	Chem.	1974-83
07340500	Cossatot River near DeQueen	Temp.	1976-79
07340520	Cossatot River near Lockesburg	Chem.	1974-83
07341000	Saline River near Dierks	Temp.	1975-79
07341280	Millwood Lake on Mine Creek near Okay	Chem.	1983-93
07341500	Red River at Fulton	Chem., Temp.	1946-47, 1952-61, 1978-79
07342000	Red River at Garland	Chem.	1976
07344290	Days Creek south of Texarkana	Chem.	1973-74
07344340	Sulphur River near Fort Lynn	Chem.	1975-78
07348615	Bayou Dorcheat near Bussey	Chem.	1973-74
07348680	Crooked Creek at Arkansas-Louisiana State Line	Chem.	1973-74
07349445	Bodcau Creek near Taylor	Chem.	1952, 1973-74
07349453	Wheeler Creek near Arkana	Chem.	1973-74
07349455	Bear Creek near Arkana	Chem.	1973
07349457	Dooley Creek near Arkansas-Louisiana State Line	Chem.	1973
07356150	Ouachita River near Washita	Chem.	1970-72
07356320	Irons Fork Creek near Fannie	Chem.	1970-78
07356500	South Fork Ouachita River at Mount Ida	Chem.	1970-72, 1978
07357500	Lake Ouachita near Hot Springs	Chem.	1970-78
07357501	Ouachita River at Blakely Mountain Dam near Hot Springs	Chem.	1970-83
07357503	Ouachita River at Mountain Pine	Temp.	1979-82
07358501	Ouachita River at Carpenter Dam near Hot Springs	Chem.	1974-86
07359900	DeGray Lake near Arkadelphia	Chem.	1950-52, 1976-78
07359910	Caddo River at DeGray Regulating Dam near Arkadelphia	Chem.	1976-78
07360000	Ouachita River at Arkadelphia	Chem.	1949-70
07360162	Ouachita River near Sparkman	Chem.	1974-83
07360182	Brushy Creek near Ouachita	Chem.	1978-81
07360250	Little Missouri River near Newhope	Chem.	1970-78
07360350	Self Creek near Daisy	Chem.	1970-72, 1976-78
07360500	Lake Greeson near Murfreesboro	Chem.	1970-72, 1976-78
07361022	Prairie Creek at Murfreesboro	Chem.	1984-93
07361025	Prairie Creek near Murfreesboro	Chem.	1984-93
07361500	Antoine River at Antoine	Chem.	1976-79
07363080	Saline River near Tull	Chem.	1974-75
07363400	Hurricane Creek below Sheridan	Chem.	1950-55
07363500	Saline River near Rye	Chem.	1947-55, 1958-60, 1968-71, 1976-80
07364020	L'Aigle Creek at Hermitage	Chem.	1980
07364060	Bayou Lapile at Strong	Chem.	1952-55
07364080	Ouachita River near Felsenthal	Chem., Temp.	1950-67, 1971-81

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station number	Station name	Type of record	Period of record
	RED RIVER BASIN--CONTINUED		
07364088	Coffee Creek near Crossett	Chem.	1973-83
07365900	Three Creeks near Three Creeks	Chem.	1953-55, 1973-74
07366105	Little Cornie Bayou east of Junction City	Chem.	1973-74
07367666	Big Bayou near Jerome	Chem.	1974-81
07367695	LaFourche Bayou near Wilmot	Chem.	1973-74

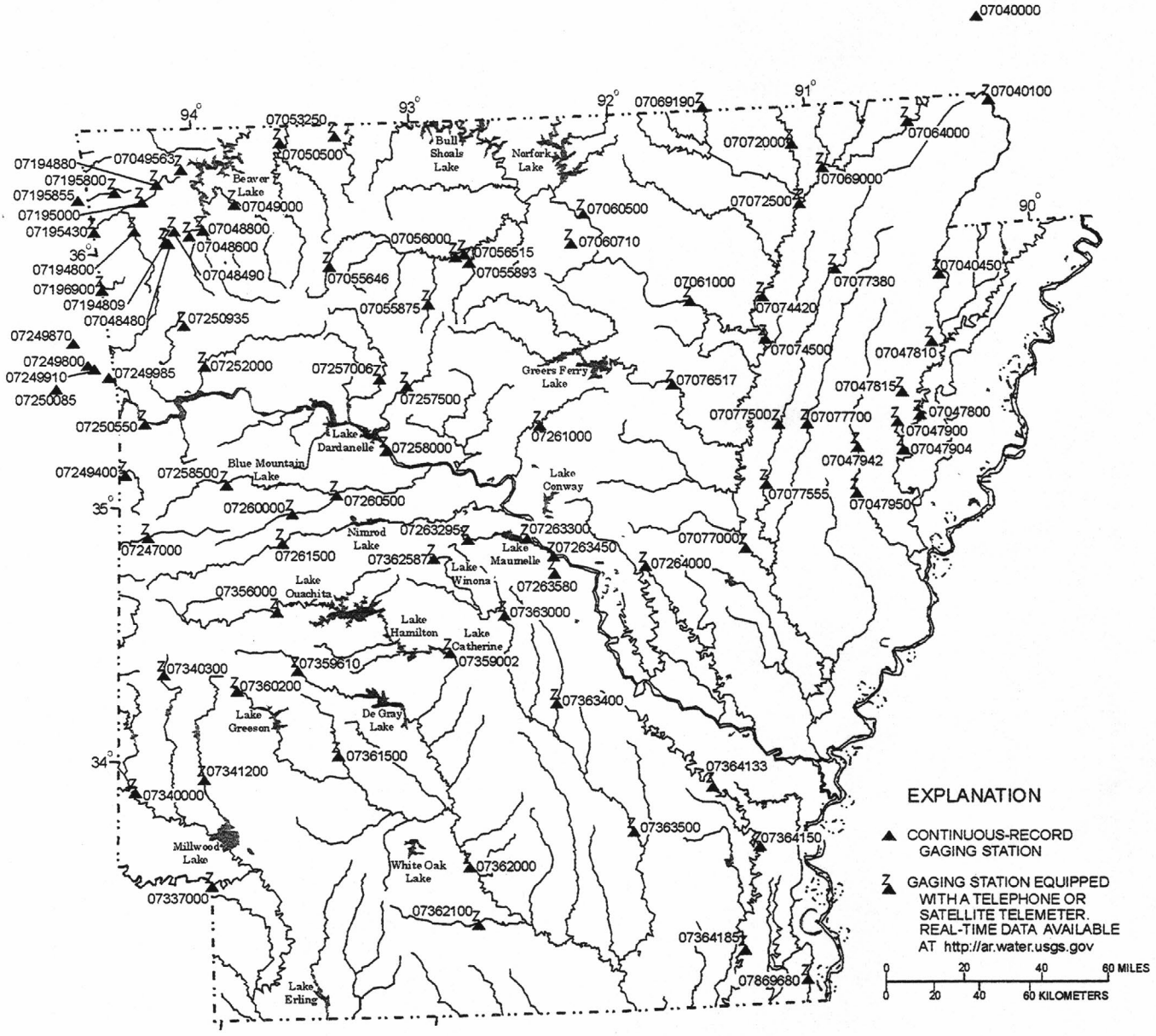


Figure 2.--Locations of continuous-record gaging stations in Arkansas.

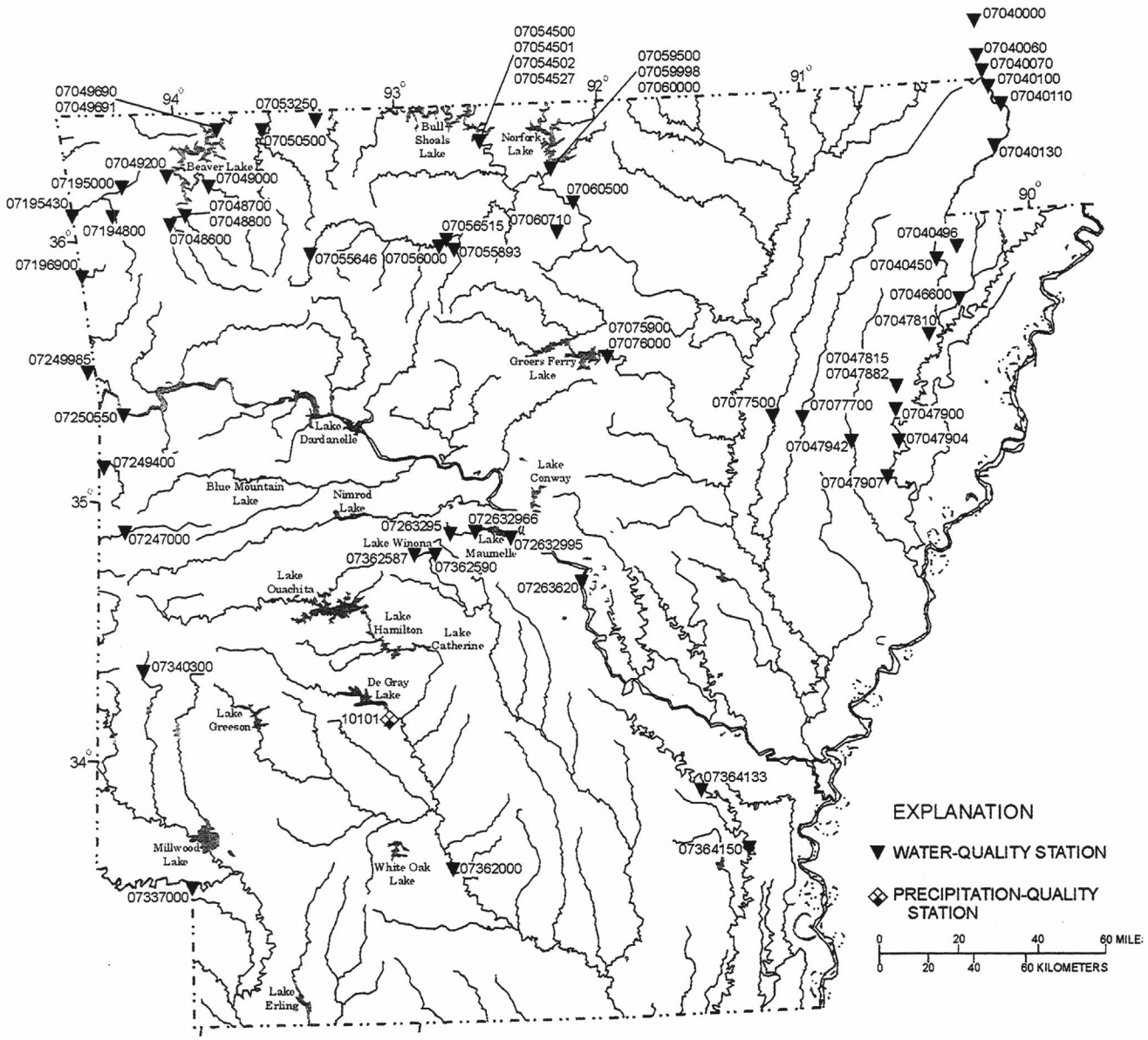


Figure 3.--Locations of water-quality stations in Arkansas.

07040000 ST. FRANCIS RIVER AT FISK, MISSOURI

LOCATION.--Lat 36°46'50", long 90°12'08", in NW1/4SW1/4 sec.28, T.24 N., R.8 E., Butler-Stoddard County line, Hydrologic Unit 08020203, at bridge on State Highway 51, at Fisk, Missouri.

DRAINAGE AREA.--1,370 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1941 and October 1997 to current year. Daily stages January 1917 to February 1922 and August 1992 to date, daily discharges January 1984 to date, and results of discharge measurements March 1935 to September 1997 in reports of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 307.46 ft above sea level.

REMARKS.--Water-discharge records good except estimated daily discharges which are poor. Some regulation by Wapapello Lake, 36.3 mi upstream, since Aug. 1, 1941, capacity 625,000 acre-ft. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1917, 28.0 ft, from floodmark, Apr. 18, 1927.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	e80	903	e470	1640	5370	616	262	476	294	2450	e200
2	e90	e75	856	e550	2100	4840	543	280	468	300	2450	e150
3	e90	e70	694	e1000	2170	4230	511	281	464	303	2260	e130
4	e90	e75	452	e800	2160	3960	510	278	462	305	2030	e130
5	e100	e85	290	e500	2130	3690	523	278	456	304	1780	e120
6	e150	320	261	368	2040	3400	892	282	453	305	1500	e100
7	e120	333	259	323	1930	3130	1230	281	448	302	1350	e110
8	e100	497	259	316	1740	2790	1450	280	444	291	1240	e220
9	e90	603	258	315	1510	2500	1520	382	442	e210	1110	267
10	e90	599	259	313	1370	2010	1680	442	437	e100	1000	271
11	e90	594	263	380	1360	1780	1700	444	432	e70	886	e290
12	e90	589	683	425	1590	1570	1350	441	429	e70	734	e250
13	e80	439	1240	429	2160	1510	1160	436	421	e90	556	e230
14	e80	335	1370	442	2380	1280	1040	432	330	e220	561	e210
15	e80	320	1580	608	2790	1150	939	339	283	285	571	e200
16	e80	319	1850	710	3000	1080	891	282	276	296	486	e200
17	e120	316	1900	1360	3370	1030	782	216	275	283	355	e170
18	361	318	1850	1610	3470	998	674	157	272	283	267	e130
19	417	320	e1700	1320	3540	993	552	157	216	282	e150	e110
20	425	308	e1500	1130	3500	989	419	156	209	282	e120	e100
21	425	e160	e1200	1010	3310	986	376	154	e200	283	e170	e90
22	384	e160	e1000	981	2940	983	373	194	e190	297	e160	e90
23	337	317	e850	969	2740	982	372	388	214	310	e140	e210
24	e160	329	e750	886	2680	977	374	562	273	311	e130	e220
25	e120	357	e670	853	2990	975	454	611	255	323	e120	e120
26	e100	491	e620	718	3410	968	502	615	e190	334	e120	e100
27	e90	608	e600	596	4850	819	422	558	e200	427	e110	e90
28	e90	791	e550	579	5370	660	324	487	231	364	e110	e80
29	e85	967	e520	586	---	619	247	476	e220	322	e100	e80
30	e85	1000	e500	628	---	621	238	475	223	1150	e100	e70
31	e80	---	e480	1010	---	620	---	477	---	2240	e250	---
TOTAL	4789	11775	26167	22185	74240	57510	22664	11103	9889	11236	23366	4738
MEAN	154	392	844	716	2651	1855	755	358	330	362	754	158
MAX	425	1000	1900	1610	5370	5370	1700	615	476	2240	2450	290
MIN	80	70	258	313	1360	619	238	154	190	70	100	70
AC-FT	9500	23360	51900	44000	147300	114100	44950	22020	19610	22290	46350	9400

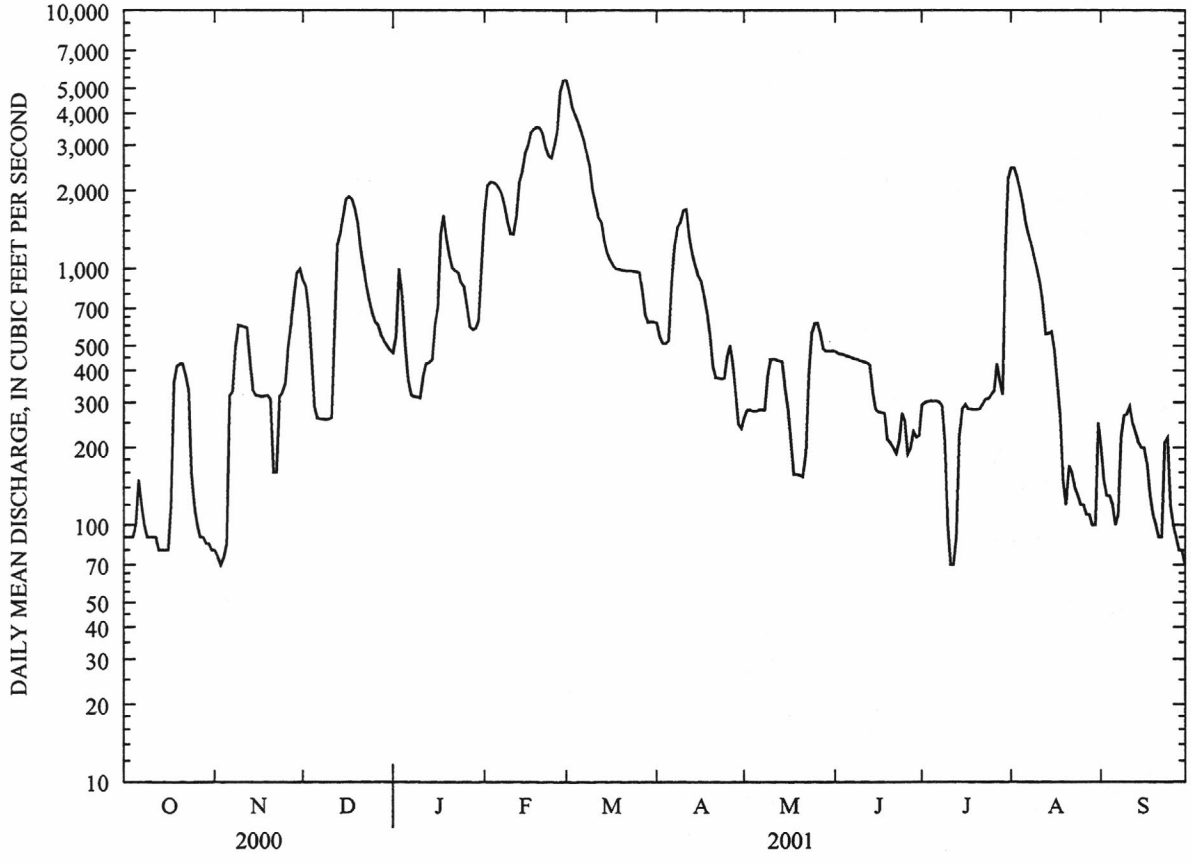
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928-41, 1998-01, BY WATER YEAR (WY)

MEAN	332	576	1190	2393	1909	2279	2535	1894	1337	544	413	238
MAX	1115	1587	3751	7905	4817	5506	5107	7016	8572	1780	2204	668
(WY)	1937	1937	1928	1937	1999	1935	1999	1933	1928	1928	1998	1934
MIN	125	205	243	272	319	328	326	195	148	112	101	58.8
(WY)	1941	2000	1939	1931	1934	1941	1941	2000	1936	1941	1936	1999

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

SUMMARY STATISTICS	FOR 2001 WATER YEAR				WATER YEARS 1928-41, 1998-01	
ANNUAL TOTAL	264661		279662			
ANNUAL MEAN	723		766		1300	
HIGHEST ANNUAL MEAN					2240	1929
LOWEST ANNUAL MEAN					437	1941
HIGHEST DAILY MEAN	4600	Mar 1	5370	Feb 28	36000	May 16 1933
LOWEST DAILY MEAN	30	Sep 29	70	Nov 3	8.0	Jul 25 1940
ANNUAL SEVEN-DAY MINIMUM	51	Sep 15	79	Oct 29	16	Jul 20 1940
MAXIMUM PEAK FLOW			5420	Mar 1	49900	Mar 13 1935
MAXIMUM PEAK STAGE			13.27	Mar 1	26.71	Mar 13 1935
INSTANTANEOUS LOW FLOW					5.0	Jul 26 1940
ANNUAL RUNOFF (AC-FT)	525000		554700		942000	
10 PERCENT EXCEEDS	1850		1960		3170	
50 PERCENT EXCEEDS	375		427		505	
90 PERCENT EXCEEDS	85		100		142	

[e]Estimated



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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
OCT 10...	1330	82913	80513	91	.34	767	8.9	86	7.5
NOV 28...	1600	82913	80513	808	.15	760	9.7	81	7.2
DEC 11...	1415	82913	80513	278	.24	749	10.9	91	7.7
JAN 09...	0740	82913	80513	325	.76	768	7.8	58	7.2
FEB 06...	0800	82913	80513	2060	.18	764	11.0	86	7.6
MAR 19...	1320	82913	80513	1010	.09	769	10.0	89	6.8
APR 17...	0630	82913	80513	756	.18	764	5.6	59	7.9
MAY 01...	0715	82913	80513	267	.21	760	6.3	71	8.0
JUN 12...	1310	82913	80513	402	.18	754	7.8	97	7.2
JUL 10...	1430	82913	80513	98	.24	754	7.5	102	8.7
AUG 07...	1500	82913	80513	1400	.12	760	6.3	84	7.6
SEP 17...	1300	82913	80513	170	.15	758	7.6	90	7.3

DATE	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 10...	221	14.0	98	100	--	--	36	8.9
NOV 28...	232	7.5	95	95	97	100	56	122
DEC 11...	238	6.7	100	--	--	--	26	20
JAN 09...	284	3.4	98	98	100	--	31	27
FEB 06...	230	5.2	85	85	95	100	66	367
MAR 19...	172	10.7	98	99	100	--	47	128
APR 17...	175	17.8	96	96	100	--	53	108
MAY 01...	188	20.9	100	--	--	--	53	38
JUN 12...	218	25.9	100	--	--	--	44	48
JUL 10...	235	31.2	99	99	100	--	61	16
AUG 07...	203	30.1	97	97	99	100	102	386
SEP 17...	213	23.7	97	97	97	100	57	26

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

DATE	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT									
10...	8	25	92	99	100	--	--	--	--
NOV									
28...	64	87	99	100	--	--	--	--	--
DEC									
11...	10	51	97	100	--	--	--	--	--
JAN									
09...	82	97	99	100	--	--	--	--	--
FEB									
06...	1	1	45	94	99	99	100	--	--
MAR									
19...	2	29	99	100	--	--	--	--	--
APR									
17...	19	56	99	100	--	--	--	--	--
MAY									
01...	1	2	18	37	42	42	46	60	100
JUN									
12...	2	3	59	98	100	--	--	--	--
JUL									
10...	31	55	99	100	--	--	--	--	--
AUG									
07...	12	48	99	100	--	--	--	--	--
SEP									
17...	8	17	94	98	100	--	--	--	--

07040060 St. FRANCIS RIVER NEAR GLENNONVILLE, MISSOURI

LOCATION.--Lat 36°34'22", long 90°11'06", in NE1/4NW1/4 sec.10, T.22 N., R.8 E., Butler-Dunklin County line, Hydrologic Unit 08020203, at bridge on Missouri State Highway 53, 1.7 mi southwest of Glennonville, Missouri.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV										
28...	1420	82913	80513	733	8.3	100	--	--	--	67
DEC										
12...	0650	82913	80513	286	2.2	99	99	100	--	55
JAN										
08...	1340	82913	80513	506	3.1	99	99	100	--	64
FEB										
05...	1300	82913	80513	2430	6.0	78	92	97	100	134
MAR										
20...	0610	82913	80513	1280	9.9	84	97	100	--	168
APR										
16...	1430	82913	80513	1330	20.0	98	98	99	100	108
30...	1320	82913	80513	304	24.0	99	99	100	--	43
JUN										
13...	0630	82913	80513	459	27.1	99	99	99	100	74

DATE	SEDIMENT DISCHARGE SUSPENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV						
28...	133	50	80	99	99	100
DEC						
12..	42	37	50	89	100	--
JAN						
08...	87	1	2	76	99	100
FEB						
05...	879	31	67	99	99	100
MAR						
20...	581	61	83	97	97	100
APR						
16...	388	20	35	54	92	100
30...	35	22	74	98	99	100
JUN						
13...	92	7	27	92	100	--

07040070 WILHELMINA CUTOFF NEAR CAMPBELL, MISSOURI

LOCATION.--Lat 36°30'53", long 90°09'30", in SW1/4SW1/4 sec.25, T.22 N., R.8 E., Dunklin County, Hydrologic Unit 08020203, at bridge on county road 4.7 mi northwest of Campbell, Missouri, off Missouri State Highway 53.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV										
28...	1220	82913	80513	664	8.0	97	97	100	--	75
DEC										
11...	1210	82913	80513	299	8.1	100	--	--	--	29
JAN										
08...	1215	82913	80513	544	3.4	98	98	100	--	87
FEB										
05...	1140	82913	80513	2130	5.2	73	90	97	100	159
MAR										
19...	1120	82913	80513	1330	10.6	88	91	95	100	67
APR										
16...	1305	82913	80513	1200	19.6	95	96	99	100	159
30...	1220	82913	80513	308	23.7	100	--	--	--	46
JUN										
12...	1150	82913	80513	446	28.7	98	98	100	--	68

DATE	SEDIMENT DISCHARGE SUSPENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
NOV						
28...	134	33	68	99	100	--
DEC						
11...	23	7	8	74	100	--
JAN						
08...	128	1	1	65	99	100
FEB						
05...	914	1	2	59	97	100
MAR						
19...	241	1	4	73	99	100
APR						
16...	515	0	0	61	98	100
30...	38	0	1	70	99	100
JUN						
12...	82	1	2	52	97	100

07040100 ST. FRANCIS RIVER AT ST. FRANCIS

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.

DRAINAGE AREA.--1,772 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977 and October 1997 to current year in reports of Geological Survey. January 1930 to December 1946 in files of U. S. Army 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 above sea level. Prior to Apr. 1, 1946, nonrecording gage.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor. Some regulation by Wappapello Lake (Missouri), 80 mi upstream, since Aug. 1, 1941, capacity 625,000 acre-ft. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	76	926	e600	1290	5080	726	312	535	279	2230	491
2	91	73	839	e700	1810	5140	664	321	556	368	2350	356
3	92	74	788	e1200	2100	4910	598	333	504	337	2330	198
4	90	74	633	e1050	2160	5040	1450	330	501	359	2180	151
5	93	73	436	e800	2140	5400	1620	340	505	353	1970	155
6	107	128	296	749	2080	4650	926	348	528	329	1740	143
7	165	515	263	640	1990	3950	1200	366	536	316	1540	120
8	115	563	261	571	1890	3510	1490	367	510	315	1450	135
9	85	2300	255	510	1730	3150	1660	352	492	307	1370	334
10	72	1550	258	434	1620	2780	1730	433	487	227	1200	857
11	70	799	261	409	1460	2350	1860	555	490	204	1210	472
12	69	620	273	488	1480	2120	1790	537	495	206	1200	347
13	68	632	781	610	1850	2400	1480	503	509	201	1270	292
14	67	550	1270	1110	2820	2270	1310	486	498	179	973	265
15	67	338	1410	1450	4800	1740	1320	485	489	189	755	251
16	66	276	1750	1030	5490	1940	1310	420	473	280	646	241
17	68	254	2170	1040	5680	1670	1080	355	380	319	522	235
18	83	241	e2250	1560	4700	1360	933	306	344	319	396	192
19	225	236	e2050	1670	4070	1260	796	261	326	860	286	141
20	289	233	e1900	1380	3800	1230	665	305	287	1690	189	119
21	300	222	e1700	1150	3640	1200	537	286	276	789	171	110
22	304	186	e1500	1040	4210	1170	481	308	315	465	223	100
23	272	184	e1200	1010	4410	1150	468	333	237	406	204	102
24	231	251	e1000	997	3540	1120	472	491	261	334	183	239
25	174	1960	e900	943	5190	1070	459	617	322	298	173	248
26	106	1610	e800	881	5390	1040	515	636	309	295	166	145
27	84	719	e720	735	4760	993	549	624	251	451	166	115
28	77	641	e700	640	4890	809	479	568	229	420	163	103
29	75	793	e650	667	---	671	391	502	266	533	160	94
30	77	924	e620	1160	---	672	327	504	239	592	163	90
31	78	---	e600	1030	---	754	---	517	---	1570	154	---
TOTAL	3853	17095	29460	28254	90990	72599	29286	13101	12150	13790	27733	6841
MEAN	124	570	950	911	3250	2342	976	423	405	445	895	228
MAX	304	2300	2250	1670	5680	5400	1860	636	556	1690	2350	857
MIN	66	73	255	409	1290	671	327	261	229	179	154	90
AC-FT	7640	33910	58430	56040	180500	144000	58090	25990	24100	27350	55010	13570

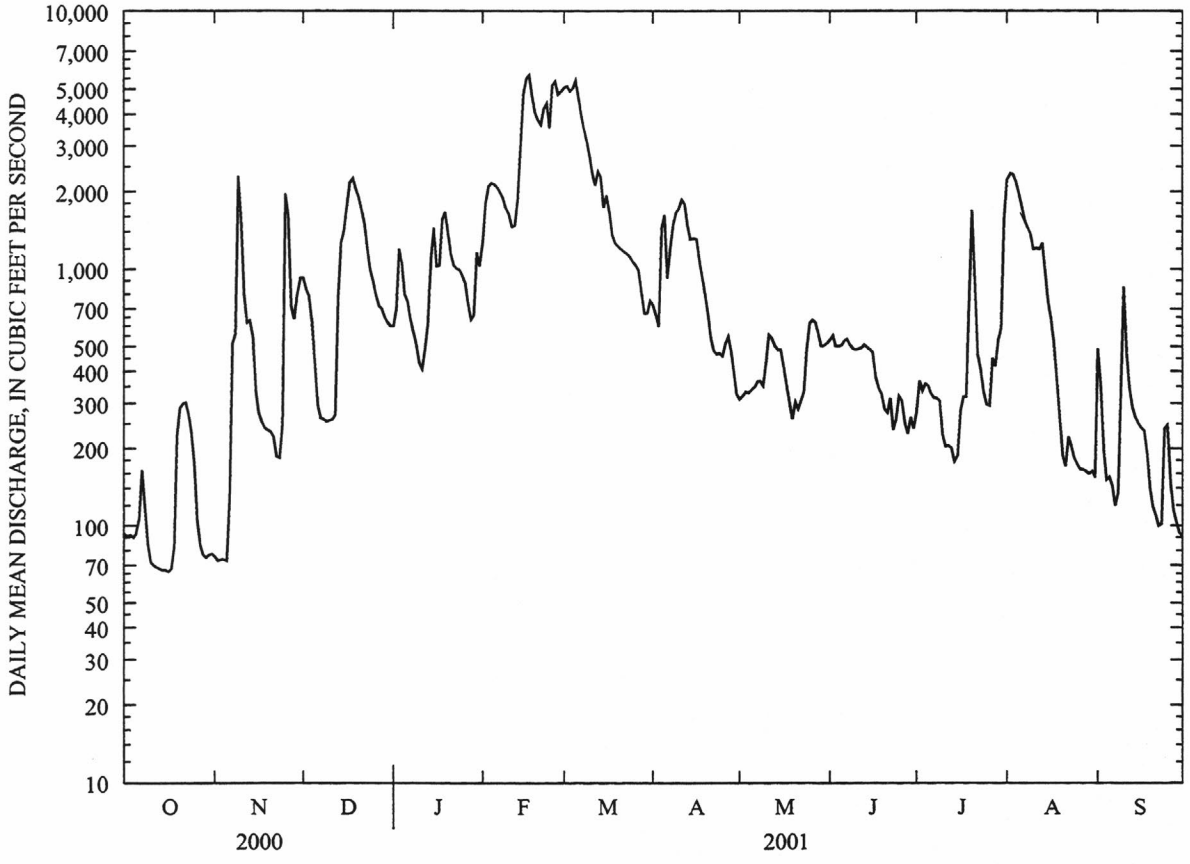
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-77, 1998-01, BY WATER YEAR (WY)

MEAN	544	1061	1820	3035	3148	3799	4197	3352	1914	1102	608	496
MAX	3754	5428	9014	13660	12300	9556	14680	11680	9294	6467	4514	1929
(WY)	1950	1973	1974	1950	1949	1935	1945	1945	1957	1945	1945	1951
MIN	91.5	77.7	254	306	344	384	473	308	211	194	121	95.9
(WY)	1957	1954	1954	1956	1963	1941	1941	1987	1936	1964	1965	1955

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931-77, 1998-01	
ANNUAL TOTAL	380695		345152			
ANNUAL MEAN	1040		946		2069	
HIGHEST ANNUAL MEAN					4886	1973
LOWEST ANNUAL MEAN					548	1941
HIGHEST DAILY MEAN	10200	Jan 4	5680	Feb 17	37900	Mar 16 1935
LOWEST DAILY MEAN	66	Oct 16	66	Oct 16	55	Sep 20 1954
ANNUAL SEVEN-DAY MINIMUM	68	Oct 11	68	Oct 11	63	Nov 15 1953
MAXIMUM PEAK FLOW			5920	Feb 17	39200	Mar 15 1935
MAXIMUM PEAK STAGE			20.40	Feb 17	28.20	Mar 15 1935
INSTANTANEOUS LOW FLOW			65	Oct 14-16	[a]55	Sep 20 1954
ANNUAL RUNOFF (AC-FT)	755100		684600		1499000	
10 PERCENT EXCEEDS	2800		2150		5590	
50 PERCENT EXCEEDS	554		510		877	
90 PERCENT EXCEEDS	124		120		180	

[a]Minimum instantaneous low flow for ther period 1978-97, 48 ft^3/s Oct. 3, 1983
[e]Estimated



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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
10...	1120	82913	80513	69	769	10.0	92	7.3	250	11.8
NOV										
29...	0745	82913	80513	769	764	9.9	81	7.0	231	6.6
DEC										
12...	0750	82913	80513	265	770	10.6	76	7.4	247	2.0
JAN										
09...	0935	82913	80513	541	770	8.9	63	7.3	252	1.3
FEB										
06...	1015	82913	80513	2120	760	8.6	68	7.5	228	5.2
MAR										
20...	0810	82913	80513	1170	769	8.1	71	6.8	164	9.9
APR										
17...	0800	82913	80513	1140	768	7.4	78	7.9	178	18.4
MAY										
01...	0855	82913	80513	317	760	7.5	85	8.0	206	21.6
JUN										
13...	0825	82913	80513	488	755	7.3	94	7.6	358	27.5
JUL										
11...	0800	82913	80513	215	755	5.5	73	8.7	416	30.1
AUG										
08...	0715	82913	80513	1510	760	5.5	72	7.7	233	29.2
SEP										
18...	0830	82913	80513	226	757	6.6	78	7.2	227	23.2

DATE	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)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	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)
OCT										
10...	94	94	98	100	55	10	25	72	96	98
NOV										
29...	99	99	99	100	81	168	5	40	98	99
DEC										
12...	99	99	99	100	37	26	1	2	82	100
JAN										
09...	99	99	99	100	67	98	76	93	99	100
FEB										
06...	92	97	100	--	183	1050	1	1	51	90
MAR										
20...	98	100	--	--	54	171	27	60	98	99
APR										
17...	87	99	100	--	297	914	31	64	98	100
MAY										
01...	99	100	--	--	64	55	2	5	94	100
JUN										
13...	99	99	100	--	100	132	9	41	95	100
JUL										
11...	97	97	100	--	104	60	12	29	76	94
AUG										
08...	96	96	100	--	163	665	26	70	99	100
SEP										
18...	98	98	100	--	55	34	6	23	85	96

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)
OCT				
10...	99	99	99	100
NOV				
29...	100	--	--	--
FEB				
06...	100	--	--	--
MAR				
20...	100	--	--	--
JUL				
11...	100	--	--	--
SEP				
18...	100	--	--	--

07040110 ST. FRANCIS RIVER NEAR PIGGOTT

LOCATION.--Lat 36°23'50", long 90°04'40", in SE1/4SW1/4 sec.3, T.20 N., R.9 E., Clay County, Hydrologic Unit 08020203, at bridge on State Highway 1, 6.0 mi east of Piggott.

DRAINAGE AREA.--1,776 mi^2.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT										
10...	0945	82913	80513	8.5	12.5	97	97	100	--	66
NOV										
28...	1045	82913	80513	637	7.6	98	98	99	100	136
DEC										
12...	0920	82913	80513	291	5.1	99	100	--	--	39
JAN										
08...	1050	80513	80513	--	.5	--	--	--	--	--
FEB										
05...	1020	82913	80513	2190	5.2	92	96	99	100	146
MAR										
20...	0940	82913	80513	1250	10.5	97	97	99	100	69
APR										
16...	1030	82913	80513	1360	19.4	100	--	--	--	439
30...	1045	82913	80513	338	23.4	95	95	99	100	71
JUN										
12...	1045	82913	80513	421	29.2	99	99	99	100	82
JUL										
10...	1030	82913	80513	251	32.1	98	98	98	100	114
AUG										
07...	1130	82913	80513	1590	30.1	98	98	99	100	146
SEP										
17...	0930	82913	80513	231	23.4	99	99	100	--	79

DATE	SEDIMENT, SUSPENDED DISCHARGE (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)
OCT									
10...	1.5	20	21	78	98	100	--	--	--
NOV									
28...	234	1	1	77	99	100	--	--	--
DEC									
12...	31	1	2	69	96	98	--	99	100
FEB									
05...	863	0	0	72	96	100	--	--	--
MAR									
20...	233	2	8	91	98	100	--	--	--
APR									
16...	1610	1	2	70	94	100	--	--	--
30...	65	4	6	81	98	100	--	--	--
JUN									
12...	93	4	6	74	93	98	100	--	--
JUL									
10...	77	16	20	76	95	100	--	--	--
AUG									
07...	627	1	3	87	99	100	--	--	--
SEP									
17...	49	2	3	79	84	98	100	--	--

07040130 ST. FRANCIS RIVER AT HOLLY ISLAND

LOCATION.--Lat 36°14'11", long 90°07'52", in SW1/4NE1/4 sec.32, T.19 N., R.9 E., Clay County, Hydrologic Unit 08020203, at bridge on State Highway 90, at Holly Island.

DRAINAGE AREA.--1,788 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	TEMPERATURE WATER (DEG C) (00010)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED, SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT										
11...	0800	82913	80513	13.5	96	100	--	--	--	61
NOV										
29...	0945	82913	80513	7.8	100	--	--	--	--	153
DEC										
12...	1050	82913	80513	5.4	99	99	100	--	--	26
JAN										
09...	1110	80513	80513	.5	--	--	--	--	--	--
FEB										
06...	1130	82913	80513	5.3	96	96	96	100	--	80
06...	1200	82913	80513	5.3	99	99	99	100	--	41
MAR										
20...	1100	82913	80513	10.6	93	93	93	93	100	57
20...	1130	82913	80513	10.6	99	99	99	100	--	70
APR										
17...	1135	82913	80513	19.5	100	--	--	--	--	320
17...	1205	82913	80513	19.5	99	99	99	100	--	95
MAY										
01...	1005	82913	80513	20.5	97	98	99	100	--	96
JUN										
13...	0920	82913	80513	27.5	98	98	98	100	--	86
JUL										
11...	1125	82913	80513	31.8	98	98	98	100	--	90
AUG										
07...	1030	82913	80513	30.1	69	79	98	100	--	195

DATE	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	SAMPLE SOURCE (72005)
OCT									
11...	38	53	82	98	100	--	--	--	--
NOV									
29...	80	89	96	97	100	--	--	--	--
DEC									
12...	2	11	78	99	100	--	--	--	--
JAN									
09...	--	--	--	--	--	--	--	--	--
FEB									
06...	10	24	70	92	99	--	100	--	67.00
06...	22	37	82	98	99	100	--	--	68.00
MAR									
20...	17	41	98	100	--	--	--	--	67.00
20...	4	25	96	100	--	--	--	--	68.00
APR									
17...	18	37	76	93	99	--	100	--	67.00
17...	18	34	84	98	100	--	--	--	68.00
MAY									
01...	15	41	83	95	97	--	97	100	--
JUN									
13...	62	75	90	96	97	--	99	100	--
JUL									
11...	18	38	82	97	98	100	--	--	--
AUG									
07...	54	86	97	97	100	--	--	--	--

07040450 ST. FRANCIS RIVER AT LAKE CITY

LOCATION.--Lat 35°49'16", long 90°25'56", in SE1/4 sec.22, T.14 N., R.6 E., Craighead County, Hydrologic Unit 08020203, at bridge on State Highway 18 at Lake City, and at mile 173.6.

DRAINAGE AREA.--2,374 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1977, October to November 1997, September 1999 to current year. 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 November 1997 and September 1999 to date in reports of Corps of Engineers. Gage-height records 1916 to November 1997 and September 1999 to date in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 217.69 ft above sea level. Prior to Sept. 1, 1948, non-recording gage at railroad bridge 0.1 mi downstream at present datum.

REMARKS.--Water-discharge records good. Some regulation by Wappapello Lake (Missouri) 135 mi upstream since Apr. 1, 1941, capacity, 625,000 acre-feet.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1916, 14.4 ft April 3, 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	188	835	866	1580	6420	2060	712	647	478	531	228
2	159	180	829	823	1250	6590	1860	702	616	437	503	227
3	141	173	814	809	1050	7000	1690	688	598	396	532	226
4	128	169	793	797	987	9240	1520	665	635	358	600	269
5	120	160	775	792	1000	11200	1400	636	656	341	652	312
6	150	163	768	796	1090	10800	1570	615	636	364	704	296
7	209	249	765	793	1330	9680	1800	597	610	377	776	242
8	177	370	757	791	1600	8610	1780	613	624	369	889	216
9	144	663	740	781	1880	8010	1780	604	631	360	1070	213
10	132	781	702	764	2160	7530	1800	577	600	348	1350	213
11	132	729	645	765	2320	6900	1740	552	564	349	1550	197
12	134	665	581	781	2390	6700	1680	539	536	347	1640	232
13	130	651	554	788	2460	6350	1710	535	516	340	1640	319
14	121	692	580	807	3160	5610	1830	534	499	323	1620	374
15	114	689	596	835	9180	5160	1970	547	536	294	1630	367
16	108	674	2040	845	18900	5330	2060	551	615	269	1500	324
17	105	648	2760	850	21800	4770	2070	548	605	258	1270	280
18	106	609	2570	908	16700	4210	1980	541	572	300	1060	228
19	105	555	e2120	1210	12800	3760	1820	549	527	405	922	268
20	105	495	e1760	1360	10600	3340	1670	557	488	439	813	308
21	106	440	1660	1390	9370	2990	1540	987	451	418	692	281
22	113	403	1700	1370	8700	2720	1380	1110	430	408	557	229
23	135	375	1770	1410	7890	2450	1210	879	421	450	430	178
24	160	403	1870	1490	6980	2230	1080	729	407	498	344	142
25	184	1440	1850	1550	7530	2030	980	615	397	519	311	155
26	208	1690	1640	1520	7850	1870	892	543	394	503	290	188
27	222	1620	1500	1430	7630	1760	827	508	371	472	279	181
28	226	1260	1290	1310	6930	1680	783	517	406	493	268	177
29	218	967	1090	1310	---	1650	748	618	432	517	252	159
30	200	862	962	1750	---	1850	727	645	472	508	237	127
31	190	---	891	1870	---	2100	---	656	---	550	226	---
TOTAL	4657	18963	38207	33561	177117	160540	45957	19669	15892	12488	25138	7156
MEAN	150	632	1232	1083	6326	5179	1532	634	530	403	811	239
MAX	226	1690	2760	1870	21800	11200	2070	1110	656	550	1640	374
MIN	105	160	554	764	987	1650	727	508	371	258	226	127
AC-FT	9240	37610	75780	66570	351300	318400	91160	39010	31520	24770	49860	14190

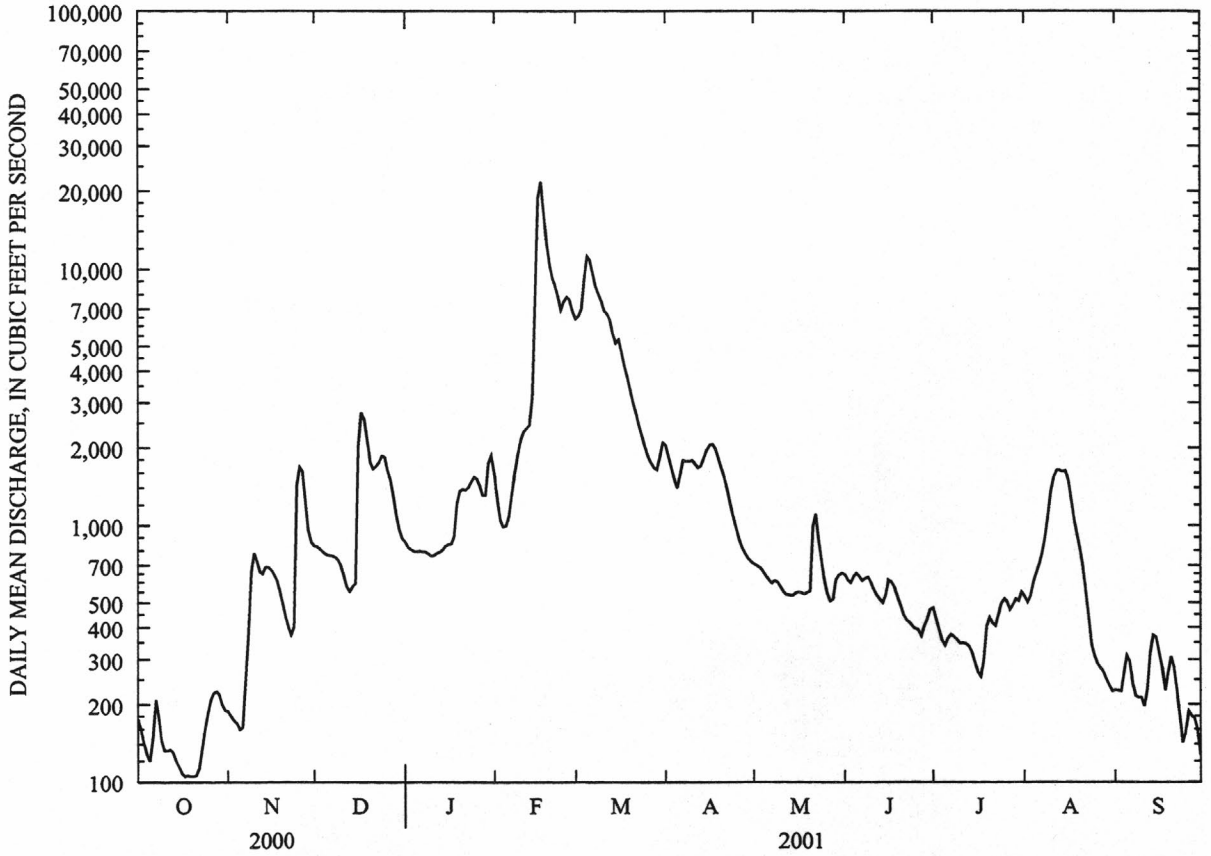
07040450 ST. FRANCIS RIVER AT LAKE CITY--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-77, 1999-01, BY WATER YEAR (WY)

MEAN	741	1482	2362	4233	4597	5224	5555	4586	2703	1587	884	716
MAX	5125	9582	11010	18200	17270	10710	18160	14440	13370	7720	5303	2494
(WY)	1950	1958	1952	1950	1950	1975	1945	1973	1945	1957	1945	1965
MIN	111	114	227	496	553	836	831	634	202	187	109	126
(WY)	1954	1954	1954	1944	1977	1941	1941	2001	1932	1934	1936	1941

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931-77, 1999-01	
ANNUAL TOTAL	569298		559345			
ANNUAL MEAN	1555		1532		2911	
HIGHEST ANNUAL MEAN					6937	1973
LOWEST ANNUAL MEAN					782	1941
HIGHEST DAILY MEAN	11500	Jun 1	21800	Feb 17	36700	Jan 22 1937
LOWEST DAILY MEAN	105	Oct 17	105	Oct 17	39	Oct 7 1999
ANNUAL SEVEN-DAY MINIMUM	107	Oct 16	107	Oct 16	41	Oct 2 1999
MAXIMUM PEAK FLOW			22900	Feb 17	[a]36700	Jan 22-24 1937
MAXIMUM PEAK STAGE			9.87	Feb 17	[b]13.30	Jan 22-24 1937
INSTANTANEOUS LOW FLOW			105	Oct 17-20	37	Oct 8 1999
ANNUAL RUNOFF (AC-FT)	1129000		1109000		2109000	
10 PERCENT EXCEEDS	4360		2850		7450	
50 PERCENT EXCEEDS	768		663		1380	
90 PERCENT EXCEEDS	183		186		276	

[a]Maximum discharge for period of record, 42,700 ft^3/s Apr. 3, 1979
[b]Maximum gage height for period of record, 14.37 ft, Apr. 3, 1979
[e]Estimated



07040450 ST. FRANCIS RIVER AT LAKE CITY--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
11...	0955	82913	80513	140	.27	770	8.4	79	8.0	305	13.0
NOV											
29...	1135	82913	80513	1030	.09	767	7.6	64	6.9	163	8.1
DEC											
12...	1250	82913	80513	549	.24	770	10.4	78	7.4	256	3.9
JAN											
09...	1255	82913	80513	813	.18	772	12.0	84	7.2	286	1.3
FEB											
06...	1440	82913	80513	1080	.12	767	9.6	78	7.4	229	6.7
MAR											
20...	1330	82913	80513	1660	.09	769	9.5	87	6.7	162	12.0
20...	1405	82913	80513	1840	.15	769	8.2	75	6.7	168	12.0
APR											
17...	1355	82913	80513	1370	.18	770	7.0	71	7.8	229	16.4
MAY											
01...	1230	82913	80513	743	.12	762	6.3	73	7.9	273	22.8
JUN											
13...	1150	82913	80513	514	.12	757	6.4	82	7.3	268	27.5
JUL											
11...	1600	82913	80513	347	.21	756	7.0	97	8.4	369	31.8
AUG											
08...	1210	82913	80513	940	.12	762	4.7	59	7.4	244	27.5
SEP											
18...	1105	82913	80513	230	.12	759	6.1	72	7.5	275	23.1

DATE	TIME	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT									
11...	0955	99	100	--	--	--	69	26	7
NOV									
29...	1135	84	94	98	100	--	195	542	12
DEC									
12...	1250	100	--	--	--	--	51	76	60
JAN									
09...	1255	81	81	94	100	--	44	97	61
FEB									
06...	1440	95	96	98	100	--	71	207	79
MAR									
20...	1330	94	94	98	100	--	54	242	20
20...	1405	99	99	99	99	100	62	308	23
APR									
17...	1355	68	88	100	--	--	75	277	9
MAY									
01...	1230	97	98	100	--	--	88	177	57
JUN									
13...	1150	96	98	100	--	--	66	92	27
JUL									
11...	1600	99	99	100	--	--	83	78	7
AUG									
08...	1210	99	99	100	--	--	67	170	6
SEP									
18...	1105	98	98	100	--	--	79	49	6

07040450 ST. FRANCIS RIVER AT LAKE CITY--CONTINUED

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	SAMPLE SOURCE (72005)
OCT									
11...	0955	17	71	98	100	--	--	--	--
NOV									
29...	1135	21	68	97	100	--	--	--	--
DEC									
12...	1250	72	89	99	100	--	--	--	--
JAN									
09...	1255	68	86	98	100	--	--	--	--
FEB									
06...	1440	95	98	100	--	--	--	--	--
MAR									
20...	1330	34	78	98	100	--	--	--	67.00
20...	1405	32	69	95	98	--	98	100	68.00
APR									
17...	1355	33	90	100	--	--	--	--	--
MAY									
01...	1230	61	76	94	99	100	--	--	--
JUN									
13...	1150	35	58	87	99	--	99	100	--
JUL									
11...	1600	13	51	91	97	100	--	--	--
AUG									
08...	1210	16	70	97	100	--	--	--	--
SEP									
18...	1105	25	78	98	100	--	--	--	--

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE

LOCATION.--Lat 35°40'20", long 90°29'12", in SW1/4 sec.10, T.12 N., R.7 E., Poinsett County, Hydrologic Unit 08020204, at bridge on State Highway 135 at Rivervale, 9.0 mi upstream from St. Francis River.

DRAINAGE AREA.--2,106 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
OCT									
11...	1100	82913	80513	194	.60	771	9.7	96	7.9
NOV									
29...	1240	82913	80513	2580	.09	768	9.1	78	6.8
DEC									
12...	1420	82913	80513	401	.64	770	10.2	77	7.5
JAN									
09...	1345	82913	80513	810	.24	770	8.0	61	7.2
FEB									
06...	1320	82913	80513	683	.46	760	7.9	63	7.2
MAR									
21...	0750	82913	80513	2270	.09	770	6.5	57	6.6
APR									
17...	1455	82913	80513	1240	.46	770	8.2	88	7.9
MAY									
01...	1345	82913	80513	792	.46	762	7.6	88	7.9
JUN									
13...	1250	82913	80513	738	.76	757	7.1	91	7.6
JUL									
11...	1400	82913	80513	405	.27	757	6.8	95	8.2
AUG									
08...	1445	82913	80513	518	.18	760	6.7	90	7.6
SEP									
18...	1205	82913	80513	180	.24	759	7.1	86	8.1

DATE	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT								
11...	457	15.2	99	100	--	--	72	38
NOV								
29...	177	8.8	100	--	--	--	346	2410
DEC								
12...	240	3.8	100	--	--	--	121	131
JAN								
09...	364	4.4	99	99	100	--	96	210
FEB								
06...	315	5.5	100	--	--	--	130	240
MAR								
21...	220	10.0	100	--	--	--	180	1100
APR								
17...	358	19.5	100	--	--	--	68	228
MAY								
01...	421	22.5	100	--	--	--	81	173
JUN								
13...	284	27.5	100	--	--	--	81	161
JUL								
11...	422	32.4	99	99	99	100	66	72
AUG								
08...	207	30.9	98	98	100	--	107	150
SEP								
18...	386	24.8	97	97	100	--	81	39

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

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)
OCT										
11...	1100	4	9	55	95	99	100	--	--	--
NOV										
29...	1240	22	56	94	98	100	--	--	--	--
DEC										
12...	1420	16	38	87	98	100	--	--	--	--
JAN										
09...	1345	16	48	92	100	--	--	--	--	--
FEB										
06...	1320	6	10	64	98	100	--	--	--	--
MAR										
21...	0750	14	27	71	86	93	--	94	94	100
APR										
17...	1455	6	35	90	98	100	--	--	--	--
MAY										
01...	1345	20	40	85	95	96	--	96	96	100
JUN										
13...	1250	11	38	93	98	100	--	--	--	--
JUL										
11...	1400	5	15	83	97	100	--	--	--	--
AUG										
08...	1445	8	31	92	98	100	--	--	--	--
SEP										
18...	1205	10	48	88	96	98	--	98	100	--

07047800 ST. FRANCIS RIVER AT PARKIN

LOCATION.--Lat 35°16'23", long 90°33'33", in NE1/4SE1/4 sec.33, T.8 N., R.5 E., Cross County, Hydrologic Unit 08020203, at bridge on U.S. Highway 64 at Parkin, 1.1 mi downstream from Tyronza River, and at mile 102.0.

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

PERIOD OF RECORD.--October 1965 to September 1994 and October 1997 to current year 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 above sea level. Prior to Sept. 11, 1948, nonrecording gage, and Sept. 11, 1948 to Apr. 24, 1968, water-stage recorder at site 1.8 mi downstream at present datum.

REMARKS.--Water-discharge records good except estimated daily discharges, which are fair. The greater part of St. Francis River floodflow is diverted through St. Francis River floodway at lock and dam about 4.0 mi 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 upstream since Apr. 1, 1941, capacity, 625,000 acre-ft. Stage-discharge relation affected by backwater during high stages of Mississippi River. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	619	19	434	174	2110	3510	1700	1360	2900	2370	1450	162
2	645	20	301	160	1740	2710	1740	1360	3230	2390	1520	216
3	556	19	219	150	1530	2330	1650	1360	2700	2050	1530	263
4	291	22	164	144	1440	3400	1600	1370	2030	1630	1510	219
5	112	26	128	130	1390	4820	1600	1370	1640	1340	1480	173
6	72	32	106	124	1380	4670	1560	1390	1560	1260	1480	139
7	61	198	93	135	1370	3680	1560	1430	1580	1360	1460	126
8	46	519	82	136	1370	2810	1590	1490	1710	1280	1410	110
9	37	682	73	137	1380	2340	1560	1500	1760	1130	1170	111
10	30	644	70	131	1380	2060	1510	1450	1640	1020	1140	115
11	26	451	66	134	1370	1900	1470	1390	1510	985	1130	99
12	24	274	60	139	1350	2530	1430	1350	1370	988	1100	75
13	24	196	66	169	1450	3990	1420	1320	1270	1010	1230	58
14	24	260	e113	201	2550	4710	1410	1300	1220	1040	1570	54
15	309	278	354	253	5300	4810	1430	1290	1210	1030	1600	49
16	415	201	2970	291	7710	4520	1420	1290	1230	971	1420	40
17	171	138	6010	262	9960	4010	1400	1280	1240	865	1200	35
18	66	95	6900	251	10500	3200	1380	1260	1120	547	1090	31
19	35	72	6130	924	9530	2500	1360	1260	933	386	1040	44
20	26	56	4100	1920	7720	2100	1380	1270	855	411	935	49
21	24	43	2250	1620	5880	1860	1400	1770	833	480	861	42
22	23	40	1190	883	4330	1720	1400	3120	809	510	882	38
23	22	43	e811	471	3340	1640	1400	3360	801	557	885	32
24	22	581	629	375	2990	1610	1410	2610	819	489	845	28
25	21	4100	e509	927	4230	1580	1400	2080	855	414	789	24
26	225	5740	e413	1330	5880	1540	1380	1800	859	407	738	22
27	264	5490	e338	1410	5970	1510	1390	1630	869	852	666	21
28	99	3810	e291	1400	4800	1490	1400	1450	1030	1150	452	18
29	42	1900	240	1520	---	1480	1400	1320	1610	1320	235	15
30	26	803	207	2380	---	1500	1380	1300	2080	1310	169	103
31	21	---	186	2530	---	1570	---	1700	---	1310	159	---
TOTAL	4378	26752	35503	20811	109950	84100	44130	49230	43273	32862	33146	2511
MEAN	141	892	1145	671	3927	2713	1471	1588	1442	1060	1069	83.7
MAX	645	5740	6900	2530	10500	4820	1740	3360	3230	2390	1600	263
MIN	21	19	60	124	1350	1480	1360	1260	801	386	159	15
AC-FT	8680	53060	70420	41280	218100	166800	87530	97650	85830	65180	65750	4980

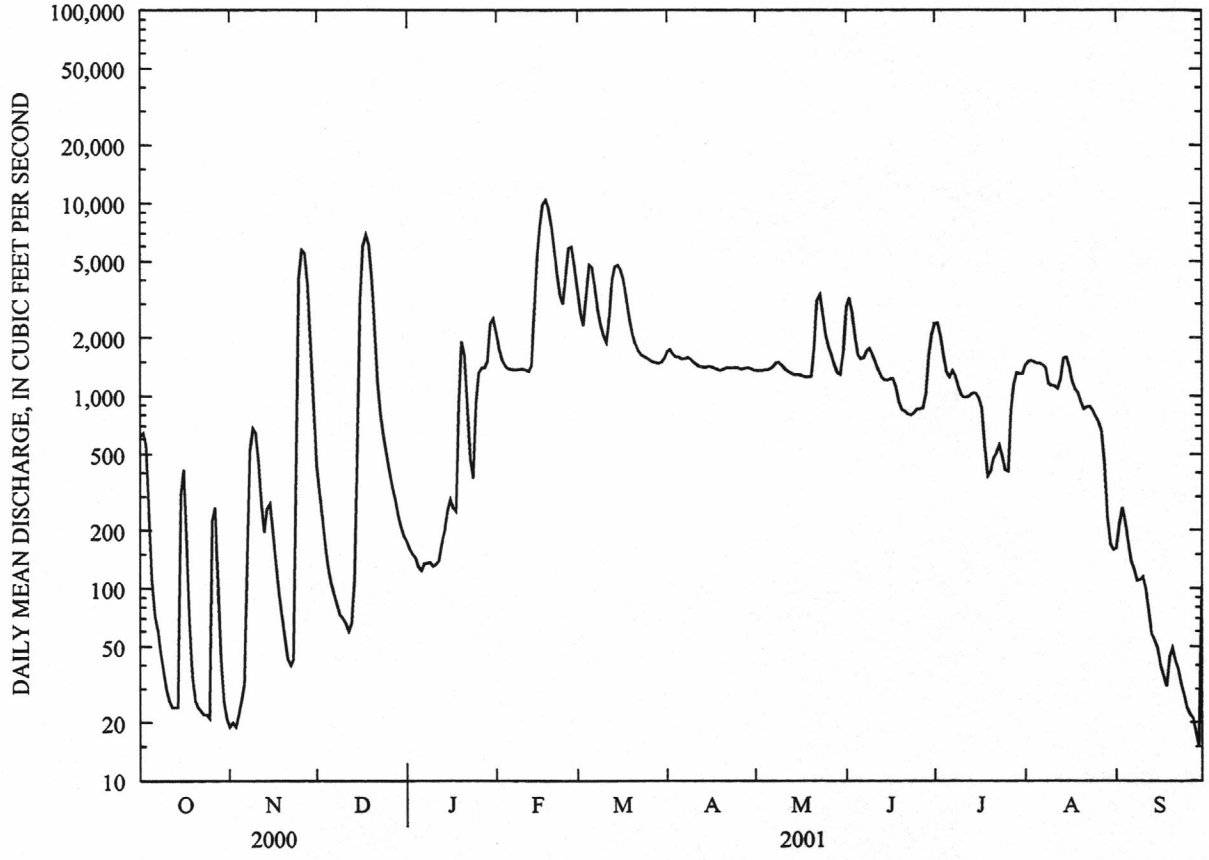
07047800 ST. FRANCIS RIVER AT PARKIN--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-94, 1998-01, BY WATER YEAR (WY)

MEAN	1142	1649	2283	3286	4100	3928	4003	3480	2708	2063	1530	1239
MAX	3898	6532	6635	14140	18100	9627	14360	12900	8172	4038	3998	3920
(WY)	1946	1958	1932	1932	1932	1932	1933	1933	1933	1945	1998	1950
MIN	141	97.3	201	197	382	928	1080	1054	685	879	376	83.7
(WY)	2001	2000	1990	2000	1964	1954	1954	1977	1977	1941	1990	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931-94, 1998-01	
ANNUAL TOTAL	494753		486646			
ANNUAL MEAN	1352		1333		2617	
HIGHEST ANNUAL MEAN					6511	1933
LOWEST ANNUAL MEAN					1145	1977
HIGHEST DAILY MEAN	6960	Feb 28	10500	Feb 18	21600	Jan 31 1932
LOWEST DAILY MEAN	19	Nov 1	15	Sep 29	15	Sep 29 2001
ANNUAL SEVEN-DAY MINIMUM	22	Oct 30	22	Oct 30	22	Oct 30 2000
MAXIMUM PEAK FLOW			10600	Feb 18	25300	Jan 31 1930
MAXIMUM PEAK STAGE			21.69	Feb 18	34.20	Feb 4 1937
INSTANTANEOUS LOW FLOW			14	Sep 30	14	Sep 30 2001
ANNUAL RUNOFF (AC-FT)	981300		965300		1896000	
10 PERCENT EXCEEDS	3100		2980		5490	
50 PERCENT EXCEEDS	1180		1190		1880	
90 PERCENT EXCEEDS	66		43		479	

[e]Estimated



07047810 ST. FRANCIS RIVER FLOODWAY NEAR MARKED TREE

LOCATION.--Lat 35°32'15", long 90°29'05", in SE1/4NE1/4 sec.31, T.11 N., R.6 E., Poincett County, Hydrologic Unit 08020203, at bridge on U.S. Highway 63 3.6 mi west of Marked Tree.

DRAINAGE AREA.--Not determined

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1927 to September 1931, July 1934 to September 1970, October 1990 to current year. Results of discharge measurements April 1973 to March 1977 and daily stages and flows February 1977 to date in reports of U.S. Army Corps of Engineers. Prior to October 1, 1965 published as "07047000 St. Francis River Floodway near Marked Tree (Dam)".

GAGE.--Water-stage recorder. Datum of gage is 188.83 ft above sea level. Prior to October 1, 1965 non-recording gage 4.8 mi upstream at datum 3.25 ft higher. Prior to February 1977 non-recording gage at present site and datum.

REMARKS.--Water-discharge records good, except estimated daily discharges which are poor. Flow diverted from St. Francis River bypasses Marked Tree and returns to St. Francis River below Parkin. Some regulation by Wappapello Lake (Missouri) since April 1, 1941 (capacity, 625,000 acre-ft). Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	e30	e4380	e2640	1800	12700	2920	854	1050	515	1720	471
2	55	e30	e3620	e2750	1950	11700	2930	726	566	445	1870	303
3	68	e35	e3110	e2510	1590	10500	2430	700	847	484	1330	277
4	85	e35	e2240	e1910	1740	9710	2750	705	949	378	423	329
5	145	e40	e1870	e1750	964	9780	3350	631	576	298	344	258
6	233	e40	e1440	e1580	848	10400	5480	556	772	478	210	426
7	230	e80	e1440	e1480	814	11000	6490	523	686	268	143	588
8	329	e100	e1350	e1550	1050	11100	6100	698	788	178	322	361
9	244	e200	e1010	e1700	1300	10700	3680	537	1310	194	533	411
10	137	e240	e948	e1850	1380	10000	3360	373	1480	156	529	582
11	185	e290	e896	1630	1580	9010	3200	480	1110	169	626	346
12	203	e350	e782	1420	1740	8170	2370	446	523	135	970	473
13	157	e400	e1170	1610	1960	8750	1910	243	635	118	1360	715
14	e115	e390	e1500	1740	2150	8960	2020	300	469	121	1730	789
15	e85	e350	e1930	1440	3650	8640	2150	381	435	85	1990	318
16	e70	e310	e3500	1660	8030	8450	2190	346	356	114	1320	388
17	e65	e270	e6530	1900	10700	8700	2160	257	363	332	861	535
18	e60	e230	e7550	2120	14800	8560	1760	216	451	585	1210	334
19	e55	e180	e7250	2300	18200	7940	1980	212	587	805	944	505
20	e50	e120	e7220	2600	19300	6300	2110	204	375	901	168	263
21	e45	e80	e6760	2800	19800	5130	2030	287	311	568	255	205
22	e40	e40	e5320	2940	19600	4280	1600	1390	318	1060	379	391
23	e40	e35	e4090	2770	18900	3650	1850	3730	246	1950	182	562
24	e40	e950	e3200	2390	17700	3130	1920	3680	247	2520	105	649
25	e40	e1800	e2610	2190	16400	3210	1460	1960	207	2010	90	434
26	e35	e2400	e2460	1530	14900	2940	1280	1160	102	828	85	253
27	e35	e3000	e2470	1060	14000	2920	1480	965	143	636	83	181
28	e35	2990	e2720	1210	13400	2890	1260	535	247	447	92	116
29	e30	4550	e3090	1350	---	2370	1300	724	405	459	225	87
30	e30	e4990	e2770	1460	---	2450	824	886	608	807	411	80
31	e30	---	e2900	1530	---	2750	---	1060	---	1300	564	---
TOTAL	3040	24555	98126	59370	230246	226790	76344	25765	17162	19344	21074	11630
MEAN	98.1	818	3165	1915	8223	7316	2545	831	572	624	680	388
MAX	329	4990	7550	2940	19800	12700	6490	3730	1480	2520	1990	789
MIN	30	30	782	1060	814	2370	824	204	102	85	83	80
AC-FT	6030	48700	194600	117800	456700	449800	151400	51100	34040	38370	41800	23070

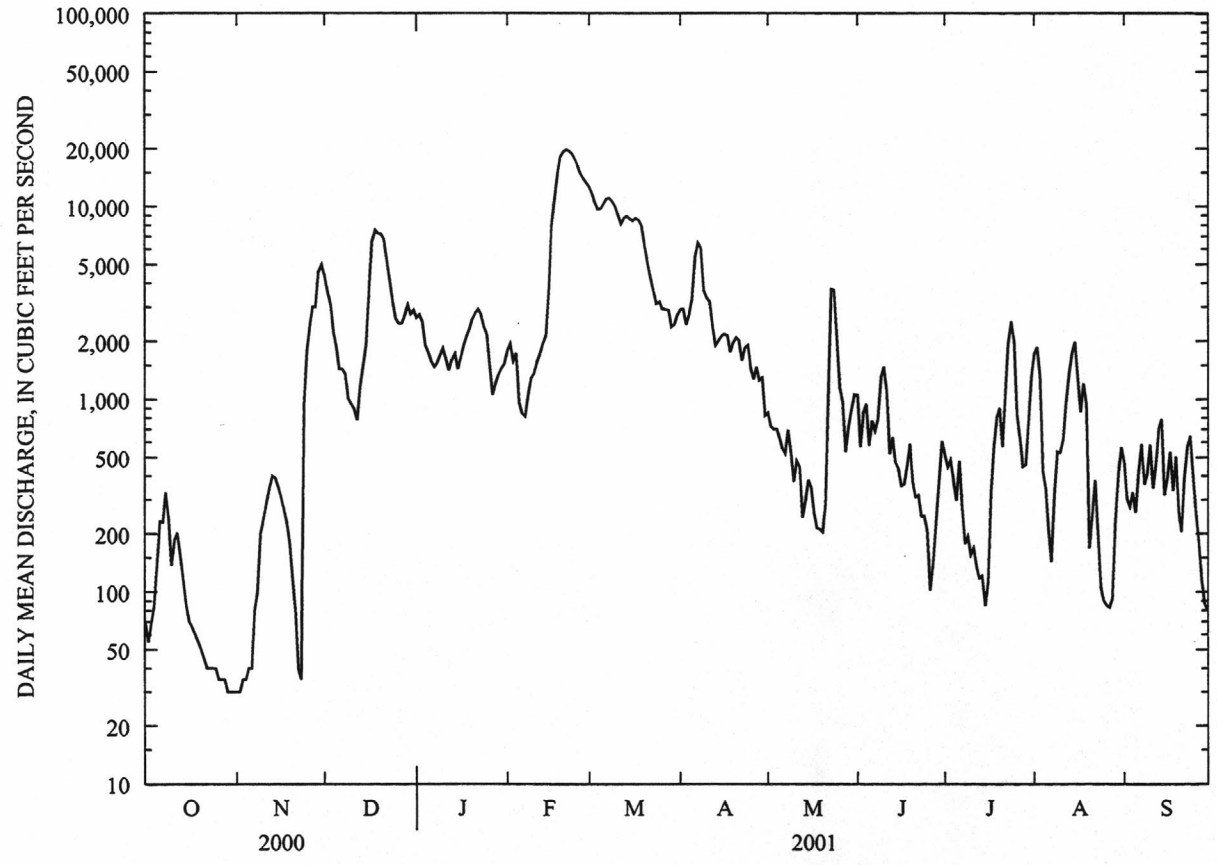
07047810 ST. FRANCIS RIVER FLOODWAY NEAR MARKED TREE--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935-70, 1991-01, BY WATER YEAR (WY)

MEAN	821	1790	4032	6747	7935	8294	8715	6651	4286	2096	1056	602
MAX	5933	19780	17470	31060	30990	22970	30180	20530	23550	12630	12880	3970
(WY)	1950	1958	1952	1950	1950	1997	1945	1945	1957	1957	1998	1965
MIN	.000	.000	.000	39.1	190	225	441	.39	.000	.000	.000	.000
(WY)	1935	1944	1944	1944	1936	1941	1941	1941	1941	1941	1936	1935

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1935-70, 1991-01	
ANNUAL TOTAL	875653		813446			
ANNUAL MEAN	2392		2229		4399	
HIGHEST ANNUAL MEAN					10390	1950
LOWEST ANNUAL MEAN					258	1941
HIGHEST DAILY MEAN	14700	Jun 4	19800	Feb 21	48300	Jan 27 1937
LOWEST DAILY MEAN	30	Aug 20	30	Oct 29	[a].00	Oct 1 1934
ANNUAL SEVEN-DAY MINIMUM	31	Oct 27	31	Oct 27	.00	Oct 1 1934
MAXIMUM PEAK FLOW			19800	Feb 21	[b]48300	Jan 26-28 1937
MAXIMUM PEAK STAGE			22.63	Feb 21	[c]31.10	Jan 26-28 1937
ANNUAL RUNOFF (AC-FT)	1737000		1613000		3187000	
10 PERCENT EXCEEDS	7300		6620		12000	
50 PERCENT EXCEEDS	1270		886		1990	
90 PERCENT EXCEEDS	70		89		.00	

[a]No flow at times in most years prior to 1965
[b]Maximum discharge during period 1971-90 67,000 ft^3/s Apr. 7, 1979
[c]At former site and datum
[e]Estimated



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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
NOV									
30...	0715	82913	80513	4190	.09	760	9.1	77	6.8
30...	0750	82913	80513	891	.12	--	--	--	--
30...	0820	82913	80513	25	.09	--	--	--	--
30...	0850	82913	80513	77	.09	--	--	--	--
DEC									
14...	1125	82913	80513	1940	.12	771	10.6	78	7.3
JAN									
10...	0810	82913	80513	1930	.18	770	7.6	54	7.1
FEB									
07...	0815	82913	80513	908	.09	770	8.9	73	7.2
MAR									
21...	0955	82913	80513	4770	.09	770	8.8	79	6.6
21...	1030	82913	80513	800	.12	--	--	--	--
APR									
18...	0735	82913	80513	1800	.18	772	6.8	69	7.7
MAY									
10...	1510	82913	80513	883	.12	762	7.8	91	8.0
JUN									
14...	0635	82913	80513	418	.18	758	6.2	79	7.8

DATE	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV								
30...	202	8.0	93	99	99	100	296	3350
30...	--	8.1	98	99	100	--	185	445
30...	--	7.5	100	--	--	--	198	13
30...	--	8.0	100	--	--	--	291	60
DEC								
14...	235	3.2	99	99	100	--	67	351
JAN								
10...	325	2.0	96	96	98	100	51	266
FEB								
07...	263	7.4	98	98	100	--	74	181
MAR								
21...	196	11.0	87	89	94	100	92	1180
21...	--	11.0	96	98	99	100	97	210
APR								
18...	267	16.6	98	98	98	100	50	243
MAY								
10...	300	23.2	99	99	99	100	55	131
JUN								
14...	311	27.4	100	--	--	--	53	60

DATE	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	SAMPLE SOURCE (72005)
NOV									
30...	13	34	90	97	100	--	--	--	67.00
30...	12	36	92	98	100	--	--	--	68.00
30...	19	26	60	91	95	96	98	100	68.00
30...	20	25	59	94	97	99	100	--	68.00
DEC									
14...	9	35	96	99	100	--	--	--	--
JAN									
10...	8	16	71	98	100	--	--	--	--
FEB									
07...	8	23	75	99	100	--	--	--	--
MAR									
21...	8	33	98	99	100	--	--	--	67.00
21...	7	29	96	100	--	--	--	--	68.00
APR									
18...	4	30	97	99	100	--	--	--	--
MAY									
10...	47	61	97	100	--	--	--	--	--
JUN									
14...	1	23	89	93	96	96	97	100	--

07047815 CROSS COUNTY DITCH NEAR BIRDEYE

LOCATION.--Lat 35°21'38", long 90°39'00", in NE1/4SE1/4 sec.34, T.9 N., R.4 E., Cross County, Hydrologic Unit 08020203, at bridge on State Highway 42 2.3 mi east of Birdeye.

DRAINAGE AREA.--Not determined

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	TEMPERATURE WATER (DEG C) (00010)	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)
NOV 30...	1110	82913	80513	5500	.09	8.2	97	99	100	--
DEC 14...	1230	82913	80513	1750	.18	3.1	99	99	100	--
JAN 10...	1110	82913	80513	1730	.24	2.0	97	97	100	--
FEB 07...	0955	82913	80513	801	.09	6.2	99	99	100	--
MAR 21...	1245	82913	80513	6350	.09	11.0	92	98	99	100
APR 18...	0950	82913	80513	2200	.15	17.0	98	98	100	--
MAY 02...	0820	82913	80513	877	.18	22.0	97	97	99	100
JUN 14...	0925	82913	80513	E492	.27	28.4	98	98	100	--

DATE	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80169)	BED MAT FALL DIAM. % FINER THAN 4.00 MM (80170)
NOV 30...	244	3620	41	71	86	96	100	--	--
DEC 14...	63	298	32	73	97	99	100	--	--
JAN 10...	62	290	3	4	46	97	100	--	--
FEB 07...	76	164	1	3	26	97	100	--	--
MAR 21...	106	1820	14	44	97	98	100	--	--
APR 18...	69	410	20	61	97	99	99	99	100
MAY 02...	60	142	16	72	98	99	100	--	--
JUN 14...	60	--	6	29	88	97	100	--	--

Remark codes used in this report:
E -- Estimated value

07047900 ST. FRANCIS BAY AT RIVERFRONT

LOCATION.--Lat 35°15'34", long 90°40'48", in W1/2 sec.4, T.7 N., R.4 E., Cross County, Hydrologic Unit 08020203, at bridge on U.S. Highway 64 at Riverfront, 7.0 mi west of Parkin.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1994 and October 1997 to current year in reports of Geological Survey. January 1935 to date in reports of Mississippi River Commission.

GAGE.--Nonrecording gage read once daily. Datum of gage is 171.25 ft above sea level. Aug. 20, 1948 to Jan. 6, 1999, water-stage recorder at present site and datum. Prior to Aug. 20, 1948, nonrecording gage at present site and datum. Water-stage recorder from Clark Corner Cut-Off near Colt (07047904) 9.1 mi downstream at datum 154.87 ft above sea level used as auxiliary gage for this station since October 1, 1997.

REMARKS.--Water-discharge records fair, except estimated daily discharges which are poor. Part of the flow at this station is diverted from the St. Francis River at lock and dam about 4.0 mi northwest of Marked Tree (see station 07047800). Some regulation by Wappapelo Lake (Missouri) since Apr. 1, 1941, capacity, 625,000 acre-ft. Stage-discharge relation affected by backwater during high stages of Mississippi River. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	e220	3620	2170	1050	15400	1940	130	1080	658	293	354
2	e120	e250	2380	2070	880	14700	1830	270	784	500	484	456
3	e110	327	2040	1800	1220	13800	1450	615	697	498	342	306
4	e100	281	1250	1790	1520	13700	1480	285	86	501	161	298
5	e100	214	1030	1640	1050	13700	1820	813	130	372	491	298
6	e200	265	1120	1180	766	13000	2810	897	645	273	448	298
7	323	200	1090	1040	818	12700	4230	838	693	266	339	298
8	e300	571	1030	971	549	12500	4980	841	752	257	309	298
9	e350	924	1020	1080	672	12100	4760	945	780	198	460	308
10	e220	859	1120	1250	741	11600	2250	791	420	102	556	413
11	171	703	1130	1670	913	10800	1860	546	348	95	568	457
12	e200	1320	1130	1020	1020	10900	1590	526	322	131	584	306
13	e200	2050	1130	1040	1200	11400	944	487	610	208	371	354
14	e150	1590	1220	1210	2090	11300	804	393	631	103	528	583
15	e130	874	2010	1210	5210	10900	869	384	562	95	631	783
16	e120	828	4920	1110	13900	10700	1080	384	587	83	546	e620
17	e130	815	7900	1090	20900	10200	1020	384	450	45	322	e500
18	e140	771	7550	1320	18700	9570	1080	384	439	142	786	e400
19	e140	771	7090	2100	19100	9060	1760	384	471	601	313	388
20	e150	784	7030	e2500	19400	7840	1150	e400	545	824	715	e320
21	e150	841	6710	e2900	20100	6180	1080	e500	447	849	323	e260
22	e150	950	5090	e2600	21000	4950	933	e2000	420	518	278	e220
23	e170	1120	2570	e2300	21600	2710	852	e4000	336	320	348	e200
24	e190	1670	1830	e2000	21500	2350	959	e3500	261	760	130	e170
25	e210	3800	1790	e1700	21500	2030	870	e2500	229	918	118	e150
26	e180	4080	1970	e1400	20500	1710	546	e1500	227	597	118	e140
27	e160	2830	2640	e1100	18200	1500	526	398	227	791	118	e130
28	e170	2880	3000	939	16700	1630	515	863	213	893	111	e125
29	e180	3790	2730	1080	---	1520	439	660	231	879	74	e120
30	e270	5070	1960	1250	---	1290	356	554	458	861	156	118
31	e250	---	2160	1580	---	1880	---	477	---	850	290	---
TOTAL	5565	41648	89260	48110	272799	263620	46783	27649	14081	14188	11311	9671
MEAN	180	1388	2879	1552	9743	8504	1559	892	469	458	365	322
MAX	350	5070	7900	2900	21600	15400	4980	4000	1080	918	786	783
MIN	100	200	1020	939	549	1290	356	130	86	45	74	118
AC-FT	11040	82610	177000	95430	541100	522900	92790	54840	27930	28140	22440	19180

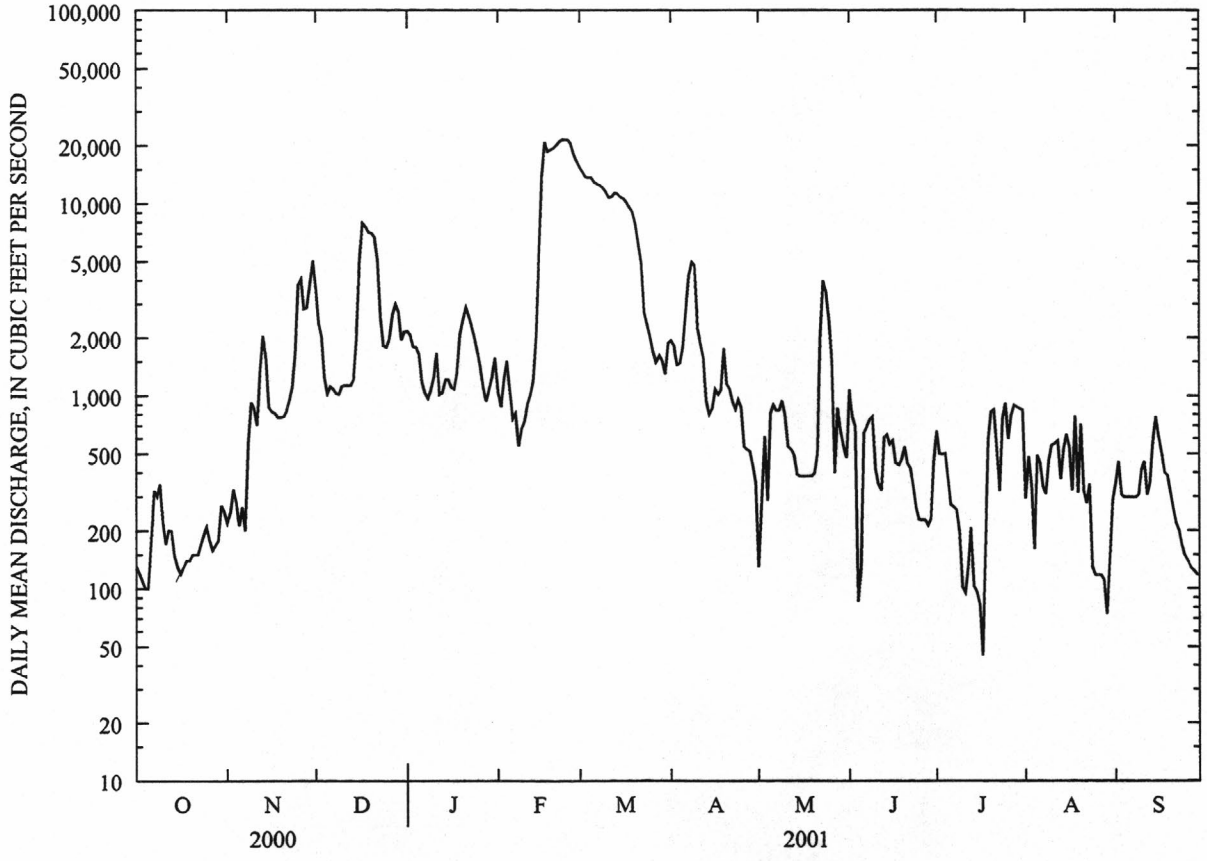
07047900 ST. FRANCIS BAY AT RIVERFRONT--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936-94, 1998-01, BY WATER YEAR (WY)

MEAN	1180	2225	5182	7752	9401	10110	10240	8280	5001	2587	1519	1049
MAX	6413	16410	23870	30270	37420	27400	36220	33660	27120	14280	13240	3942
(WY)	1950	1958	1958	1950	1937	1979	1979	1973	1957	1957	1998	1965
MIN	36.8	24.7	89.0	103	336	465	625	292	78.3	70.0	61.0	48.0
(WY)	1940	1942	1941	1944	1936	1941	1941	1941	1941	1941	1936	1941

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1936-94, 1998-01	
ANNUAL TOTAL	1000149		844685			
ANNUAL MEAN	2733		2314		5404	
HIGHEST ANNUAL MEAN					13580	1973
LOWEST ANNUAL MEAN					344	1941
HIGHEST DAILY MEAN	14600	Jun 4	21600	Feb 23	53000	Apr 8 1979
LOWEST DAILY MEAN	100	Sep 6	45	Jul 17	.00	Nov 17 1941
ANNUAL SEVEN-DAY MINIMUM	132	Sep 30	109	Jul 11	.00	Nov 17 1941
MAXIMUM PEAK FLOW					54700	Apr 8 1979
MAXIMUM PEAK STAGE			[a]24.50	Feb 17	[b]39.03	May 3 1973
INSTANTANEOUS LOW FLOW			8.0	Jun 5	.00	Nov 17 1941
ANNUAL RUNOFF (AC-FT)	1984000		1675000		3915000	
10 PERCENT EXCEEDS	7490		7050		14500	
50 PERCENT EXCEEDS	1500		784		2610	
90 PERCENT EXCEEDS	163		150		230	

[a]From graph based on once-daily gage readings
[b]Backwater from Mississippi River
[e]Estimated



07047900 ST. FRANCIS BAY AT RIVERFRONT--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
11...	1515	82913	80513	1810	.27	771	9.8	104	7.8	400	18.6
NOV											
30...	1425	82913	80513	5460	.09	760	9.1	78	6.8	214	8.4
DEC											
14...	1325	82913	80513	1810	.12	770	10.6	79	7.3	243	3.4
JAN											
11...	0730	82913	80513	2040	.18	765	10.4	77	7.2	321	3.0
FEB											
07...	1155	82913	80513	850	.12	771	9.4	81	7.2	266	9.2
MAR											
21...	1435	82913	80513	5670	.09	770	8.8	81	6.6	199	12.2
APR											
19...	0730	82913	80513	2000	.15	765	7.4	79	7.6	285	18.6
MAY											
03...	0745	82913	80513	926	.15	765	7.2	83	8.1	303	22.5
JUN											
14...	1045	82913	80513	623	.18	760	7.2	94	8.0	342	29.2
JUL											
13...	0705	82913	80513	254	.60	761	6.3	80	8.5	445	27.5
AUG											
09...	1035	82913	80513	466	.18	761	6.3	83	7.7	426	30.0
SEP											
19...	1130	82913	80513	368	.24	759	7.1	86	8.1	381	25.1

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
OCT								
11...	98	100	--	--	--	67	327	1
NOV								
30...	99	100	--	--	--	278	4100	33
DEC								
14...	100	--	--	--	--	64	313	63
JAN								
11...	99	99	100	--	--	52	286	45
FEB								
07...	95	97	99	100	--	63	145	2
MAR								
21...	93	96	98	100	--	110	1680	7
APR								
19...	98	98	100	--	--	69	373	21
MAY								
03...	87	90	94	100	--	96	240	28
JUN								
14...	98	98	98	98	100	75	126	23
JUL								
13...	99	99	100	--	--	67	46	0
AUG								
09...	83	84	95	100	--	93	117	63
SEP								
19...	99	99	100	--	--	107	106	20

07047900 ST. FRANCIS BAY AT RIVERFRONT--CONTINUED

DATE	TIME	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)
OCT 11...	1515	2	31	99	100	--	--
NOV 30...	1425	85	98	99	100	--	--
DEC 14...	1325	95	99	100	--	--	--
JAN 11...	0730	81	98	100	--	--	--
FEB 07...	1155	5	55	99	100	--	--
MAR 21...	1435	51	96	99	100	--	--
APR 19...	0730	65	99	100	--	--	--
MAY 03...	0745	60	95	97	99	99	100
JUN 14...	1045	31	67	99	100	--	--
JUL 13...	0705	0	31	95	100	--	--
AUG 09...	1035	69	83	97	98	99	100
SEP 19...	1130	29	74	98	100	--	--

07047904 CLARK CORNER CUT-OFF NEAR COLT

LOCATION.--Lat 35°08'41", long 90°39'23", in NW1/4NE1/4 sec.15, T.6 N., R.4 E., St. Francis County, Hydrologic Unit 08020203, at bridge on Old Military Road 9.0 mi east of Colt.

DRAINAGE AREA.--Not determined.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
NOV 30...	1300	82913	80513	5540	.09	760	9.2	79	6.7
DEC 14...	1435	82913	80513	E1900	.09	770	10.4	77	7.4
JAN 10...	1300	82913	80513	1690	.18	770	11.2	81	7.3
FEB 08...	0800	82913	80513	995	.15	771	9.2	76	7.2
MAR 22...	0815	82913	80513	6270	.09	770	8.9	81	6.5
APR 18...	1215	82913	80513	2550	.15	772	7.4	80	7.8
MAY 02...	1250	82913	80513	1060	.18	762	8.0	93	8.1
JUN 14...	1250	82913	80513	613	.15	760	6.8	89	7.7

DATE	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	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)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)
NOV 30...	220	8.8	100	--	--	--	589	8810	42
DEC 14...	228	3.1	100	--	--	--	73	--	12
JAN 10...	291	2.2	100	--	--	--	55	251	36
FEB 08...	263	7.5	98	98	100	--	93	250	36
MAR 22...	197	11.4	98	98	99	100	106	1790	10
APR 18...	275	19.5	98	98	98	100	68	468	10
MAY 02...	328	23.0	98	98	99	100	74	212	10
JUN 14...	326	29.2	93	95	98	100	80	132	6

DATE	BED FALL DIAM. % FINER THAN .125 MM (80159)	BED FALL DIAM. % FINER THAN .250 MM (80160)	BED FALL DIAM. % FINER THAN .500 MM (80161)	BED FALL DIAM. % FINER THAN 1.00 MM (80162)	BED FALL DIAM. % FINER THAN 2.00 MM (80163)	BED SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED SIEVE DIAM. % FINER THAN 8.00 MM (80171)
NOV 30...	93	98	100	--	--	--	--	--
DEC 14...	48	77	90	94	--	95	96	100
JAN 10...	68	86	96	99	--	100	--	--
FEB 08...	65	88	99	99	100	--	--	--
MAR 22...	59	96	99	100	--	--	--	--
APR 18...	48	83	97	100	--	--	--	--
MAY 02...	38	74	96	100	--	--	--	--
JUN 14...	37	82	96	100	--	--	--	--

Remark codes used in this report:
E -- Estimated value

07047907 ST. FRANCIS RIVER AT MADISON

LOCATION.--Lat 35°00'38", long 90°43'05", in NE1/4SW1/4 sec.30, T.5 N., R.4 E., St. Francis County, Hydrologic Unit 08020203, at bridge on State Highway 50 at Madison.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM (00095)
OCT										
12...	0810	82913	80513	185	.36	770	8.6	80	7.3	408
DEC										
01...	0850	82913	80513	4680	.09	767	9.2	77	6.9	215
15...	0715	82913	80513	E1900	.09	770	10.4	76	7.3	246
JAN										
10...	1440	82913	80513	1730	.12	768	12.2	89	7.3	261
FEB										
07...	1320	82913	80513	1090	.09	770	8.7	76	7.2	261
MAR										
22...	0950	82913	80513	5910	.09	770	8.8	81	6.5	195
APR										
18...	1410	82913	80513	2440	.18	771	7.6	82	7.8	271
MAY										
02...	1405	82913	80513	1110	.15	760	7.2	84	7.9	318
JUN										
14...	1515	82913	80513	573	.18	760	6.4	84	8.0	321
JUL										
12...	1315	82913	80513	383	.18	760	8.4	112	8.6	401
AUG										
10...	0605	82913	80513	564	.15	760	6.5	87	7.6	414
SEP										
19...	0830	82913	80513	490	.09	757	6.9	81	7.9	376

DATE	TEMPERATURE WATER (DEG. C) (00010)	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 PENDED .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER PENDED 1.00 MM (70346)	SED. SUSP. FALL DIAM. % FINER THAN 2.00 MM (70347)	SEDIMENT, SUSTHAN (MG/L) (80154)	SEDIMENT, DISCHARGE, PENDED THAN (T/DAY) (80155)
OCT									
12...	12.8	70	70	87	98	100	--	96	48
DEC									
01...	8.1	100	--	--	--	--	--	270	3410
15...	3.0	97	97	97	100	--	--	68	--
JAN									
10...	2.7	100	--	--	--	--	--	53	248
FEB									
07...	9.8	97	100	--	--	--	--	64	188
MAR									
22...	12.0	97	98	100	--	--	--	111	1770
APR									
18...	19.5	99	99	100	--	--	--	70	461
MAY									
02...	23.0	99	99	100	--	--	--	75	225
JUN									
14...	29.5	99	99	99	99	99	100	53	82
JUL									
12...	30.2	100	--	--	--	--	--	135	140
AUG									
10...	30.1	28	28	66	98	100	--	425	647
SEP									
19...	23.1	96	96	100	--	--	--	83	110

07047907 ST. FRANCIS RIVER AT MADISON--CONTINUED

DATE	TIME		BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)
OCT							
12...	0810		1	2	22	89	100
DEC							
01...	0850		49	80	99	99	100
15...	0715		87	96	99	100	--
JAN							
10...	1440		37	71	99	100	--
FEB							
07...	1320		54	91	99	100	--
MAR							
22...	0950		12	39	97	100	--
APR							
18...	1410		13	70	99	100	--
MAY							
02...	1405		22	58	97	98	100
JUN							
14...	1515		36	43	71	97	100
JUL							
12...	1315		22	48	98	98	100
AUG							
10...	0605		7	7	50	93	100
SEP							
19...	0830		48	71	94	97	100

Remark codes used in this report:
E -- Estimated value

07047942 L'ANGUILLE RIVER NEAR COLT

LOCATION.--Lat 35°08'40", long 90°52'40", in NE1/4NW1/4 sec.15, T.6 N.,R.2 E., St. Francis County, Hydrologic Unit 08020205, near center of span on downstream side of bridge on State Highway 306, 1.1 mi downstream from Lick Creek, 3.9 mi northwest of Colt, and at mile 52.8.

DRAINAGE AREA.--535 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 192.52 ft above sea level. Auxiliary water-stage recorder 8.7 mi downstream.

REMARKS.--Water-discharge records good except estimated daily discharges and those below 50 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	5.2	1350	e820	788	2170	759	30	428	19	107	173
2	117	5.7	1190	e770	845	1960	758	22	514	27	137	201
3	84	6.4	1080	e710	840	1800	752	19	689	27	163	198
4	64	8.8	971	e670	814	1940	1010	17	816	19	173	202
5	53	10	874	603	786	2000	1070	13	823	15	176	221
6	52	14	796	536	760	2020	1060	10	761	14	175	236
7	103	59	718	476	740	1930	1010	15	679	15	169	230
8	143	64	633	433	719	1730	914	67	604	18	161	214
9	183	142	542	399	709	1570	820	75	528	18	143	193
10	190	152	458	367	697	1440	737	63	455	19	122	172
11	171	182	394	346	661	1340	657	63	389	21	107	151
12	135	204	330	333	626	1660	592	63	329	25	105	120
13	94	248	277	314	706	1830	540	55	268	50	169	95
14	63	251	341	308	1260	1890	466	42	204	85	186	78
15	44	226	322	306	2770	2020	428	28	165	93	194	68
16	31	218	1210	300	3730	1960	391	20	129	83	197	60
17	26	197	1460	300	4300	1900	335	17	102	83	205	53
18	22	162	1710	313	3870	1830	279	13	70	81	217	49
19	18	112	2310	459	3570	1680	228	9.3	45	80	216	49
20	13	69	2420	467	3250	1530	177	8.2	23	157	211	74
21	8.6	40	2160	533	2950	1420	151	261	12	104	210	78
22	6.7	26	1930	595	2690	1330	123	414	11	85	211	73
23	6.4	21	e1760	593	2450	1240	99	420	13	74	205	65
24	6.0	658	e1600	568	2260	1180	85	492	11	67	202	59
25	5.5	1610	e1450	539	2470	1120	74	498	12	66	189	53
26	5.3	1590	e1350	514	2450	1050	61	450	10	63	184	46
27	5.1	1890	e1230	494	2550	983	56	381	11	66	174	39
28	5.0	2020	e1150	479	2440	910	42	329	13	75	169	31
29	5.0	1880	e1050	535	---	853	39	286	15	78	168	22
30	5.2	1600	e970	733	---	800	35	310	17	85	170	14
31	5.2	---	e900	696	---	746	---	409	---	94	166	---
TOTAL	1818.0	13671.1	34936	15509	52701	47832	13748	4899.5	8146	1806	5381	3317
MEAN	58.6	456	1127	500	1882	1543	458	158	272	58.3	174	111
MAX	190	2020	2420	820	4300	2170	1070	498	823	157	217	236
MIN	5.0	5.2	277	300	626	746	35	8.2	10	14	105	14
AC-FT	3610	27120	69300	30760	104500	94870	27270	9720	16160	3580	10670	6580
CFSM	.11	.85	2.11	.94	3.52	2.88	.86	.30	.51	.11	.32	.21
IN.	.13	.95	2.43	1.08	3.66	3.33	.96	.34	.57	.13	.37	.23

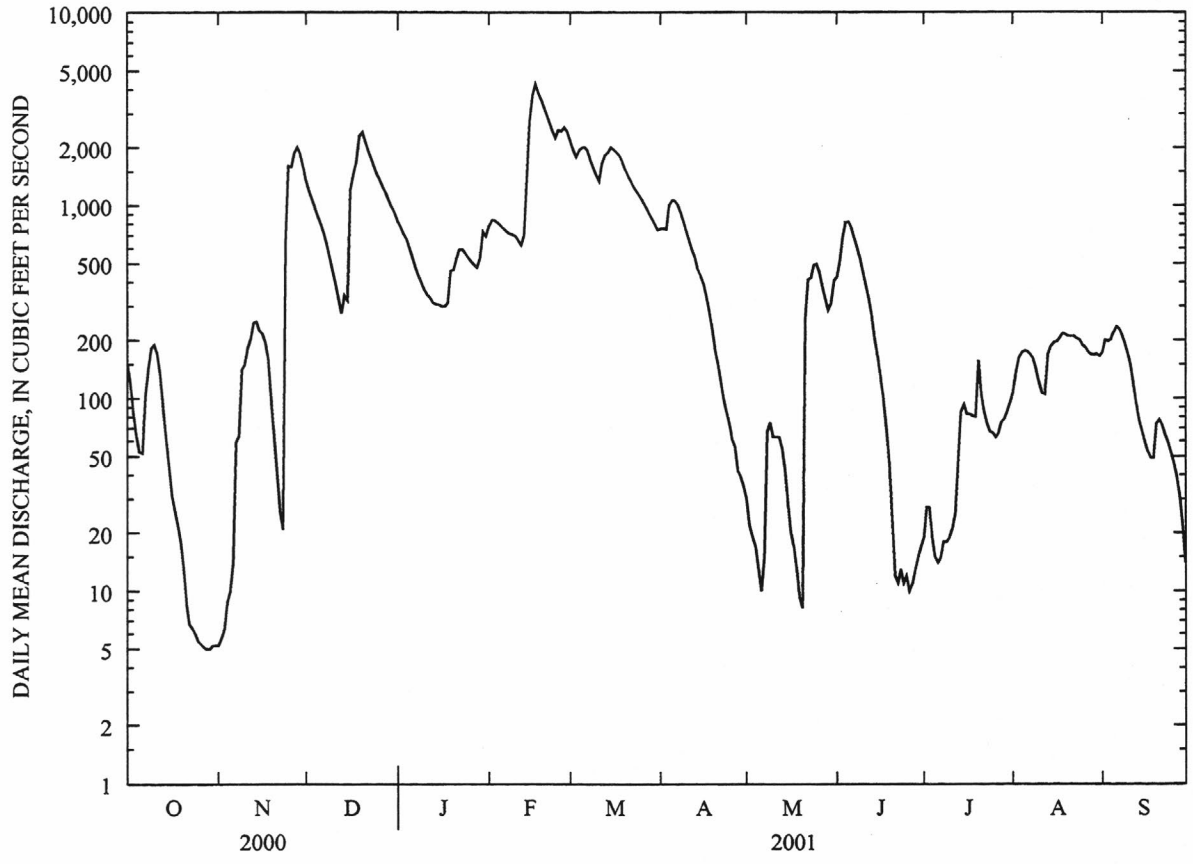
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	302	650	1166	988	1115	1128	1077	723	498	247	258	423
MAX	1509	2807	3145	2857	4091	2977	3428	3033	2617	1507	800	2784
(WY)	1991	1989	1979	1991	1989	1975	1991	1983	1974	1994	1998	1978
MIN	5.10	9.91	11.9	43.2	151	222	228	39.6	25.3	23.8	63.8	65.1
(WY)	1995	1999	1990	1986	1972	1982	1998	1992	1988	1993	1980	1998

07047942 L'ANGUILLE RIVER NEAR COLT--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	127902.1		203764.6			
ANNUAL MEAN	349		558		712	
HIGHEST ANNUAL MEAN					1321	1989
LOWEST ANNUAL MEAN					271	1972
HIGHEST DAILY MEAN	2420	Dec 20	4300	Feb 17	15000	Dec 29 1987
LOWEST DAILY MEAN	5.0	Oct 28	5.0	Oct 28	1.0	Oct 27 1971
ANNUAL SEVEN-DAY MINIMUM	5.1	Oct 26	5.1	Oct 26	1.0	Oct 9 1992
MAXIMUM PEAK FLOW			4770	Feb 16	16600	Apr 29 1991
MAXIMUM PEAK STAGE			14.79	Feb 16	[a]17.34	Dec 30 1987
INSTANTANEOUS LOW FLOW			5.0	Oct 27-29	.99	Jul 20 1980
ANNUAL RUNOFF (AC-FT)	253700		404200		515900	
ANNUAL RUNOFF (CFSM)	.65		1.04		1.33	
ANNUAL RUNOFF (INCHES)	8.89		14.17		18.09	
10 PERCENT EXCEEDS	889		1720		1860	
50 PERCENT EXCEEDS	171		211		350	
90 PERCENT EXCEEDS	45		15		30	

[a]From floodmark
[e]Estimated



07047942 L'ANGUILLE RIVER NEAR COLT--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
NOV											
20...	1105	81213	80513	65	--	785	9.9	77	7.7	362	5.9
DEC											
01...	0715	82913	80513	1690	.09	765	4.2	35	6.8	192	8.1
15...	0845	82913	80513	328	.15	770	10.1	75	7.3	231	3.4
JAN											
11...	0850	82913	80513	398	.21	765	10.1	75	7.4	344	2.9
31...	0845	81213	80513	634	--	760	7.0	59	7.5	217	8.0
FEB											
08...	0950	82913	80513	674	.06	770	8.6	72	7.2	301	8.0
MAR											
06...	1350	81213	80513	2760	--	775	7.7	66	6.6	146	9.2
22...	0630	82913	80513	1650	.09	770	7.8	68	6.4	154	9.5
APR											
19...	0845	82913	80513	260	.06	766	4.2	43	7.5	216	16.4
MAY											
01...	0900	81213	80513	28	--	766	3.9	45	7.8	216	22.7
03...	0930	82913	80513	14	.09	765	6.2	74	8.0	298	24.5
JUN											
15...	0945	82913	80513	191	.09	760	4.5	57	7.7	304	27.2
JUL											
26...	1145	81213	80513	71	--	760	4.8	63	8.0	627	29.8
SEP											
05...	1125	81213	80513	227	--	763	4.0	49	7.9	564	26.0

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS C) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DIS SOLVED (MG/ AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV										
20...	120	29.0	12.0	11.0	.7	18.0	22	109	26.0	27.0
JAN										
31...	78	20.0	6.90	7.00	.5	9.4	19	71	11.0	10.0
MAR										
06...	54	14.0	4.60	4.50	.3	4.9	15	57	5.5	5.8
MAY										
01...	82	21.0	7.10	5.60	.4	9.2	18	81	8.7	8.7
JUL										
26...	270	62.0	27.0	3.50	.7	28.0	18	79	27.0	39.0
SEP										
05...	240	56.0	24.0	6.20	.8	27.0	19	232	29.0	16.0

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, GEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)
NOV									
20...	.30	38.6	220	190	.100	.82	.13	.200	.885
JAN									
31...	.20	246	144	108	.010	1.1	.01	--	--
MAR									
06...	.13	738	99	75	.055	1.0	.07	--	--
MAY									
01...	.19	10.4	138	110	.064	1.2	.08	.280	1.24
JUL									
26...	.52	72.8	380	235	<.010	.96	--	--	--
SEP									
05...	.46	208	340	298	.040	.80	.05	--	--

07047942 L'ANGUILLE RIVER NEAR COLT--CONTINUED

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)
NOV											
20...	1105	.220	.066	.020	.72	1.0	.368	.140	.120	.220	4.0
JAN											
31...	0845	.110	--	<.010	1.1	1.2	.153	.070	.050	.190	4.7
MAR											
06...	1350	.230	--	<.010	.94	1.2	.184	.050	.060	.180	30
MAY											
01...	0900	.290	.033	.010	1.1	1.5	.184	.060	.060	.060	2.2
JUL											
26...	1145	.150	--	<.010	--	1.1	.399	.130	.130	.220	1.6
SEP											
05...	1125	.110	--	<.010	.76	.91	.307	.090	.100	.150	5.6

DATE	TIME	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV										
20...	1105	180	170	220	--	--	--	--	97	67
DEC										
01...	0715	--	--	--	98	98	98	100	--	70
15...	0845	--	--	--	99	100	--	--	--	166
JAN										
11...	0850	--	--	--	99	99	100	--	--	100
31...	0845	1400	150	1000	--	--	--	--	98	96
FEB										
08...	0950	--	--	--	99	100	--	--	--	244
MAR										
06...	1350	110	E56	E92	--	--	--	--	99	84
22...	0630	--	--	--	100	--	--	--	--	122
APR										
19...	0845	--	--	--	99	99	100	--	--	84
MAY										
01...	0900	92	84	E30	--	--	--	--	98	142
03...	0930	--	--	--	99	99	100	--	--	109
JUN										
15...	0945	--	--	--	99	99	100	--	--	86
JUL										
26...	1145	E80	70	140	--	--	--	--	99	108
SEP										
05...	1125	230	220	400	--	--	--	--	99	97

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)
NOV								
20...	12	--	--	--	--	--	--	--
DEC								
01...	319	68	73	80	95	100	--	--
15...	147	99	100	--	--	--	--	--
JAN								
11...	107	95	97	98	98	99	100	--
31...	164	--	--	--	--	--	--	--
FEB								
08...	444	50	54	70	84	97	97	100
MAR								
06...	626	--	--	--	--	--	--	--
22...	544	65	71	79	90	99	99	100
APR								
19...	59	93	94	96	99	100	--	--
MAY								
01...	11	--	--	--	--	--	--	--
03...	4.1	96	97	97	98	100	--	--
JUN								
15...	44	99	99	99	99	100	--	--
JUL								
15...	21	--	--	--	--	--	--	--
SEP								
05...	59	--	--	--	--	--	--	--

Remark codes used in this report:
< -- Less than
E -- Estimated value

07047950 L'ANGUILLE RIVER AT PALESTINE

LOCATION.--Lat 34°58'20", long 90°53'10", in NW1/4 sec.10, T.4 N., R.2 E., St. Francis County, Hydrologic Unit 08020205, at bridge on U.S. Highway 70 1.0 mi east of Palestine, and at mile 33.6.

DRAINAGE AREA.--786 mi^2.

PERIOD OF RECORD.--October 1965 to September 1977 and October 1997 to current year in reports of Geological Survey. January 1949 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of U.S. Army Corps of Engineers.

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

REMARKS.--No estimated daily discharges. Records fair, except those below 50 ft^3/s which are poor. The stage-discharge relation affected by backwater during high stages of Mississippi River. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	.00	2340	1110	762	3530	1020	44	748	28	186	231
2	178	.00	2350	1050	799	3320	990	37	781	28	198	252
3	135	.00	2180	977	828	2980	971	29	792	28	208	275
4	93	.00	2000	920	835	2910	948	21	791	45	221	278
5	63	.00	1830	868	823	2950	927	19	786	44	235	274
6	46	.09	1670	826	793	2820	918	23	751	34	232	281
7	34	1.5	1520	791	762	2700	925	16	720	28	228	284
8	58	4.8	1360	754	744	2580	927	12	677	23	232	272
9	158	22	1210	713	736	2410	909	31	632	20	252	253
10	216	128	1090	670	727	2210	881	131	587	22	238	236
11	201	248	954	631	711	2020	852	196	539	24	214	212
12	163	334	810	597	699	2020	819	162	484	26	199	185
13	117	352	685	559	769	2150	801	119	424	149	222	157
14	73	339	657	538	1010	2310	767	96	353	197	274	129
15	42	370	653	518	1340	2560	739	86	288	251	308	108
16	26	395	1050	496	3340	2750	707	69	221	263	327	93
17	15	369	1300	493	7340	2750	650	42	171	252	332	81
18	7.7	310	1410	539	8660	2620	581	27	145	228	335	69
19	4.7	252	1510	659	8000	2450	507	17	102	190	337	66
20	2.2	187	1580	707	7060	2250	421	27	80	251	331	65
21	.72	119	1690	716	6140	2060	325	234	64	274	326	72
22	.00	65	1930	725	5350	1900	244	447	50	249	316	84
23	.00	45	2050	735	4670	1750	210	619	29	210	302	84
24	.00	499	2020	732	4100	1620	193	694	17	174	288	79
25	.00	1280	e1880	714	3890	1520	148	739	12	151	282	71
26	.00	1580	e1750	690	3740	1410	120	748	9.9	125	272	62
27	.00	1780	1600	668	3610	1310	97	721	19	142	258	53
28	.00	1930	1480	646	3570	1220	81	644	26	196	245	42
29	.00	2050	1360	646	---	1160	65	564	33	178	238	30
30	.00	2190	1260	698	---	1110	52	544	28	172	229	22
31	.00	---	1180	730	---	1060	---	638	---	181	221	---
TOTAL	1837.32	14850.39	46359	22116	81808	68410	17795	7796	10359.9	4183	8086	4400
MEAN	59.3	495	1495	713	2922	2207	593	251	345	135	261	147
MAX	216	2190	2350	1110	8660	3530	1020	748	792	274	337	284
MIN	.00	.00	653	493	699	1060	52	12	9.9	20	186	22
AC-FT	3640	29460	91950	43870	162300	135700	35300	15460	20550	8300	16040	8730
CFSM	.08	.63	1.90	.91	3.72	2.81	.75	.32	.44	.17	.33	.19
IN.	.09	.70	2.19	1.05	3.87	3.24	.84	.37	.49	.20	.38	.21

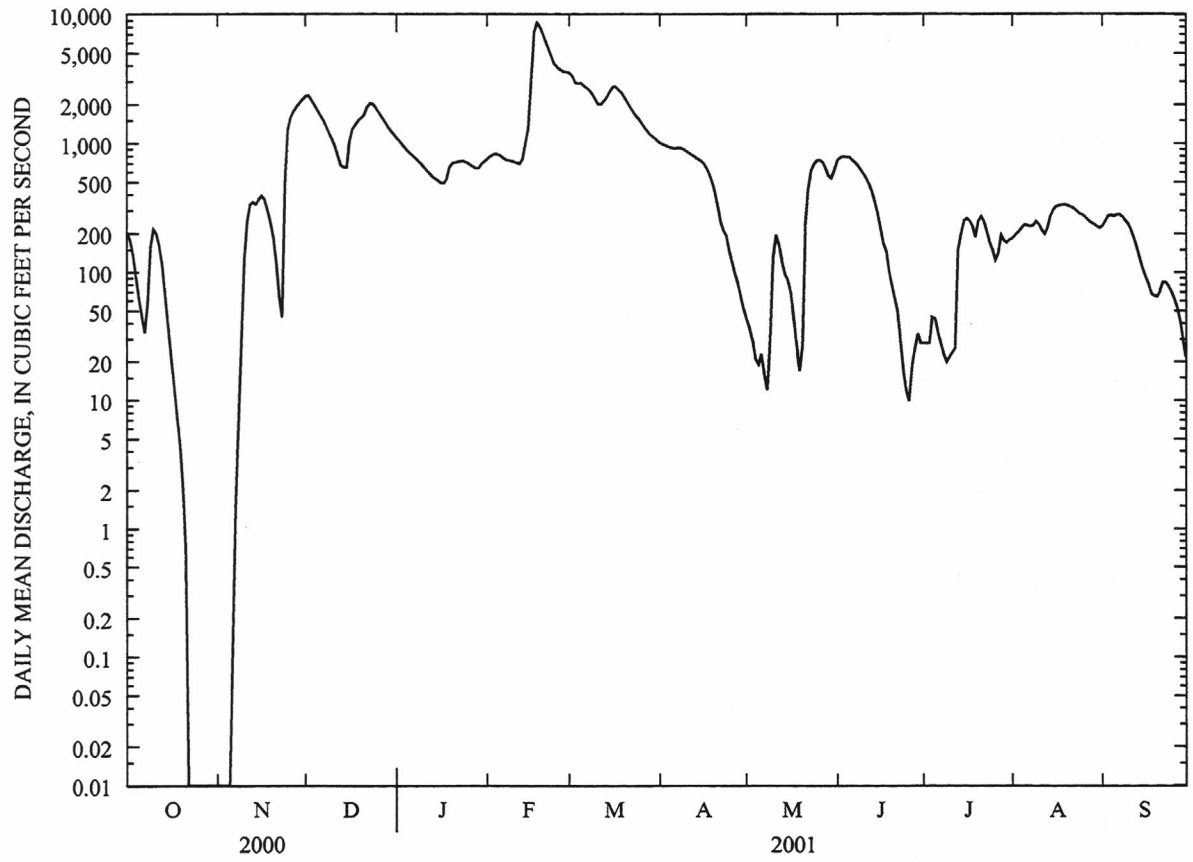
07047950 L'ANGUILLE RIVER AT PALESTINE--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-77, 1998-01, BY WATER YEAR (WY)

MEAN	326	654	1186	1565	2348	2106	1659	1460	586	406	418	585
MAX	1670	5578	4736	6531	7854	5720	4938	6587	3919	1636	1713	2130
(WY)	1950	1958	1962	1950	1950	1975	1973	1953	1974	1967	1966	1950
MIN	1.97	.000	3.71	34.5	136	631	200	44.9	26.0	.065	19.0	66.7
(WY)	1964	1955	1966	1963	1963	1972	1967	1959	1952	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950-77, 1998-01	
ANNUAL TOTAL	196620.71		288000.61			
ANNUAL MEAN	537		789		1102	
HIGHEST ANNUAL MEAN					2592	1950
LOWEST ANNUAL MEAN					455	1963
HIGHEST DAILY MEAN	2350	Dec 2	8660	Feb 18	15500	May 19 1953
LOWEST DAILY MEAN	.00	Oct 22	.00	Oct 22	.00	Jun 27 1952
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 22	.00	Oct 22	.00	Jul 21 1952
MAXIMUM PEAK FLOW			8790	Feb 18	15600	May 20 1953
MAXIMUM PEAK STAGE			25.29	Feb 18	[a]30.92	Feb 3 1950
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	390000		571200		798000	
ANNUAL RUNOFF (CFSM)	.68		1.00		1.40	
ANNUAL RUNOFF (INCHES)	9.31		13.63		19.04	
10 PERCENT EXCEEDS	1590		2050		2840	
50 PERCENT EXCEEDS	216		327		461	
90 PERCENT EXCEEDS	34		23		34	

[a]Backwater from Mississippi River
[e]Estimated



07048480 TOWN BRANCH AT B.R. 62 AT FAYETTEVILLE

LOCATION.--Lat 36°03'25", long 94°10'31", in SW1/4SW1/4 sec.16, T.16 N., R.30 W., Washington County, Hydrologic Unit 11110001, on upstream side of culvert at B.R. U.S. 62 at Fayetteville.

DRAINAGE AREA.--0.86 mi^2.

PERIOD OF RECORD.--September 1996 to current year.

GAGE.-Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	2.6	.85	.85	.71	1.2	.85	.16	1.1	.11	.25	.65
2	.25	1.2	.75	.85	.65	1.1	.91	.64	1.4	.06	.25	.73
3	.25	1.0	.78	.85	.53	1.5	1.6	1.2	.78	.10	.25	.70
4	.26	6.9	.77	1.0	.40	1.3	1.7	1.6	.71	.10	.25	1.4
5	3.1	10	.74	1.2	.40	.78	1.7	1.7	.69	.73	.25	.71
6	1.0	8.2	.80	1.2	.40	.81	1.6	.79	.66	.31	.25	.63
7	.64	1.7	.74	1.0	.40	1.1	1.3	2.5	.69	.25	.42	.52
8	.40	5.3	.75	.90	.40	1.0	.98	.25	.66	.24	1.8	19
9	.40	2.8	.93	.85	3.8	.90	.81	.44	1.4	.30	.53	8.2
10	.40	1.6	.71	.74	.78	.64	2.0	.61	.63	.25	2.4	.60
11	.52	1.2	.83	4.0	.68	1.0	4.2	8.2	.40	.27	6.8	.45
12	.44	2.1	.74	1.3	.65	1.0	.85	1.1	.60	.40	.80	.35
13	.65	1.3	.71	.99	2.4	1.0	1.2	.98	.65	10	.53	.32
14	.65	1.1	.69	.85	24	1.7	.79	1.5	23	.47	.40	.40
15	1.9	1.0	2.8	.79	15	2.1	3.7	1.6	2.1	.16	3.3	.29
16	3.0	.97	4.0	.74	6.1	.83	.25	1.3	.30	8.0	1.2	.25
17	.80	.97	1.2	.74	1.7	.87	.34	14	.28	.70	.74	24
18	.84	.97	.96	.73	1.1	.91	.32	12	.21	.67	.73	7.1
19	.71	.97	.85	.65	.83	1.2	.36	.30	.13	.65	.65	.83
20	.77	.97	.94	.65	1.2	1.1	.21	4.7	.13	.50	.65	.88
21	1.0	.97	.91	.65	1.9	1.1	.12	1.8	5.9	.93	.55	.28
22	1.3	.90	.83	.50	1.2	1.1	.19	.16	.17	.75	.40	.25
23	.86	2.1	.69	.40	12	1.0	.60	.10	.05	.27	.33	.25
24	.85	9.8	.68	.40	25	1.1	.72	.14	.06	.16	.33	.25
25	.76	2.8	.65	.40	2.6	1.1	.74	.30	.05	2.3	.83	.42
26	4.5	1.3	4.4	.41	1.4	.96	1.0	.74	.21	.68	.93	.25
27	2.7	1.1	1.6	.65	1.4	1.1	1.3	1.7	.10	1.8	.67	.25
28	1.1	.97	1.3	.78	.98	.81	1.3	2.6	.11	.85	.75	.25
29	1.1	.97	.91	18	---	.85	1.3	5.2	.14	.60	1.5	.25
30	3.7	.97	.85	1.3	---	.85	.77	13	.20	.40	.72	.25
31	1.1	---	.85	.82	---	.80	---	1.9	---	.31	.65	---
TOTAL	36.29	74.73	35.21	45.19	108.61	32.81	33.71	83.21	43.51	33.32	30.11	70.71
MEAN	1.17	2.49	1.14	1.46	3.88	1.06	1.12	2.68	1.45	1.07	.97	2.36
MAX	4.5	10	4.4	18	25	2.1	4.2	14	23	10	6.8	24
MIN	.25	.90	.65	.40	.40	.64	.12	.10	.05	.06	.25	.25
AC-FT	72	148	70	90	215	65	67	165	86	66	60	140
CFSM	1.36	2.90	1.32	1.70	4.51	1.23	1.31	3.12	1.69	1.25	1.13	2.74
IN.	1.57	3.23	1.52	1.95	4.70	1.42	1.46	3.60	1.88	1.44	1.30	3.06

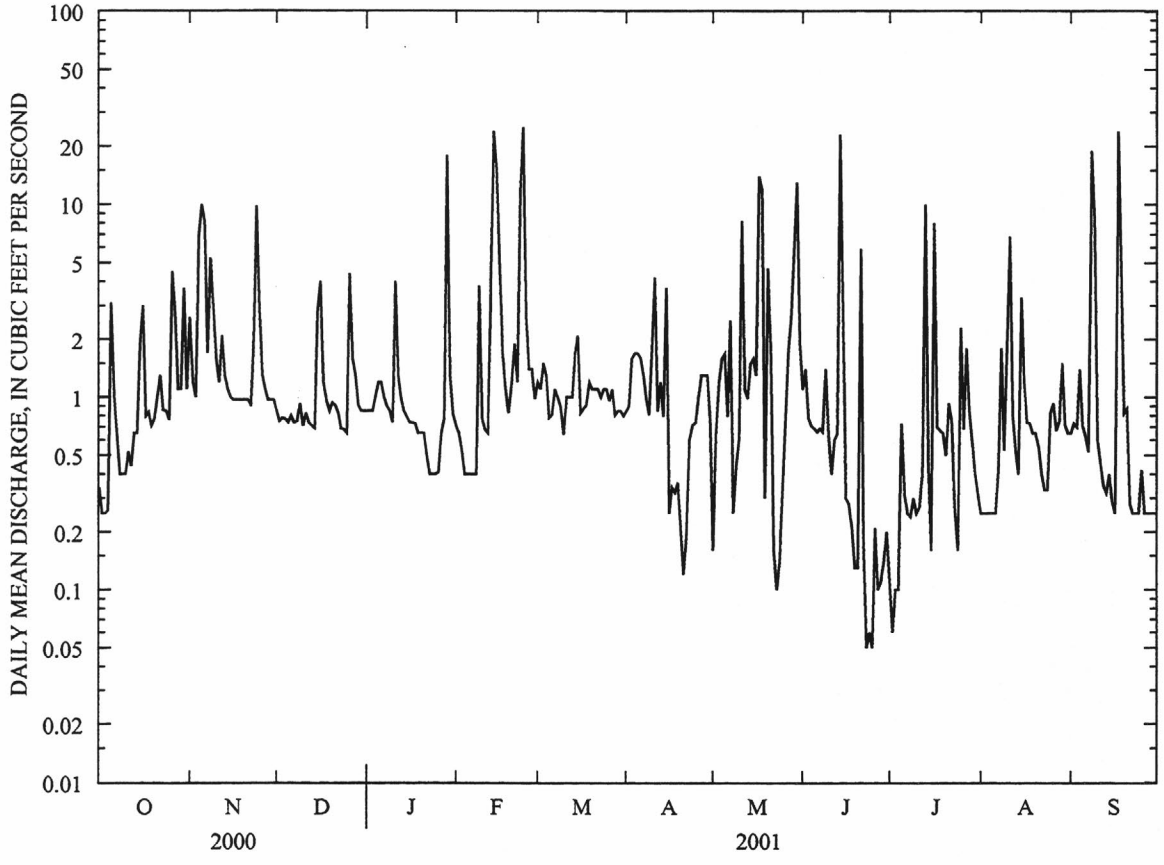
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	1.35	2.24	1.24	1.87	2.30	2.11	1.13	1.96	2.79	.83	.73	1.27
MAX	1.86	5.90	1.66	4.84	3.88	3.99	2.24	3.38	6.52	1.15	1.37	2.36
(WY)	1999	1997	2000	1998	2001	1998	1999	1999	2000	2000	1997	2001
MIN	.51	.38	1.01	.18	1.25	.98	.50	.90	.86	.50	.28	.71
(WY)	2000	2000	1999	1997	2000	2000	2000	1997	1998	1999	1998	1999

07048480 TOWN BRANCH AT B.R. 62 AT FAYETTEVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	608.83		627.41			
ANNUAL MEAN	1.66		1.72		1.64	
HIGHEST ANNUAL MEAN					1.79	1999
LOWEST ANNUAL MEAN					1.48	2000
HIGHEST DAILY MEAN	47	Jun 17	25	Feb 24	77	Sep 26 1996
LOWEST DAILY MEAN	.05	Apr 24	.05	Jun 23	.00	Jan 10 1997
ANNUAL SEVEN-DAY MINIMUM	.06	Apr 23	.10	Jun 23	.00	Jan 10 1997
MAXIMUM PEAK FLOW			[a]499	May 17	[a]1440	Jun 30 1999
MAXIMUM PEAK STAGE			5.61	May 17	9.11	Jun 30 1999
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	1210		1240		1190	
ANNUAL RUNOFF (CFSM)	1.93		2.00		1.91	
ANNUAL RUNOFF (INCHES)	26.34		27.14		25.99	
10 PERCENT EXCEEDS	2.8		3.0		3.2	
50 PERCENT EXCEEDS	.75		.83		.65	
90 PERCENT EXCEEDS	.25		.25		.13	

[a]From rating extended above 100 ft^3/s on basis of culvert Type IV flow computations



07048490 TOWN BRANCH TRIBUTARY AT HWY 16 AT FAYETTEVILLE

LOCATION.--Lat 36°02'54", long 94°09'44", in SE1/4NE1/4 sec.21, T.16 N., R.30 W., Washington County, Hydrologic Unit 11110001, on upstream side of culvert at State Highway 16 at Fayetteville.

DRAINAGE AREA.--1.36 mi².

PERIOD OF RECORD.--October 1996 to current year.

GAGE.-Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	2.6	1.0	1.2	1.2	1.4	.63	.27	.94	.48	1.2	.15
2	.29	1.0	1.0	1.3	1.1	1.3	.66	.27	1.3	.42	.89	.13
3	.33	.85	.97	1.7	.97	1.2	.66	.27	.80	.40	.88	.15
4	.34	6.3	.97	1.8	.96	1.1	.66	.27	.75	.39	.93	.36
5	3.7	13	.96	1.8	.89	1.1	.84	.45	.69	1.2	.93	.31
6	.80	7.6	1.1	1.8	.88	.98	.55	.73	.62	.46	.98	.18
7	.33	1.6	.93	1.6	.88	.96	.58	3.3	.61	.42	1.1	.20
8	.30	5.1	.94	1.4	.90	.97	.56	.54	.60	.37	2.2	28
9	.30	2.4	1.3	1.3	5.4	1.2	.55	.53	.81	.39	.86	9.1
10	.28	1.3	.93	1.2	1.0	.88	.65	.54	.60	.41	4.0	.63
11	.30	1.1	1.1	5.8	.93	1.2	4.0	10	.55	.43	10	.41
12	.31	2.3	.89	2.1	.89	1.0	.96	.73	.56	.38	.56	.36
13	.29	1.1	1.3	1.9	3.1	.80	.88	.58	.52	13	.31	.33
14	.30	.97	1.3	1.7	27	1.1	.88	.53	26	.59	.26	.33
15	1.5	.92	3.4	1.5	15	1.9	5.8	.51	3.0	.49	3.3	.31
16	2.7	.93	4.5	1.3	6.9	.85	.86	.51	.82	10	1.0	.31
17	.40	.88	1.7	1.4	2.4	.80	.79	21	.67	.69	.26	33
18	.38	.82	1.4	1.3	1.7	.79	.73	17	.59	.59	.25	8.9
19	.36	.80	1.4	1.2	1.4	.73	.71	1.4	.48	.55	.22	1.0
20	.36	.96	1.5	1.3	1.2	.73	.66	5.7	.45	.49	.19	.83
21	.56	.80	1.1	1.1	1.3	.76	.61	3.0	7.4	.46	.21	.60
22	1.0	.82	1.4	1.1	1.1	.75	.53	1.1	.74	.45	.20	.51
23	.42	2.5	1.2	1.1	14	.76	.44	.97	.60	.44	.18	.49
24	.44	9.4	1.1	1.1	35	.74	.41	.85	.51	.39	.13	.44
25	.46	2.8	1.1	1.0	3.8	.73	.39	.77	.42	2.7	.13	.44
26	6.1	1.5	6.2	1.1	2.2	.73	.26	.67	.68	.43	.59	.44
27	2.4	1.8	2.1	1.5	1.8	.72	.27	.73	.49	1.9	.11	.61
28	.72	1.1	1.7	1.5	1.5	.73	.26	.79	.48	1.6	.21	.37
29	.65	1.0	1.3	18	---	.75	.26	2.9	.53	.50	1.8	.36
30	3.7	1.0	1.2	2.1	---	.74	.26	9.3	.52	.64	.27	.35
31	.68	---	1.1	1.4	---	.73	---	1.2	---	.99	.17	---
TOTAL	30.98	75.25	48.09	65.6	135.40	29.13	26.30	87.41	53.73	42.65	34.32	89.60
MEAN	1.00	2.51	1.55	2.12	4.84	.94	.88	2.82	1.79	1.38	1.11	2.99
MAX	6.1	13	6.2	18	35	1.9	5.8	21	26	13	10	33
MIN	.28	.80	.89	1.0	.88	.72	.26	.27	.42	.37	.11	.13
AC-FT	61	149	95	130	269	58	52	173	107	85	68	178
CFSM	.73	1.84	1.14	1.56	3.56	.69	.64	2.07	1.32	1.01	.81	2.20
IN.	.85	2.06	1.32	1.79	3.70	.80	.72	2.39	1.47	1.17	.94	2.45

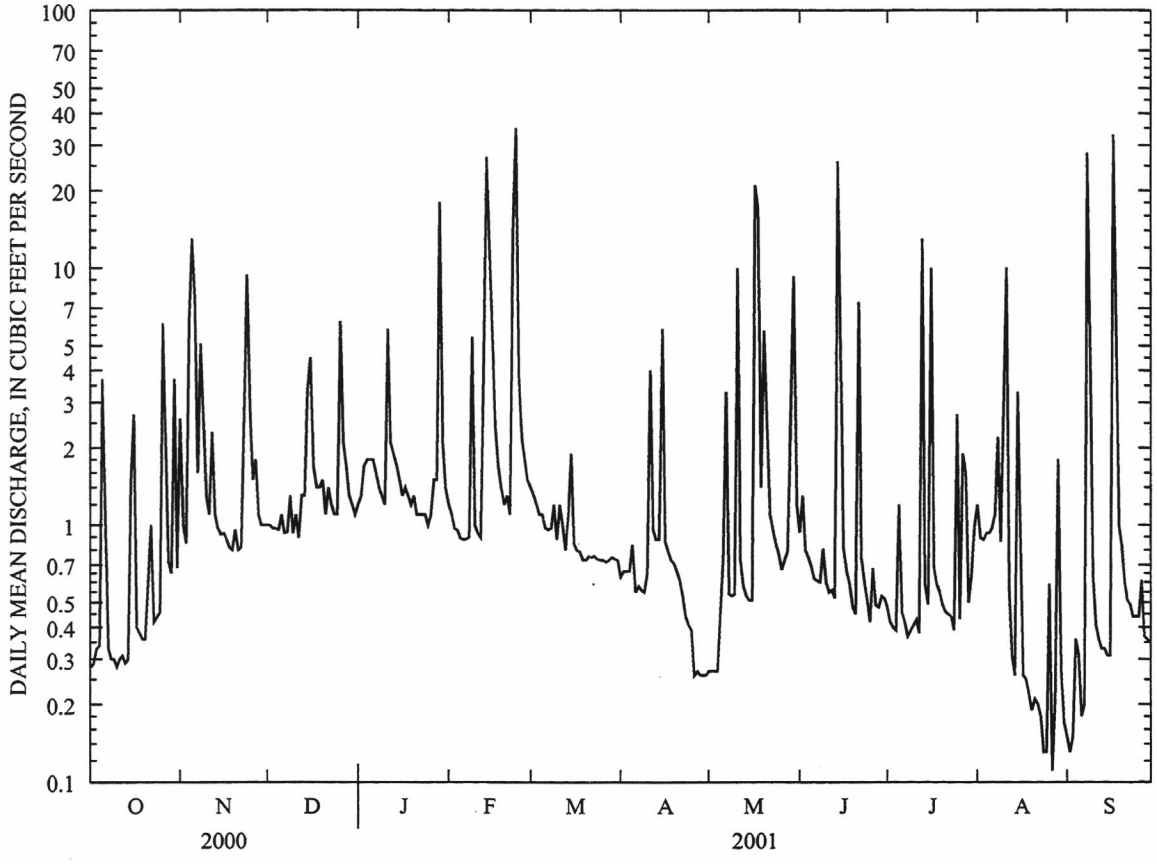
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.61	2.92	1.49	2.70	3.29	2.49	1.46	2.56	3.46	1.27	1.07	1.88
MAX	2.50	7.69	1.69	7.60	4.84	5.97	2.12	5.09	7.40	1.75	2.34	2.99
(WY)	1998	1997	1999	1998	2001	1998	1999	1999	2000	1999	1997	2001
MIN	.69	.48	1.37	.68	.92	.94	.86	1.05	.75	.69	.30	1.02
(WY)	2000	2000	1998	2000	2000	2001	2000	1997	1998	1998	2000	1998

07048490 TOWN BRANCH TRIBUTARY AT HWY 16 AT FAYETTEVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	649.44		718.46			
ANNUAL MEAN	1.77		1.97		2.17	
HIGHEST ANNUAL MEAN					2.54	1997
LOWEST ANNUAL MEAN					1.57	2000
HIGHEST DAILY MEAN	56	Jun 17	35	Feb 24	79	Jan 4 1998
LOWEST DAILY MEAN	.08	Jan 13	.11	Aug 27	.08	Oct 18 1996
ANNUAL SEVEN-DAY MINIMUM	.08	Jan 11	.18	Aug 19	.08	Jan 11 2000
MAXIMUM PEAK FLOW			[a]771	May 17	[a]1070	Jun 30 1999
MAXIMUM PEAK STAGE			6.05	May 17	7.58	Jun 30 1999
INSTANTANEOUS LOW FLOW			.00	Aug 28	.00	Aug 28 2001
ANNUAL RUNOFF (AC-FT)	1290		1430		1570	
ANNUAL RUNOFF (CFSM)	1.30		1.45		1.60	
ANNUAL RUNOFF (INCHES)	17.76		19.65		21.69	
10 PERCENT EXCEEDS	3.0		3.5		4.4	
50 PERCENT EXCEEDS	.51		.88		.77	
90 PERCENT EXCEEDS	.19		.31		.28	

[a]From rating extended above 100 ft^3/s on basis of culvert Type 1 flow computations



07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE

LOCATION.--Lat 36°03'00", long 94°04'42", in NW1/4 sec.20, T.16 N., R.29 W., Washington County, Hydrologic Unit 11010001, at bridge on Mally Wagon Road, 0.5 mi north of State Highway 16, 1.4 mi upstream from White River, and 4.3 mi east of Fayetteville.

PERIOD OF RECORD.--October 1973 to September 1974, 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT											
12...	1200	80513	80513	12	737	8.6	88	7.5	269	14.7	130
JAN											
08...	0930	81213	80513	142	735	6.5	49	7.9	206	2.0	78
JUL											
18...	0700	81213	80513	74	732	4.6	59	7.6	150	25.5	61
SEP											
04...	1000	81213	80513	7.5	733	4.4	55	7.7	276	25.1	110

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT									
12...	41.0	5.50	2.90	.4	9.8	14	8.1	46.0	188
JAN									
08...	25.0	3.90	1.40	.3	6.6	15	7.8	29.0	121
JUL									
18..	20.0	2.60	2.90	.2	3.2	10	2.4	13.0	102
SEP									
04...	35.0	5.00	3.20	.3	8.2	14	7.1	36.0	159

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT								
12...	.020	.31	.03	.230	<.010	.29	.54	--
JAN								
08...	.030	.24	.04	1.10	<.010	.21	1.3	--
JUL								
18...	.050	1.2	.06	.640	<.010	1.1	1.8	.061
SEP								
04...	.030	.40	.04	.110	<.010	.37	.51	--

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
12...	<.020	<.010	<.020	E12	26	48	62	86	2.9
JAN									
08...	<.020	<.010	.030	66	76	130	97	50	19
JUL									
18...	<.020	.020	.250	300	E1300	E1300	99	313	63
SEP									
04...	<.020	<.010	<.020	46	110	100	97	55	1.1

Remark codes used in this report:
< -- Less than
E -- Estimated value

07048600 WHITE RIVER NEAR FAYETTEVILLE

LOCATION.--Lat 36°04'23", long 94°04'52", in NE1/4SW1/4 sec.8, T.16 N., R.29 W., Washington County, Hydrologic Unit 11010001, on left bank at downstream side of bridge on county road, 0.6 mi downstream from West Fork White River, 0.8 mi downstream from Lake Sequoyah Dam on White River, 4.3 mi east of Fayetteville and at mile 684.0.

DRAINAGE AREA.--400 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1994, October 1998 to current year. Annual maximum, water years 1995-98.

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

GAGE.-Water-stage recorder. Datum of gage is 1,138.25 ft above sea level.

REMARKS.--Records good except estimated daily discharges, which are poor. Some regulation at low flow by Lake Sequoyah Dam 0.8 mi upstream. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	33	409	409	896	1090	177	119	565	409	23	16
2	15	67	364	366	761	935	168	107	421	166	19	16
3	17	72	324	328	675	818	161	91	316	95	17	15
4	21	96	291	318	610	725	154	84	249	65	16	16
5	26	113	267	341	552	635	147	78	197	57	15	15
6	33	2820	249	430	506	562	146	73	158	49	13	16
7	17	1450	e228	528	470	511	123	252	128	38	15	16
8	12	890	e222	554	443	463	125	380	109	32	30	57
9	14	1210	e217	521	1140	425	116	265	95	29	33	457
10	13	843	e208	480	1250	384	117	206	93	25	20	180
11	14	648	e207	719	928	357	175	215	73	23	113	66
12	14	546	e213	840	797	343	305	252	58	20	71	37
13	3.4	537	e218	754	833	320	262	230	50	524	28	26
14	5.8	477	e222	760	1710	294	229	176	102	274	23	24
15	14	413	e228	722	e8010	311	389	144	1010	103	20	21
16	34	363	536	652	e6000	403	443	117	249	796	30	19
17	20	321	562	604	e3080	413	367	105	127	523	20	548
18	13	286	426	570	e2950	383	328	943	83	206	19	740
19	13	257	350	525	e2600	362	306	263	62	119	18	844
20	11	230	309	469	e2400	340	287	247	48	81	17	331
21	11	209	286	429	e2300	320	273	410	152	60	16	206
22	11	191	247	397	e2210	302	253	377	157	48	16	150
23	19	206	238	370	e2520	287	227	263	78	39	16	108
24	14	460	222	351	7330	265	251	197	54	34	16	81
25	13	1800	e226	329	4360	247	225	156	43	31	16	62
26	18	1060	e235	309	1990	228	200	128	146	34	17	51
27	33	790	e722	298	1520	214	181	109	283	28	19	44
28	58	643	e690	301	1300	204	165	97	219	32	17	38
29	42	543	654	e1910	---	199	147	94	83	42	17	33
30	43	466	552	1730	---	198	132	663	58	37	19	28
31	36	---	472	1170	---	187	---	975	---	26	18	---
TOTAL	618.2	18040	10594	18484	60141	12725	6579	7816	5466	4045	747	4261
MEAN	19.9	601	342	596	2148	410	219	252	182	130	24.1	142
MAX	58	2820	722	1910	8010	1090	443	975	1010	796	113	844
MIN	3.4	33	207	298	443	187	116	73	43	20	13	15
AC-FT	1230	35780	21010	36660	119300	25240	13050	15500	10840	8020	1480	8450
CFSM	.05	1.50	.85	1.49	5.37	1.03	.55	.63	.46	.33	.06	.36
IN.	.06	1.68	.99	1.72	5.59	1.18	.61	.73	.51	.38	.07	.40

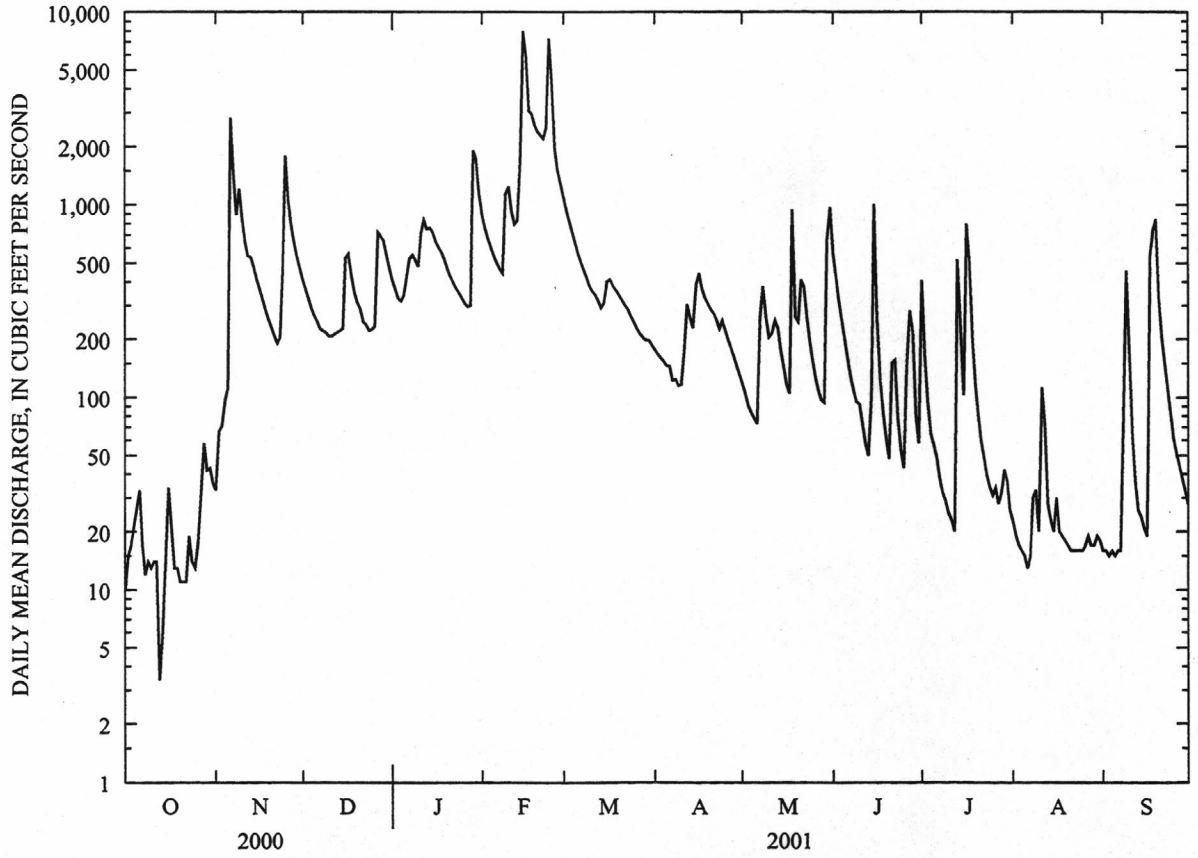
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964-94, 1999-01, BY WATER YEAR (WY)

MEAN	255	645	700	507	809	1071	1072	836	465	80.3	39.0	127
MAX	2353	2808	2365	1287	2438	2828	2745	3615	2383	335	330	1346
(WY)	1971	1986	1988	1991	1989	1973	1973	1990	2000	1979	1981	1974
MIN	1.86	2.13	2.75	5.14	7.23	97.2	219	40.3	18.6	3.75	3.02	2.80
(WY)	1990	1990	1990	1964	1964	1967	2001	1977	1977	1970	1969	1969

07048600 WHITE RIVER NEAR FAYETTEVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964-94, 1999-01	
ANNUAL TOTAL	167347.29		149516.2			
ANNUAL MEAN	457		410		548	
HIGHEST ANNUAL MEAN					1043	1973
LOWEST ANNUAL MEAN					158	1980
HIGHEST DAILY MEAN	15300	Jun 21	8010	Feb 15	48000	Nov 19 1985
LOWEST DAILY MEAN	.24	Sep 18	3.4	Oct 13	.12	Oct 2 1982
ANNUAL SEVEN-DAY MINIMUM	.52	Sep 14	11	Oct 8	.28	Oct 18 1989
MAXIMUM PEAK FLOW			10900	Feb 15	[a]81600	Nov 19 1985
MAXIMUM PEAK STAGE			14.90	Feb 15	30.45	Nov 19 1985
ANNUAL RUNOFF (AC-FT)	331900		296600		396700	
ANNUAL RUNOFF (CFSM)	1.14		1.02		1.37	
ANNUAL RUNOFF (INCHES)	15.56		13.91		18.60	
10 PERCENT EXCEEDS	784		836		1300	
50 PERCENT EXCEEDS	197		213		172	
90 PERCENT EXCEEDS	3.7		17		6.4	

[a]From rating curve extended above 35,400 ft^3/s
[e]Estimated



07048600 WHITE RIVER NEAR FAYETTEVILLE--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1958 (Aug), October 1975 to September 1981, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
OCT									
12...	1330	80513	80513	34	--	738	9.2	99	7.5
JAN									
08...	1100	81213	80513	500	--	736	13.6	104	8.0
29...	1100	81213	80513	2650	--	722	11.6	100	7.5
29...	1420	81213	80513	2370	--	720	11.8	102	7.1
30...	0745	81213	80513	1950	--	722	8.1	69	7.2
FEB									
14...	1930	81213	80513	3530	--	747	10.8	97	7.8
15...	1315	81213	80513	11200	--	749	11.5	103	7.8
17...	0715	81213	80513	4220	--	756	12.1	95	6.6
MAR									
13...	0930	81213	80513	320	--	731	9.9	92	8.1
APR									
04...	1115	81213	80513	153	9.8	742	9.9	102	6.7
17...	0845	81213	80513	365	11	747	8.2	85	7.7
MAY									
01...	1130	81213	80513	112	8.6	748	8.7	100	7.4
15...	1330	81213	80513	132	8.0	746	8.4	105	8.2
16...	1400	81213	80513	106	--	726	8.2	104	8.2
30...	1400	81213	80513	572	31	740	7.5	86	7.9
30...	1430	81213	80513	591	--	740	7.5	86	7.9
JUN									
12...	1315	81213	80513	57	3.6	734	7.4	101	7.8
15...	1015	81213	80513	1120	--	731	6.7	86	8.1
26...	0815	81213	80513	33	7.2	743	5.2	62	8.2
JUL									
09...	1345	81213	80513	26	6.9	745	5.5	77	7.6
13...	1400	81213	80513	866	--	734	6.2	83	7.5
18...	0900	81213	80513	212	--	731	5.5	72	7.6
23...	1100	81213	80513	38	10	737	5.0	69	8.0
AUG									
06...	1415	81213	80513	12	1.1	742	6.4	88	7.9
21...	1330	81213	80513	15	6.2	742	6.0	80	7.5
SEP									
04...	1100	81213	80513	16	--	733	4.6	58	7.6
05...	1215	81213	80513	13	4.8	742	6.0	78	7.9
17...	1230	81213	80513	327	76	742	7.0	81	7.6

DATE	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT									
12...	201	17.4	100	33.0	4.40	2.30	.3	6.4	12
JAN									
08...	133	2.6	54	17.0	2.70	1.20	.2	4.2	14
29...	134	6.7	50	16.0	2.40	1.60	.2	4.0	14
29...	121	6.8	47	15.0	2.20	1.70	.2	3.4	13
30...	91	6.4	35	11.0	1.80	1.60	.2	2.3	12
FEB									
14...	124	9.9	46	15.0	2.10	1.70	.2	3.0	12
15...	67	9.7	24	7.40	1.30	1.40	.2	1.9	14
17...	60	4.9	22	6.60	1.30	1.00	.1	1.5	12
MAR									
13...	102	10.3	38	12.0	2.00	1.20	.2	2.6	12
APR									
04...	103	15.6	41	13.0	2.00	--	--	--	--
17...	109	16.1	44	14.0	2.10	--	--	--	--
MAY									
01...	89	21.5	35	11.0	1.80	--	--	--	--
15...	74	25.4	29	9.00	1.50	--	--	--	--
16...	72	24.7	29	9.00	1.50	1.10	.1	1.8	12
30...	169	20.5	68	22.0	3.10	--	--	--	--
30...	169	20.5	68	22.0	3.10	1.90	.2	4.4	12
JUN									
12...	114	29.3	95	35.0	1.80	--	--	--	--
15...	114	25.3	49	16.0	2.30	2.10	.2	3.0	11
26...	170	22.6	73	24.0	3.10	--	--	--	--
JUL									
09...	173	32.0	73	24.0	3.10	--	--	--	--
13...	146	28.9	61	20.0	2.60	2.50	.2	3.3	10
18...	124	26.6	54	18.0	2.20	3.10	.2	2.6	9
23...	160	31.0	66	22.0	2.80	--	--	--	--
AUG									
06...	216	30.6	100	34.0	4.80	--	--	--	--
21...	186	28.5	76	25.0	3.40	--	--	--	--
SEP									
04...	165	25.2	70	23.0	3.10	2.80	.2	3.5	9
05...	160	26.8	68	22.0	3.10	--	--	--	--
17...	160	21.1	69	23.0	2.90	--	--	--	--

07048600 WHITE RIVER NEAR FAYETTEVILLE--CONTINUED

DATE	TIME	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT									
12...	1330	--	5.1	--	28.0	--	--	140	--
JAN									
08...	1100	--	5.7	--	16.0	--	--	87	--
29...	1100	--	4.7	--	16.0	--	--	76	--
29...	1420	--	4.3	--	13.0	--	--	72	--
30...	0745	--	3.3	--	8.8	--	--	63	--
FEB									
14...	1930	--	3.4	--	12.0	--	--	82	--
15...	1315	--	2.4	--	5.8	--	--	51	--
17...	0715	--	2.0	--	5.4	--	--	47	--
MAR									
13...	0930	--	3.1	--	9.7	--	--	58	--
APR									
04...	1115	32	3.0	<.1	10.0	--	--	61	--
17...	0845	35	2.9	<.1	9.8	--	--	65	--
MAY									
01...	1130	31	2.5	<.1	7.1	--	--	56	--
15...	1330	27	2.0	<.1	5.9	--	--	47	--
16...	1400	--	2.0	--	5.8	--	--	44	--
30...	1400	51	4.0	.1	20.0	--	--	100	--
30...	1430	51	4.0	--	20.0	.14	160	100	87
JUN									
12...	1315	39	8.0	<.1	5.3	--	--	128	--
15...	1015	--	2.8	--	11.0	--	--	75	--
26...	0815	60	3.4	<.1	17.0	--	--	100	--
JUL									
09...	1345	58	3.5	<.1	15.0	--	--	101	--
13...	1400	--	3.0	--	11.0	--	--	84	--
18...	0900	--	2.5	--	8.2	--	--	97	--
23...	1100	56	3.0	<.1	13.0	--	--	132	--
AUG									
06...	1415	73	4.7	.1	40.0	--	--	155	--
21...	1330	61	4.1	.1	13.0	--	--	113	--
SEP									
04...	1100	--	3.4	--	6.7	--	--	103	--
05...	1215	62	3.6	.1	7.1	--	--	99	--
17...	1230	52	3.6	.1	13.0	--	--	99	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT								
12...	.140	.32	.18	--	--	--	<.010	.18
JAN								
08...	.020	<.20	.03	--	--	--	<.010	--
29...	.017	.61	.02	--	--	--	<.010	.59
29...	.042	1.2	.05	1.09	4.82	.033	.010	1.2
30...	.018	<.20	.02	--	--	--	<.010	--
FEB								
14...	.012	1.8	.02	.870	3.85	.033	.010	1.8
15...	.014	1.1	.02	--	--	--	<.010	1.1
17...	.010	.38	.01	--	--	--	<.010	.37
MAR								
13...	.012	.28	.02	--	--	--	<.010	.27
APR								
04...	<.010	<.20	--	--	--	--	<.010	--
17...	.026	.27	.03	--	--	--	<.010	.24
MAY								
01...	.028	.29	.04	--	--	--	<.010	.26
15...	.032	.47	.04	--	--	--	<.010	.44
16...	<.010	.30	--	--	--	--	<.010	--
30...	.056	.55	.07	--	--	--	<.010	.49
30...	.056	.59	.07	--	--	--	<.010	.53
JUN								
12...	.038	.29	.05	--	--	--	<.010	.25
15...	.049	.69	.06	--	--	--	<.010	.64
26...	.050	.42	.06	--	--	--	<.010	.37
JUL								
09...	.050	.50	.06	--	--	--	<.010	.45
13...	.026	.70	.03	--	--	--	<.010	.67
18...	.038	.83	.05	.420	1.86	.033	.010	.79
23...	.054	.49	.07	--	--	--	<.010	.44
AUG								
06...	.040	.30	.05	--	--	--	<.010	.26
21...	.110	.50	.14	.380	1.68	.066	.020	.39
SEP								
04...	.130	.60	.17	.290	1.28	.066	.020	.47
05...	.080	.50	.10	.260	1.15	.066	.020	.42
17...	.100	1.1	.13	--	--	--	<.010	1.0

07048600 WHITE RIVER NEAR FAYETTEVILLE--CONTINUED

DATE	TIME	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	CARBON ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
12...	1330	.58	--	<.020	<.010	<.020	--	--	--
JAN									
08...	1100	--	--	<.020	<.010	.030	--	--	--
29...	1100	1.6	.061	.040	.020	.280	--	--	--
29...	1420	2.3	.061	.020	.020	.220	--	--	--
30...	0745	--	.092	.030	.030	.110	--	--	--
FEB									
14...	1930	2.7	.061	<.020	.020	.390	--	--	--
15...	1315	2.1	--	<.020	<.010	.220	--	--	--
17...	0715	1.7	.031	<.020	.010	.030	--	--	--
MAR									
13...	0930	1.6	--	<.020	<.010	<.020	--	--	--
APR									
04...	1115	--	--	<.020	<.010	<.020	12	1.6	2.1
17...	0845	.72	--	<.020	<.010	.020	1.5	1.6	1.8
MAY									
01...	1130	.52	--	<.020	<.010	<.020	2.6	.80	1.1
15...	1330	.71	--	<.020	<.010	.020	.3	1.9	1.5
16...	1400	.51	--	<.020	<.010	<.020	--	--	--
30...	1400	.87	--	<.020	<.010	.050	1.2	2.9	2.6
30...	1430	.91	--	<.020	<.010	<.020	1.2	--	--
JUN									
12...	1315	.41	.061	<.020	.020	.020	1.1	2.6	2.7
15...	1015	.87	.031	<.020	.010	.090	--	--	--
26...	0815	.62	--	<.020	<.010	.030	.8	3.3	2.4
JUL									
09...	1345	.68	--	<.020	<.010	<.020	2.8	4.3	3.1
13...	1400	.79	--	<.020	<.010	.060	--	--	--
18...	0900	1.3	.031	<.020	.010	.130	--	--	--
23...	1100	.73	--	<.020	<.010	.030	1.1	2.9	2.4
AUG									
06...	1415	.45	--	<.020	<.010	<.020	1.9	3.2	2.4
21...	1330	.90	--	<.020	<.010	.030	3.6	3.8	3.9
SEP									
04...	1100	.91	--	<.020	<.010	<.020	--	--	--
05...	1215	.78	--	<.020	<.010	<.020	1.4	4.3	3.8
17...	1230	1.5	.153	.050	.050	.220	2.3	4.6	3.9

DATE	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
12...	46	41	E11	--	--	79	57	5.2
JAN								
08...	E14	E15	64	--	--	99	28	38
29...	E1800	2400	5600	--	--	84	480	3430
29...	E2100	2700	9000	--	--	84	396	2530
30...	800	E630	21000	--	--	95	89	469
FEB								
14...	E8900	E8700	E13000	--	--	92	712	6790
15...	2900	5100	8300	--	--	89	280	8470
17...	670	E680	1400	--	--	89	50	570
MAR								
13...	E13	20	29	--	--	94	29	25
APR								
04...	--	E6	--	530	160	94	28	12
17...	--	94	--	520	140	100	24	24
MAY								
01...	--	E13	--	400	120	90	25	7.6
15...	--	E23	--	490	160	85	24	8.6
16...	24	20	94	--	--	55	38	11
30...	--	1700	--	1200	300	94	72	111
30...	960	1700	3600	--	--	94	72	115
JUN								
12...	--	E20	--	190	58	94	20	3.1
15...	2500	870	3100	--	--	98	70	212
26...	--	63	--	520	200	91	32	2.9
JUL								
09...	--	27	--	390	208	93	31	2.2
13...	1000	2000	4600	--	--	88	64	150
18...	470	540	640	--	--	98	127	73
23...	--	66	--	560	190	94	33	3.4
AUG								
06...	--	S900	--	230	149	97	33	1.1
21...	--	42	--	550	612	95	33	1.3
SEP								
04...	E7	22	49	--	--	97	28	1.2
05...	--	140	--	340	554	94	22	.77
17...	--	2500	--	2850	1120	90	148	131

Remark codes used in this report:
< -- Less than
E -- Estimated value
S -- Most probable value

07048700 WHITE RIVER NEAR GOSHEN

LOCATION.--Lat 36°06'21", long 94°00'41", in NE1/4NW1/4 sec.31, T.17 N., R.28 W., Washington County, Hydrologic Unit 11010001, at bridge on State Highway 45, 0.2 mi upstream from Richland Creek, and 1.2 mi west of Goshen.

DRAINAGE AREA.--412 mi².

PERIOD OF RECORD.--1963, 1969-1995, April 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE MM OF HG) (00025)	OXYGEN, DISSOLVED MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JAN												
10...	1440	80513	80513	6.0	2.90	--	746	9.8	111	7.7	344	20.6
APR												
19...	1157	80513	80513	8.0	.000	--	738	9.0	94	7.5	103	16.1
19...	1201	80513	80513	8.0	2.00	--	738	8.9	94	7.5	103	16.1
19...	1202	80513	80513	8.0	3.00	--	738	8.9	93	7.4	103	16.0
19...	1203	80513	80513	8.0	4.00	--	738	8.9	93	7.4	103	16.0
19...	1204	80513	80513	8.0	5.00	--	738	8.8	93	7.3	103	16.1
19...	1205	81213	80513	8.0	6.00	.67	738	8.9	93	7.2	103	16.1
19...	1206	80513	80513	8.0	7.00	--	738	8.8	93	7.3	103	16.1
19...	1207	80513	80513	8.0	8.00	--	738	8.8	93	7.2	103	16.1
JUN												
01...	1311	80513	80513	7.7	.20	--	737	9.0	103	7.5	113	20.0
01...	1312	80513	80513	7.7	1.90	--	737	9.0	103	7.5	113	20.0
01...	1313	81213	80513	7.7	4.20	.18	737	9.0	102	7.4	113	20.0
01...	1314	80513	80513	7.7	6.00	--	737	9.0	102	7.4	113	20.0
01...	1315	80513	80513	7.7	7.70	--	737	9.0	102	7.4	113	20.0
12...	1030	80513	80513	8.0	.20	--	734	8.3	111	6.8	182	27.9
12...	1031	80513	80513	8.0	1.10	--	734	8.0	105	6.8	182	27.7
12...	1032	80513	80513	8.0	2.00	--	734	7.9	104	6.8	182	27.6
12...	1033	81213	80513	8.0	4.10	.61	734	7.8	102	7.8	182	27.3
12...	1034	80513	80513	8.0	6.10	--	734	6.7	85	6.9	185	25.5
12...	1035	80513	80513	8.0	8.20	--	734	2.7	34	6.8	192	24.9
JUL												
10...	1410	80020	80513	8.0	4.00	--	749	8.3	109	7.7	242	28.4
23...	1259	80513	80513	6.0	--	--	738	8.5	122	7.6	166	32.9
23...	1300	80513	80513	6.0	1.00	--	738	8.4	120	7.7	166	32.5
23...	1301	80513	80513	6.0	2.00	--	738	7.6	108	7.6	168	32.2
23...	1302	81213	80513	6.0	3.00	.18	738	5.8	83	7.6	166	32.5
23...	1303	80513	80513	6.0	4.00	--	738	4.6	64	7.2	188	30.5
23...	1304	80513	80513	6.0	5.00	--	738	4.1	56	7.1	197	30.1
23...	1305	80513	80513	6.0	5.90	--	738	3.3	45	7.0	201	29.9
AUG												
07...	1147	80513	80513	5.9	.20	--	741	6.2	85	7.7	230	29.7
07...	1148	80513	80513	5.9	1.10	--	741	5.9	80	7.6	230	29.5
07...	1149	80513	80513	5.9	2.10	--	741	5.6	76	7.5	229	29.1
07...	1150	80020	80513	5.9	3.00	.15	741	5.0	66	7.4	230	28.6
07...	1151	80513	80513	5.9	4.00	--	741	4.2	56	7.4	232	28.5
07...	1152	80513	80513	5.9	5.00	--	741	3.2	42	7.3	234	28.4
07...	1153	80513	80513	5.9	5.90	--	741	1.7	23	7.3	238	28.3
23...	1345	80513	80513	6.0	1.00	--	741	7.4	99	7.6	394	28.3
23...	1346	80513	80513	6.0	2.00	--	741	7.0	93	7.5	392	28.0
23...	1347	81213	80513	6.0	3.00	.30	741	6.3	82	7.5	380	27.2
23...	1348	80513	80513	6.0	4.00	--	741	5.8	75	7.4	382	27.1
23...	1349	80513	80513	6.0	5.00	--	741	5.5	72	7.3	382	27.1
23...	1350	80513	80513	6.0	6.00	--	741	5.4	70	7.3	384	27.0
SEP												
05...	1017	80513	80513	6.0	.30	--	742	8.9	109	6.8	372	24.2
05...	1018	80513	80513	6.0	.90	--	742	7.9	101	6.9	372	26.1
05...	1019	80513	80513	6.0	2.00	--	742	7.8	99	7.0	372	26.1
05...	1020	81213	80513	6.0	3.00	.67	742	7.7	98	7.0	371	26.1
05...	1021	80513	80513	6.0	4.00	--	742	7.7	97	7.0	371	26.1
05...	1022	80513	80513	6.0	5.00	--	742	7.7	97	7.0	371	26.1
05...	1023	80513	80513	6.0	6.00	--	742	7.5	96	7.0	372	26.0
18...	0717	80513	80513	7.0	.000	--	736	6.6	79	7.5	166	22.3
18...	0718	80513	80513	7.0	1.00	--	736	7.5	89	6.6	166	22.3
18...	0720	81213	80513	7.5	3.00	.18	737	7.5	89	6.6	167	22.3
18...	0723	80513	80513	7.0	5.00	--	736	6.4	77	7.5	167	22.3
18...	0725	80513	80513	7.0	7.00	--	736	6.4	76	7.5	167	22.3

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
APR											
19...	1205	6.00	8.3	43	14.0	2.00	3.0	<.1	8.9	62	.012
JUN											
01...	1313	4.20	26	74	26.0	2.20	4.9	<.1	9.8	108	.032
12...	1033	4.10	9.8	54	18.0	2.10	7.7	.2	19.0	111	<.010
JUL											
10...	1410	4.00	8.2	86	29.0	3.20	7.9	.2	23.0	133	.020
23...	1302	3.00	17	66	22.0	2.70	4.2	.1	13.0	120	<.010
AUG											
07...	1150	3.00	4.4	91	30.0	3.90	7.0	.1	24.0	133	.020
23...	1347	3.00	5.3	93	31.0	3.90	25.0	.6	57.0	229	<.010
SEP											
05...	1020	3.00	9.1	81	27.0	3.30	25.0	.6	55.0	226	.040
18...	0720	3.00	63	70	23.0	3.10	4.2	.1	17.0	112	.170

07048700 WHITE RIVER NEAR GOSHEN--CONTINUED

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
APR										
19...	.26	.02	--	--	.430	--	<.010	.25	.69	.031
JUN										
01...	.56	.04	--	--	.460	--	<.010	.53	1.0	.061
12...	.41	--	--	--	.830	--	<.010	--	1.2	.092
JUL										
10...	.90	.03	.730	3.23	.740	.033	.010	.88	1.6	--
23...	.70	--	--	--	.300	--	<.010	--	1.0	--
AUG										
07...	.60	.03	--	--	<.020	--	<.010	.58	--	--
23...	.80	--	2.01	8.90	2.10	.296	.090	--	2.9	--
SEP										
05...	.80	.05	1.49	6.60	1.50	.033	.010	.76	2.3	--
18...	.90	.22	.310	1.37	.330	.066	.020	.73	1.2	.031

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
APR										
19...	<.020	.010	.020	2.0	--	2.5	--	6.8	410	85
JUN										
01...	<.020	.020	.060	5.3	1.6	4.4	<3	4.7	780	2600
12...	<.020	.030	.030	2.6	1.0	2.6	67	13.0	440	120
JUL										
10...	<.020	<.010	.040	4.3	2.7	3.3	--	21.0	310	162
23...	<.020	<.010	.050	3.2	--	2.6	46	22.0	600	190
AUG										
07...	<.020	<.010	.050	3.5	--	2.9	26	12.0	370	277
23...	<.020	<.010	.030	4.2	--	3.7	E12	15.0	450	164
SEP										
05...	<.020	<.010	<.020	4.9	--	4.8	63	30.0	470	159
18...	<.020	.010	.120	4.9	.1	5.2	2100	20.0	1540	346

Remark codes used in this report:
< -- Less than
E -- Estimated value

07048800 RICHLAND CREEK AT GOSHEN

LOCATION.--Lat 36°06'15", long 94°00'28", in NW1/4NW1/4 sec.31, T.17 N., R.28 W., Washington County, Hydrologic Unit 11110001, on downstream left end of bridge on Ark. Hwy. 45, 0.9 mi west of Goshen, 0.2 mi upstream from Mill Branch, 0.5 mi upstream from White River.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1954, 1956-63 and 1987-89. October 1998 to current year.

GAGE.--Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	11	61	78	246	338	33	19	115	32	2.3	.52
2	4.0	12	54	66	191	277	32	18	71	27	2.2	.50
3	3.9	12	49	57	161	233	31	17	55	22	2.2	.47
4	4.4	14	44	53	139	197	30	16	45	19	2.1	.48
5	5.0	18	41	58	120	164	31	15	37	16	1.9	.50
6	6.7	431	37	85	105	145	30	14	31	14	1.7	.47
7	5.1	220	35	133	92	130	29	14	26	12	2.0	.43
8	4.6	132	32	140	82	114	28	14	23	11	2.2	2.5
9	4.6	319	30	125	466	101	26	16	21	9.5	1.5	279
10	4.6	173	29	105	424	90	24	17	19	7.9	1.2	63
11	4.6	112	28	162	276	82	27	21	17	6.6	1.1	35
12	4.6	80	29	251	214	76	31	25	16	5.8	1.2	25
13	4.0	75	33	210	280	71	33	32	14	208	1.2	20
14	3.7	70	36	204	583	63	32	29	17	60	1.0	17
15	4.7	58	39	173	1770	64	38	23	285	37	.95	14
16	5.6	51	195	143	1870	70	59	21	79	31	1.3	12
17	6.2	46	236	125	932	66	53	20	52	26	1.0	17
18	6.2	40	155	115	632	58	45	99	37	21	.85	44
19	6.9	35	111	104	486	54	40	64	30	16	.68	145
20	6.5	32	84	88	386	51	37	55	22	13	.62	65
21	6.3	29	70	77	310	48	36	62	23	11	.57	45
22	7.5	26	58	70	278	47	33	58	21	9.0	.55	37
23	7.1	27	52	66	399	45	31	47	18	7.2	.54	30
24	6.5	67	49	63	1860	43	29	37	15	6.4	.54	24
25	6.1	545	45	60	1220	41	27	29	13	5.8	.53	20
26	8.3	268	54	57	656	39	25	25	57	5.0	.56	18
27	11	168	205	54	505	38	23	22	139	4.3	.54	16
28	8.2	123	191	53	411	36	22	20	70	3.9	.51	14
29	7.5	92	178	741	---	35	21	19	47	3.7	1.2	13
30	11	72	136	598	---	35	20	95	37	3.1	1.0	11
31	11	---	101	352	---	34	---	270	---	2.7	.54	---
TOTAL	190.5	3358	2497	4666	15094	2885	956	1233	1452	656.9	36.28	969.87
MEAN	6.15	112	80.5	151	539	93.1	31.9	39.8	48.4	21.2	1.17	32.3
MAX	11	545	236	741	1870	338	59	270	285	208	2.3	279
MIN	3.7	11	28	53	82	34	20	14	13	2.7	.51	.43
AC-FT	378	6660	4950	9260	29940	5720	1900	2450	2880	1300	72	1920
CFSM	.04	.81	.58	1.09	3.91	.67	.23	.29	.35	.15	.01	.23
IN.	.05	.91	.67	1.26	4.07	.78	.26	.33	.39	.18	.01	.26

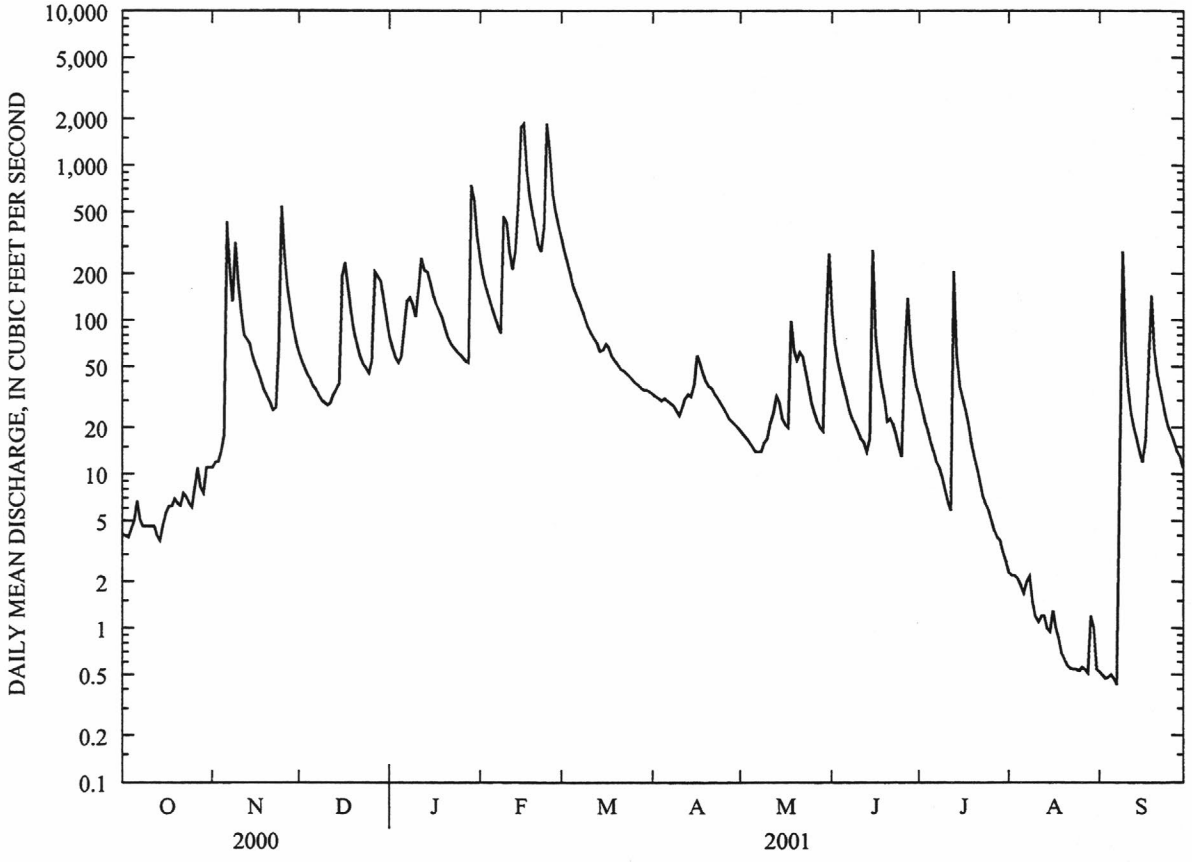
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	19.9	51.6	96.3	102	297	168	187	266	341	71.0	2.21	11.7
MAX	52.2	112	145	151	539	323	473	566	728	114	3.50	32.3
(WY)	1999	2001	1999	2001	2001	1999	1999	1999	2000	1999	2000	2001
MIN	1.35	1.19	63.4	18.8	22.8	86.8	31.9	39.8	48.4	21.2	1.17	1.35
(WY)	2000	2000	2000	2000	2000	2000	2001	2001	2001	2001	2001	2000

07048800 RICHLAND CREEK AT GOSHEN--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	42013.73		33994.55			
ANNUAL MEAN	115		93.1		133	
HIGHEST ANNUAL MEAN					203	1999
LOWEST ANNUAL MEAN					93.1	2001
HIGHEST DAILY MEAN	4540	Jun 21	1870	Feb 16	4540	Jun 21 2000
LOWEST DAILY MEAN	.80	Sep 22	.43	Sep 7	.43	Sep 7 2001
ANNUAL SEVEN-DAY MINIMUM	.88	Sep 16	.48	Sep 1	.48	Sep 1 2001
MAXIMUM PEAK FLOW			2760	Feb 24	[a]8630	Jun 30 1999
MAXIMUM PEAK STAGE			7.47	Feb 24	16.41	Jun 30 1999
INSTANTANEOUS LOW FLOW			.36	Sep 8	.36	Sep 8 2001
ANNUAL RUNOFF (AC-FT)	83330		67430		96450	
ANNUAL RUNOFF (CFSM)	.83		.67		.96	
ANNUAL RUNOFF (INCHES)	11.33		9.16		13.11	
10 PERCENT EXCEEDS	198		216		329	
50 PERCENT EXCEEDS	28		32		35	
90 PERCENT EXCEEDS	1.3		2.2		1.3	

[a]From rating curve extended above 5,200 ft^3/s



07048800 RICHLAND CREEK AT GOSHEN--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963, 1980, 1984-85, April 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
APR											
04...	1415	81213	80513	12	1.2	742	13.3	151	9.0	164	20.1
17...	0800	81213	80513	32	2.2	746	8.7	81	8.0	186	11.2
MAY											
01...	1000	81213	80513	19	2.0	748	9.2	104	7.8	168	20.1
15...	1210	81213	80513	24	5.2	746	9.4	116	8.0	164	24.9
30...	1130	81213	80513	32	3.9	745	7.8	86	7.9	180	18.8
JUN											
12...	0945	81213	80513	16	3.1	737	7.0	87	6.9	182	24.7
26...	0715	81213	80513	3.9	3.0	743	4.5	54	8.1	226	23.6
JUL											
10...	1530	81213	80513	8.2	3.8	749	11.8	168	8.7	220	33.2
23...	1215	81213	80513	8.2	7.5	738	8.1	115	8.3	243	32.3
AUG											
07...	1125	81213	80513	2.7	.7	742	9.8	131	7.8	244	28.9
23...	1445	81213	80513	1.7	2.9	741	13.5	180	8.1	248	28.8
SEP											
05...	0915	81213	80513	1.4	3.4	742	6.0	73	8.1	245	23.4
17...	1400	81213	80513	22	7.1	741	8.0	97	7.8	205	23.5

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) AS N (00625)
APR										
04...	71	25.0	2.20	59	5.0	<.1	11.0	101	<.010	<.20
17...	81	28.0	2.60	57	5.3	<.1	16.0	109	<.010	<.20
MAY										
01...	74	26.0	2.20	63	4.4	<.1	10.0	100	.035	.21
15...	71	25.0	2.20	59	4.2	<.1	9.6	98	.039	.40
30...	82	29.0	2.40	64	4.2	<.1	12.0	104	.058	.32
JUN										
12...	82	29.0	2.40	66	E4.2	<.1	E10.0	164	.036	.28
26...	100	37.0	3.00	89	5.0	<.1	13.0	127	.036	.22
JUL										
10...	99	35.0	2.90	84	5.2	<.1	13.0	127	.020	.30
23...	110	40.0	3.10	100	5.3	<.1	13.0	160	.019	.36
AUG										
07...	110	39.0	3.20	92	5.4	<.1	10.0	137	.040	.30
23...	100	35.0	3.10	92	5.5	<.1	9.7	126	.020	.40
SEP										
05...	110	38.0	3.20	100	5.4	<.1	9.0	139	.030	<.20
17...	94	33.0	2.70	79	3.9	<.1	10.0	115	.030	<.20

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
APR										
04...	--	1.49	6.60	.033	.010	--	--	--	<.020	<.010
17...	--	--	--	--	<.010	--	--	--	<.020	<.010
MAY										
01...	.05	.640	2.83	.033	.010	.17	.86	--	<.020	<.010
15...	.05	--	--	--	<.010	.36	1.1	--	<.020	<.010
30...	.07	--	--	--	<.010	.26	.95	--	<.020	<.010
JUN										
12...	.05	--	--	--	<.010	.24	.73	.061	<.020	.020
26...	.05	.590	2.61	.033	.010	.18	.82	--	<.020	<.010
JUL										
10...	.03	--	--	--	<.010	.28	.59	--	<.020	<.010
23...	.02	--	--	--	<.010	.34	.76	--	<.020	<.010
AUG										
07...	.05	--	--	--	<.010	.26	.38	--	<.020	<.010
23...	.03	--	--	--	<.010	.38	.45	--	<.020	<.010
SEP										
05...	.04	--	--	--	<.010	--	--	--	<.020	<.010
17...	.04	--	--	--	<.010	--	--	.031	<.020	.010

07048800 RICHLAND CREEK AT GOSHEN--CONTINUED

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
04...	<.020	.1	2.2	2.5	E17	80	17	92	17	.55
17...	<.020	1.1	1.1	1.4	170	100	17	97	17	1.5
MAY										
01...	<.020	2.2	.60	.90	E0	80	28	99	19	.97
15...	<.020	1.2	2.3	1.1	E160	200	47	97	23	1.5
30...	<.020	1.6	1.4	1.5	E740	170	36	100	27	2.3
JUN										
12...	<.020	15	2.3	1.6	390	140	46	99	24	1.0
26...	<.020	1.4	1.5	.80	E250	140	42	99	24	.25
JUL										
10...	<.020	.3	2.1	1.5	32	160	57	95	31	.69
23...	.020	1.0	1.3	.80	120	280	92	95	32	.71
AUG										
07...	<.020	3.1	1.6	2.2	57	210	92	94	28	.20
23...	<.020	1.4	1.2	1.8	28	220	79	96	37	.17
SEP										
05...	<.020	1.6	2.4	1.9	E87	230	89	97	33	.12
17...	<.020	2.2	1.7	1.7	2300	260	41	100	27	1.6

Remark codes used in this report:
< -- Less than
E -- Estimated value

07048910 BEAVER LAKE AT HIGHWAY 68 BRIDGE NEAR SONORA

LOCATION.--Lat 36°10'00" long 94°00'26", in SE1/4SE1/4, sec.1, T. 17 N., R.29 W., Washington County, Hydrologic Unit 11010001, at bridge on State Highway 68, 0.8 mi east of Sonora.

DRAINAGE AREA.--621 mi^2.

PERIOD OF RECORD.--May 1984 to September 1995, and April 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER DEG C) (00010)
APR												
19..	1352	80513	80513	39.0	1.00	--	737	9.9	105	7.6	145	16.6
19..	1353	81213	80513	39.0	6.00	1.00	737	9.8	104	7.5	145	16.6
19..	1354	80513	80513	39.0	10.0	--	737	9.8	104	7.5	145	16.5
19..	1355	81213	80513	39.0	12.0	--	737	9.8	104	7.4	145	16.5
19..	1357	80513	80513	39.0	17.0	--	737	9.2	95	7.3	142	15.5
19..	1359	80513	80513	39.0	18.0	--	737	8.3	84	7.2	142	14.8
19..	1400	80513	80513	39.0	19.0	--	737	7.4	75	7.1	142	14.3
19..	1401	80513	80513	39.0	20.0	--	737	5.2	50	7.0	140	12.4
19..	1402	80513	80513	39.0	24.0	--	737	4.6	43	7.0	137	11.2
19..	1403	80513	80513	39.0	30.0	--	737	4.5	42	7.0	134	10.8
19..	1405	81213	80513	39.0	33.0	--	737	4.4	41	6.9	133	10.6
19..	1406	80513	80513	39.0	40.0	--	737	4.3	40	6.8	133	10.5
JUN												
01..	1042	80513	80513	40.0	.40	--	738	8.4	99	7.7	165	22.0
01..	1043	81213	80513	40.0	6.00	1.60	738	7.5	88	7.6	163	21.2
01..	1044	80513	80513	40.0	10.1	--	738	7.4	86	7.5	162	21.1
01..	1045	80513	80513	40.0	12.0	--	738	7.4	86	7.5	162	21.1
01..	1046	80513	80513	40.0	20.0	--	738	4.5	51	7.3	181	20.6
01..	1047	80513	80513	40.0	22.9	--	738	2.9	33	7.2	191	19.7
01..	1048	80513	80513	40.0	28.0	--	738	1.1	12	7.2	199	18.6
01..	1049	80513	80513	40.0	29.0	--	738	.2	3	7.2	183	17.7
01..	1050	80513	80513	40.0	30.0	--	738	4.8	50	7.5	178	15.4
01..	1051	80513	80513	40.0	33.1	--	738	.2	2	7.3	173	14.4
01..	1054	80513	80513	40.0	39.7	--	738	.1	1	7.2	166	13.9
14..	1148	80513	80513	38.0	.20	--	735	7.0	90	7.5	163	25.7
14..	1149	81213	80513	38.0	6.00	.91	735	6.9	87	7.5	162	25.5
14..	1150	80513	80513	38.0	10.1	--	735	4.1	50	7.2	164	23.3
14..	1151	81213	80513	38.0	12.1	--	735	3.1	37	7.1	164	22.5
14..	1152	80513	80513	38.0	14.2	--	735	1.9	22	7.1	167	21.5
14..	1153	80513	80513	38.0	16.3	--	735	.3	3	7.0	171	20.6
14..	1154	80513	80513	38.0	18.0	--	735	.2	2	6.9	173	20.1
14..	1155	80513	80513	38.0	20.0	--	735	.1	1	6.9	175	19.4
14..	1156	80513	80513	38.0	21.0	--	735	.1	1	6.9	180	18.1
14..	1157	80513	80513	38.0	23.1	--	735	.1	1	6.9	181	17.7
14..	1158	80513	80513	38.0	29.9	--	735	.1	1	6.9	186	16.3
14..	1200	81213	80513	38.0	32.1	--	735	.1	0	6.9	188	15.9
14..	1201	80513	80513	38.0	38.4	--	735	.1	0	6.9	195	15.3
JUL												
10..	1135	80513	80513	39.0	.50	--	749	10.8	149	8.9	160	31.1
10..	1136	80020	80513	39.0	6.00	1.30	749	10.7	146	8.9	157	30.6
10..	1138	80513	80513	39.0	8.00	--	749	9.6	129	8.7	152	29.9
10..	1139	80513	80513	39.0	10.1	--	749	7.5	98	8.4	150	28.7
10..	1140	81213	80513	39.0	11.9	--	749	3.2	42	7.7	157	27.9
10..	1141	80513	80513	39.0	14.0	--	749	.3	4	7.4	164	27.1
10..	1142	80513	80513	39.0	19.0	--	749	.2	2	7.2	191	26.0
10..	1143	80513	80513	39.0	19.9	--	749	.1	2	7.2	193	25.8
10..	1144	80513	80513	39.0	25.2	--	749	.1	2	7.1	196	24.2
10..	1145	80513	80513	39.0	30.1	--	749	.1	1	7.2	218	20.3
10..	1146	80513	80513	39.0	32.0	--	749	.1	1	7.4	226	18.9
10..	1149	81213	80513	39.0	33.0	--	749	.1	0	7.2	226	18.3
10..	1150	80513	80513	39.0	37.6	--	749	.1	0	7.2	231	17.4
24..	1151	80513	80513	36.0	.000	--	738	9.1	130	8.8	168	32.6
24..	1153	80513	80513	36.0	1.90	--	738	9.3	133	8.8	169	32.0
24..	1155	81213	80513	36.0	6.00	1.40	738	7.7	105	8.1	161	30.2
24..	1156	80513	80513	36.0	8.00	--	738	5.1	70	8.1	157	30.2
24..	1157	80513	80513	36.0	10.0	--	738	2.3	31	7.5	160	29.6
24..	1158	81213	80513	36.0	12.0	--	738	.1	1	7.3	165	29.1
24..	1159	80513	80513	36.0	14.0	--	738	.1	2	7.1	175	28.7
24..	1200	80513	80513	36.0	17.0	--	738	.1	1	7.0	184	28.1
24..	1201	80513	80513	36.0	20.2	--	738	.1	1	7.0	187	27.4
24..	1202	80513	80513	36.0	22.7	--	738	.1	1	7.0	191	26.5
24..	1203	80513	80513	36.0	26.0	--	738	.1	1	7.0	210	25.0
24..	1205	80513	80513	36.0	27.0	--	738	.1	0	7.0	223	23.3
24..	1206	80513	80513	36.0	28.0	--	738	.1	0	7.2	236	21.6
24..	1207	80513	80513	36.0	29.0	--	738	.1	0	7.2	241	20.6
24..	1208	81213	80513	36.0	30.0	--	738	.1	0	7.2	243	20.1
24..	1211	80513	80513	36.0	30.1	--	738	.1	0	7.1	244	19.9
24..	1212	80513	80513	36.0	32.0	--	738	.1	0	7.1	253	19.1
24..	1213	80513	80513	36.0	34.2	--	738	.1	0	7.1	260	18.8
24..	1214	80513	80513	36.0	35.9	--	738	.1	0	7.1	261	18.5
AUG												
07..	0844	80513	80513	34.0	.50	--	742	4.1	56	7.5	164	30.8
07..	0845	80020	80513	34.0	6.00	1.30	742	4.0	55	7.5	164	30.8
07..	0846	80513	80513	34.0	10.0	--	742	4.4	60	7.6	167	30.6
07..	0847	81213	80513	34.0	12.0	--	742	4.0	55	7.5	169	30.6
07..	0849	80513	80513	34.0	20.0	--	742	.1	2	6.9	188	29.6
07..	0852	80513	80513	34.0	24.0	--	742	.1	1	6.8	201	28.6
07..	0853	80513	80513	34.0	25.9	--	742	.1	1	6.9	212	27.1
07..	0854	80513	80513	34.0	27.1	--	742	.1	0	7.0	228	25.1
07..	0855	81213	80513	34.0	28.0	--	742	.1	0	7.1	250	22.9
07..	0856	80513	80513	34.0	29.0	--	742	.1	0	7.2	261	21.4
07..	0857	80513	80513	34.0	30.0	--	742	.1	0	7.2	268	20.7
07..	0858	80513	80513	34.0	34.3	--	742	.1	0	7.3	274	19.4

07048910 BEAVER LAKE AT HIGHWAY 68 BRIDGE NEAR SONORA--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER DEG C) (00010)
AUG												
23..	1101	80513	80513	33.0	.10	--	743	5.2	70	7.7	172	28.6
23..	1102	81213	80513	33.0	6.00	.85	743	4.6	60	7.5	173	28.5
23..	1103	80513	80513	33.0	10.0	--	743	4.6	60	7.5	173	28.5
23..	1104	81213	80513	33.0	12.0	--	743	4.2	55	7.5	174	28.5
23..	1105	80513	80513	33.0	20.0	--	743	.2	3	7.2	185	28.0
23..	1106	80513	80513	33.0	23.0	--	743	.1	2	7.1	198	27.4
23..	1108	80513	80513	33.0	25.0	--	743	.1	1	7.1	214	26.4
23..	1109	81213	80513	33.0	27.0	--	743	.1	1	7.0	245	24.8
23..	1110	80513	80513	33.0	30.0	--	743	.1	0	7.0	267	23.2
23..	1111	80513	80513	33.0	33.0	--	743	.1	0	7.0	296	20.9
SEP												
07..	1112	80513	80513	32.0	.20	--	737	5.0	65	7.3	181	27.4
07..	1113	80020	80513	32.0	6.00	.91	737	4.8	63	7.2	181	27.4
07..	1114	80513	80513	32.0	10.0	--	737	4.5	59	7.2	181	27.3
07..	1115	81213	80513	32.0	12.0	--	737	4.1	53	7.1	181	27.3
07..	1116	80513	80513	32.0	20.0	--	737	.2	2	6.9	203	26.7
07..	1117	80513	80513	32.0	25.0	--	737	.1	1	6.9	244	25.1
07..	1119	81213	80513	32.0	26.0	--	737	.1	1	7.0	276	23.6
07..	1120	80513	80513	32.0	28.0	--	737	.1	1	7.0	294	22.5
07..	1121	80513	80513	32.0	30.0	--	737	.1	0	7.1	311	21.3
07..	1122	80513	80513	32.0	32.0	--	737	.1	0	7.1	333	20.6
18..	1121	80513	80513	32.0	.000	--	739	6.6	81	8.0	194	24.3
18..	1125	81213	80513	32.0	6.00	.64	739	5.8	72	8.0	195	24.2
18..	1126	80513	80513	32.0	.10	--	739	5.9	72	8.0	195	24.2
18..	1128	81213	80513	32.0	12.0	--	739	5.9	73	7.9	196	24.2
18..	1130	80513	80513	32.0	20.0	--	739	5.2	64	7.7	199	24.1
18..	1131	80513	80513	32.0	25.0	--	739	.2	2	7.0	225	23.0
18..	1133	81213	80513	32.0	26.0	--	739	.1	0	7.0	226	22.8
18..	1134	80513	80513	32.0	30.0	--	739	.1	0	7.0	249	22.4
18..	1137	80513	80513	32.0	32.0	--	739	.00	.0	7.1	300	21.6

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
APR											
19...	1353	6.00	5.3	59	20.0	2.10	4.5	<.1	12.0	87	<.010
19...	1355	12.0	5.4	59	20.0	2.10	4.6	<.1	11.0	86	.022
19...	1405	33.0	11	55	19.0	1.80	4.3	<.1	9.2	85	.072
JUN											
01...	1043	6.00	10	65	22.0	2.50	5.1	.1	16.0	103	.100
01...	1045	12.0	9.9	65	22.0	2.40	5.0	.1	16.0	101	.106
01...	1051	33.1	38	46	15.0	2.10	3.0	<.1	10.0	77	.453
14...	1149	6.00	4.3	67	23.0	2.30	5.1	<.1	13.0	93	<.010
14...	1151	12.1	5.4	71	25.0	2.10	5.3	<.1	12.0	94	.020
14...	1200	32.1	16	77	27.0	2.40	4.9	<.1	11.0	110	.532
JUL											
10...	1136	6.00	2.0	59	20.0	2.20	5.4	.1	13.0	87	.016
10...	1140	11.9	2.4	64	22.0	2.20	5.4	<.1	12.0	90	.030
10...	1149	33.0	26	88	31.0	2.60	5.2	.1	9.5	129	1.00
24...	1155	6.00	2.6	64	22.0	2.30	5.4	.1	12.0	106	<.010
24...	1158	12.0	3.3	64	22.0	2.30	5.4	.1	12.0	104	.052
24...	1208	30.0	34	94	33.0	2.70	5.3	.1	8.4	152	1.61
AUG											
07...	0845	6.00	.2	64	22.0	2.20	5.4	.1	12.0	91	.010
07...	0847	12.0	1.8	64	22.0	2.20	5.4	.1	12.0	89	<.010
07...	0855	28.0	24	97	34.0	2.90	5.3	.1	8.1	141	1.80
23...	1102	6.00	3.5	70	24.0	2.40	5.5	.1	12.0	93	.030
23...	1104	12.0	4.0	72	25.0	2.40	5.5	.1	11.0	97	.020
23...	1109	27.0	20	86	30.0	2.70	5.5	.1	9.6	119	.990
SEP											
07...	1113	6.00	3.3	75	26.0	2.50	5.8	.1	12.0	103	.030
07...	1115	12.0	4.2	75	26.0	2.50	5.8	.1	12.0	101	.040
07...	1119	26.0	53	100	36.0	3.10	5.5	.1	5.8	151	2.70
18...	1125	6.00	5.0	81	28.0	2.70	6.6	.1	15.0	116	.090
18...	1128	12.0	6.0	81	28.0	2.70	6.7	.1	15.0	119	.100
18...	1133	26.0	18	87	30.0	2.90	8.0	.2	20.0	138	.510

07048910 BEAVER LAKE AT HIGHWAY 68 BRIDGE NEAR SONORA--CONTINUED

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
APR											
19..	.38	--	--	--	1.10	--	<.010	--	1.5	--	<.020
19..	.35	.03	1.09	4.82	1.10	.033	.010	.33	1.5	.031	<.020
19..	.35	.09	1.59	7.04	1.60	.033	.010	.28	2.0	.031	<.020
JUN											
01..	.62	.13	.500	2.21	.510	.033	.010	.52	1.1	--	<.020
01..	.49	.14	.510	2.26	.520	.033	.010	.38	1.0	--	<.020
01..	.80	.58	--	--	.580	--	<.010	.35	1.4	--	<.020
14..	.45	--	.340	1.51	.370	.099	.030	--	.82	--	<.020
14..	.43	.03	.580	2.57	.670	.296	.090	.41	1.1	--	<.020
14..	.87	.69	--	--	.320	--	<.010	.34	1.2	.031	<.020
JUL											
10..	.56	.02	--	--	<.020	--	<.010	.54	--	--	<.020
10..	.51	.04	.050	.221	.070	.066	.020	.48	.58	--	<.020
10..	1.5	1.29	--	--	<.020	--	<.010	.50	--	.123	.040
24..	.63	--	--	--	.020	--	<.010	--	.65	--	<.020
24..	.49	.07	--	--	.100	--	<.010	.44	.59	--	<.020
24..	2.0	2.07	--	--	.020	--	<.010	.39	2.0	.123	.040
AUG											
07..	.50	.01	--	--	<.020	--	<.010	.49	--	--	<.020
07..	.60	--	--	--	<.020	--	<.010	--	--	--	<.020
07..	2.5	2.32	--	--	<.020	--	<.010	.70	--	.215	.080
23..	.50	.04	--	--	<.020	--	<.010	.47	--	--	<.020
23..	.60	.03	--	--	<.020	--	<.010	.58	--	--	<.020
23..	1.6	1.27	--	--	<.020	--	<.010	.61	--	--	<.020
SEP											
07..	.50	.04	--	--	<.020	--	<.010	.47	--	--	<.020
07..	.40	.05	--	--	<.020	--	<.010	.36	--	--	<.020
07..	3.3	3.48	--	--	<.020	--	<.010	.60	--	.061	<.020
18..	.40	.12	--	--	.100	--	<.010	.31	.50	--	<.020
18..	.40	.13	--	--	.110	--	<.010	.30	.51	--	<.020
18..	.90	.66	.440	1.95	.460	.066	.020	.39	1.4	--	<.020

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
APR									
19...	<.010	<.020	2.6	--	2.7	E3	8.8	M	1
19...	.010	<.020	3.3	--	3.4	--	--	180	54
19...	.010	<.020	2.6	--	2.9	--	--	360	170
JUN									
01...	<.010	.030	3.3	1.3	3.4	E9	12.0	340	96
01...	<.010	.030	3.4	--	3.0	--	--	350	87
01...	<.010	.030	2.6	2.1	2.8	--	--	1100	150
14...	<.010	.020	3.6	--	4.2	E3	13.0	200	86
14...	<.010	<.020	3.6	--	3.8	--	--	200	76
14...	.010	.020	3.2	--	2.6	--	--	520	3100
JUL									
10...	<.010	<.020	3.3	2.2	2.9	--	20.0	100	41
10...	<.010	.030	2.7	--	2.5	--	--	170	64
10...	.040	.080	4.3	--	3.4	--	--	1790	4510
24...	<.010	.040	3.3	--	3.6	--	15.0	220	54
24...	<.010	.030	2.1	--	1.7	--	--	190	60
24...	.040	.100	2.8	--	2.3	--	--	1800	5900
AUG									
07...	<.010	.020	4.0	--	3.6	E8	190	210	59
07...	<.010	.030	3.2	--	4.0	--	--	440	74
07...	.070	.210	4.4	--	3.2	--	--	5260	5360
23...	<.010	<.020	2.3	--	2.3	E14	18.0	260	115
23...	<.010	<.020	2.3	--	2.2	--	--	300	114
23...	<.010	.080	2.7	--	2.4	--	--	1150	3500
SEP									
07...	<.010	<.020	3.1	--	3.6	<1	25.0	250	179
07...	<.010	<.020	2.6	--	2.6	--	--	260	190
07...	.020	.060	5.0	--	4.9	--	--	4090	6980
18...	<.010	<.020	3.8	1.4	3.9	S4	13.0	310	125
18...	<.010	<.020	3.9	--	4.2	--	--	310	125
18...	<.010	.040	5.2	--	5.4	--	--	550	1450

Remark codes used in this report:
< -- Less than
E -- Estimated value
S -- Most probable value
Null value remark codes used in this report:
M -- Presence verified, not quantified

07049000 WAR EAGLE CREEK NEAR HINDSVILLE

LOCATION.--Lat 36°12'00", long 93°51'18", in SE1/4NE1/4 sec.28, T.18 N., R.27 W., Madison County, Hydrologic Unit 11010001, on left bank about 800 ft above bridge on State Highway 45, 3.9 mi north of Hindsville, and at mile 22.4.

DRAINAGE AREA.--263 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1952 to September 1970, October 1998 to current year. Annual maximum, water years 1971-77 and 1985-98.

GAGE.-Water-stage recorder. Datum of gage is 1,168.06 ft above sea level. Prior to Oct. 1, 1964, at datum 200 ft higher. Prior to Jan. 1, 1965, at same site on right bank.

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

EXTREMES OUTSIDE PERIOD OF RECORD.-Flood of May 10, 1943, reached a stage of 30.1 ft, present datum, from information by local resident (discharge, about 50,000 ft^3/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	49	143	e130	518	611	86	58	264	201	28	19
2	11	58	121	115	399	527	83	55	182	139	27	17
3	11	51	105	99	327	457	81	52	135	93	23	16
4	11	43	93	94	284	399	78	49	101	71	21	16
5	11	46	83	102	243	340	76	47	83	61	20	16
6	12	1100	77	137	214	295	74	46	69	57	19	16
7	11	633	73	201	193	267	72	51	59	49	18	17
8	11	291	68	224	175	242	68	82	57	43	18	28
9	11	418	63	216	942	221	66	89	55	36	18	188
10	11	344	60	191	1190	203	64	67	42	39	18	116
11	11	228	58	202	648	187	68	63	38	36	18	64
12	11	168	60	419	500	176	70	71	35	29	18	44
13	12	146	66	423	482	168	108	64	33	43	18	34
14	13	136	70	411	862	154	95	58	32	166	17	28
15	16	118	71	378	5060	155	107	52	67	89	17	25
16	19	100	205	303	5320	184	186	46	75	58	19	24
17	25	84	373	255	2820	196	167	43	55	47	18	24
18	24	71	279	228	1400	169	135	74	42	42	18	28
19	24	62	203	207	941	153	119	77	36	37	16	53
20	25	55	162	181	707	144	111	72	32	32	15	46
21	27	49	136	158	572	135	105	92	39	28	15	34
22	29	44	113	141	509	129	98	147	44	26	14	30
23	35	44	99	129	485	123	92	140	38	25	14	27
24	36	51	90	121	2410	116	87	102	35	24	14	24
25	33	870	83	113	3530	109	102	80	31	23	15	21
26	34	662	84	107	1420	102	89	65	28	31	15	20
27	40	403	123	100	932	98	80	57	36	43	15	18
28	46	285	182	97	751	94	74	52	557	43	15	17
29	46	220	210	1060	---	93	68	50	550	40	27	17
30	47	173	e199	1770	---	93	63	62	217	36	33	15
31	49	---	e158	776	---	90	---	278	---	32	23	---
TOTAL	714	7002	3910	9088	33834	6430	2772	2341	3067	1719	584	1042
MEAN	23.0	233	126	293	1208	207	92.4	75.5	102	55.5	18.8	34.7
MAX	49	1100	373	1770	5320	611	186	278	557	201	33	188
MIN	11	43	58	94	175	90	63	43	28	23	14	15
AC-FT	1420	13890	7760	18030	67110	12750	5500	4640	6080	3410	1160	2070

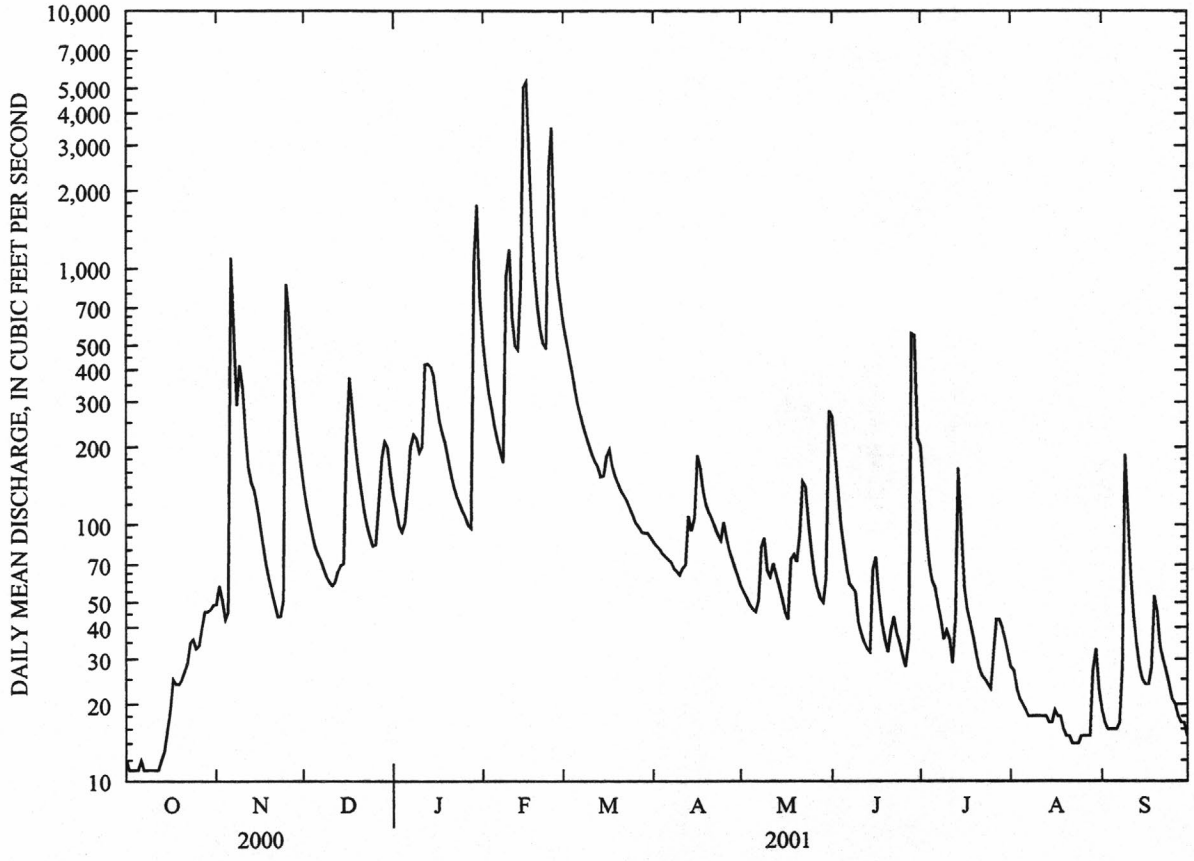
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952-70, 1999-01, BY WATER YEAR (WY)

MEAN	118	174	232	212	372	474	603	657	234	137	64.8	51.3
MAX	849	820	1026	640	1208	1228	2254	2582	1274	795	524	344
(WY)	1968	1969	1969	1969	2001	1968	1957	1957	2000	1960	1958	1970
MIN	3.72	7.21	8.03	7.81	15.9	62.0	92.4	75.5	23.3	2.63	1.49	2.29
(WY)	1957	1964	1964	1964	1964	1967	2001	2001	1954	1954	1954	1954

07049000 WAR EAGLE CREEK NEAR HINDSVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1952-70,1999-01	
ANNUAL TOTAL	75433.4		72503			
ANNUAL MEAN	206		199		277	
HIGHEST ANNUAL MEAN					641	1957
LOWEST ANNUAL MEAN					47.7	1954
HIGHEST DAILY MEAN	6940	Jun 18	5320	Feb 16	19000	May 23 1957
LOWEST DAILY MEAN	9.7	Sep 21	11	Oct 2	.20	Aug 18 1954
ANNUAL SEVEN-DAY MINIMUM	9.9	Sep 16	11	Oct 2	.33	Aug 13 1954
MAXIMUM PEAK FLOW			7730	Feb 15	[a]49000	Nov 19 1985
MAXIMUM PEAK STAGE			11.49	Feb 15	28.49	Nov 19 1985
INSTANTANEOUS LOW FLOW			11	Oct 3-9	.20	Aug 18-19 1954
ANNUAL RUNOFF (AC-FT)	149600		143800		200800	
10 PERCENT EXCEEDS	272		414		573	
50 PERCENT EXCEEDS	71		71		72	
90 PERCENT EXCEEDS	12		18		9.4	

[a]Occurred during period of computation of annual maximum only, water years 1985-98
[e]Estimated



07049000 WAR EAGLE CREEK NEAR HINDSVILLE--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-55, 1994-95, and April 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
APR											
05...	0830	81213	80513	76	2.6	742	8.7	91	7.6	195	16.4
17...	1400	81213	80513	160	2.3	746	8.5	88	8.1	161	16.0
MAY											
02...	0745	81213	80513	55	3.8	744	6.9	78	7.1	189	20.0
16...	0850	81213	80513	47	4.3	742	6.5	76	7.7	211	21.9
30...	0800	81213	80513	59	4.3	745	7.1	79	7.9	203	19.2
JUN											
12...	0800	81213	80513	33	5.6	734	6.2	79	7.8	212	25.0
25...	1330	81213	80513	28	1.8	741	7.3	92	8.2	240	26.0
JUL											
09...	1215	81213	80513	35	4.6	745	6.0	79	8.0	242	28.2
24...	1400	81213	80513	23	2.2	736	6.6	91	8.2	246	30.4
AUG											
07...	0615	81213	80513	15	.3	742	6.8	88	7.3	268	26.8
21...	1130	81213	80513	13	1.2	740	7.5	96	7.8	256	26.0
SEP											
05...	0730	81213	80513	17	1.8	742	6.6	82	8.3	298	24.5
18...	0930	81213	80513	30	4.3	738	6.7	77	7.9	276	20.9

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L) AS N (00625)
APR										
05...	84	31.0	1.70	75	6.9	<.1	6.0	111	<.010	<.20
17...	72	26.0	1.70	61	5.3	<.1	6.5	96	<.010	.21
MAY										
02...	84	31.0	1.70	75	7.3	<.1	5.0	112	.040	.36
16...	90	33.0	1.80	77	11.0	<.1	5.2	121	.048	.42
30...	89	33.0	1.70	74	7.5	<.1	5.2	115	.043	.26
JUN										
12...	47	15.0	2.20	82	2.6	<.1	9.2	70	.045	.24
25...	110	39.0	1.90	95	10.0	<.1	5.5	136	.024	.21
JUL										
09...	110	39.0	1.90	89	8.3	<.1	5.9	138	.030	.20
24...	100	38.0	2.00	37	11.0	<.1	5.4	165	.024	.26
AUG										
07...	110	42.0	2.00	93	13.0	<.1	5.2	150	.040	.30
21...	110	39.0	2.00	93	14.0	<.1	4.3	147	.030	.30
SEP										
05...	120	43.0	2.10	98	19.0	<.1	4.3	168	.040	<.20
18...	120	45.0	2.10	97	13.0	<.1	6.7	166	.050	.20

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
APR										
05...	--	1.49	6.60	.033	.010	--	--	.092	<.020	.030
17...	--	--	--	--	<.010	--	1.1	.061	<.020	.020
MAY										
02...	.05	.830	3.67	.033	.010	.32	1.2	.061	<.020	.020
16...	.06	--	--	--	<.010	.37	1.4	.153	.050	.050
30...	.06	--	--	--	<.010	.22	1.4	.092	.020	.030
JUN										
12...	.06	--	--	--	<.010	.20	1.2	.153	.020	.050
25...	.03	--	--	--	<.010	.19	1.1	.061	<.020	.020
JUL										
09...	.04	--	--	--	<.010	.17	1.5	.092	.020	.030
24...	.03	--	--	--	<.010	.24	1.1	.092	.040	.030
AUG										
07...	.05	--	--	--	<.010	.26	1.1	--	<.020	<.010
21...	.04	--	--	--	<.010	.27	.71	--	<.020	<.010
SEP										
05...	.05	--	--	--	<.010	--	--	--	<.020	<.010
18...	.06	1.89	8.37	.033	.010	.15	2.1	.123	.040	.040

07049000 WAR EAGLE CREEK NEAR HINDSVILLE--CONTINUED

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
05...	.030	3.6	1.8	--	48	170	32	99	19	3.9
17...	.030	1.0	2.0	2.4	31	150	27	95	21	9.1
MAY										
02...	.020	11	1.0	1.2	38	150	45	98	22	3.3
16...	.070	2.8	1.7	1.3	54	180	52	94	28	3.6
30...	.020	1.9	1.5	1.4	E220	200	51	98	25	4.0
JUN										
12...	.040	2.8	2.2	2.1	430	400	140	99	27	2.4
25...	.020	1.0	1.0	.80	120	130	44	99	23	1.7
JUL										
09...	.040	1.9	2.2	1.6	74	170	60	100	28	2.6
24...	.050	.4	1.3	1.0	36	110	57	99	26	1.6
AUG										
07...	.020	8.0	2.4	1.8	60	100	59	94	32	1.3
21...	<.020	2.9	2.9	1.8	25	150	82	98	42	1.5
SEP										
05...	<.020	1.0	2.2	2.5	61	120	64	97	31	1.4
18...	.050	2.2	2.9	2.3	28	160	52	96	25	2.0

Remark codes used in this report:
< -- Less than
E -- Estimated value

07049200 BEAVER LAKE NEAR LOWELL

LOCATION.--Lat 36°15'33", long 94°04'08", in NW1/4NE1/4 sec.4, T.18 N., R.29 W., Benton County, Hydrologic Unit 11010001, 3.3 mi east of Lowell.

PERIOD OF RECORD.--April 1977 to September 1995, April 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER DEG C) (00010)
APR												
19..	0816	80513	80513	78.0	.000	--	739	11.0	112	7.6	137	14.9
19..	0817	81213	80513	78.0	6.00	1.90	739	11.0	113	7.7	137	14.9
19..	0818	80513	80513	78.0	10.0	--	739	11.0	112	7.7	137	14.8
19..	0819	80513	80513	78.0	20.0	--	739	10.3	103	7.5	137	14.1
19..	0820	81213	80513	78.0	24.0	--	739	9.8	95	7.3	137	12.8
19..	0821	80513	80513	78.0	30.0	--	738	9.0	85	7.2	134	11.5
19..	0823	80513	80513	78.0	32.0	--	739	8.5	79	7.1	133	10.6
19..	0824	80513	80513	78.0	36.0	--	739	7.9	71	7.1	131	9.3
19..	0825	80513	80513	78.0	40.0	--	739	8.0	71	7.1	132	8.8
19..	0826	80513	80513	78.0	50.0	--	739	8.1	71	7.0	134	8.3
19..	0827	80513	80513	78.0	60.0	--	739	8.0	70	7.0	137	8.1
19..	0828	80513	80513	78.0	70.0	--	739	8.1	70	7.0	140	7.8
19..	0830	81213	80513	78.0	72.0	--	739	8.1	70	6.9	140	7.8
19..	0831	80513	80513	78.0	79.0	--	739	7.8	67	6.9	141	7.7
JUN												
01..	0713	80513	80513	78.0	.10	--	737	10.3	118	8.5	146	20.4
01..	0714	81213	80513	78.0	6.00	2.20	737	10.2	118	8.5	146	20.5
01..	0715	80513	80513	78.0	10.0	--	737	10.1	117	8.5	146	20.6
01..	0717	80513	80513	78.0	19.9	--	737	8.5	96	7.9	147	19.4
01..	0718	80513	80513	78.0	24.0	--	737	7.4	82	7.7	146	18.4
01..	0720	80513	80513	78.0	25.0	--	737	6.5	71	7.5	146	18.0
01..	0721	80513	80513	78.0	26.1	--	737	5.7	62	7.4	145	17.2
01..	0723	80513	80513	78.0	30.0	--	737	4.0	42	7.2	142	15.9
01..	0724	80513	80513	78.0	32.0	--	737	3.3	34	7.2	141	15.2
01..	0725	80513	80513	78.0	35.0	--	737	2.3	23	7.2	140	14.5
01..	0726	80513	80513	78.0	40.1	--	737	1.6	17	7.1	140	13.9
01..	0728	80513	80513	78.0	42.1	--	737	1.0	10	7.0	140	13.0
01..	0729	80513	80513	78.0	45.0	--	737	.8	8	7.0	140	12.3
01..	0731	80513	80513	78.0	48.0	--	737	.9	9	7.0	140	11.2
01..	0732	80513	80513	78.0	50.1	--	737	1.1	10	7.0	139	10.7
01..	0733	80513	80513	78.0	52.0	--	737	1.3	12	7.0	140	10.3
01..	0735	80513	80513	78.0	60.1	--	737	2.2	20	7.0	142	9.2
01..	0736	80513	80513	78.0	70.0	--	737	2.6	23	7.0	143	8.9
01..	0738	80513	80513	78.0	72.0	--	737	2.6	23	7.0	144	8.9
01..	0739	80513	80513	78.0	77.6	--	737	2.5	22	6.9	145	8.8
14..	0812	80513	80513	78.0	.10	--	735	9.4	123	8.5	147	26.9
14..	0813	81213	80513	78.0	6.10	2.60	735	9.5	123	8.5	147	26.9
14..	0814	80513	80513	78.0	10.1	--	735	9.6	124	8.5	146	26.8
14..	0816	80513	80513	78.0	12.1	--	735	9.6	124	8.5	146	26.6
14..	0818	80513	80513	78.0	13.1	--	735	9.2	117	8.3	146	25.4
14..	0819	80513	80513	78.0	14.0	--	735	9.8	120	8.3	145	23.7
14..	0820	80513	80513	78.0	15.9	--	735	9.3	113	8.2	145	23.0
14..	0821	80513	80513	78.0	17.0	--	735	8.7	104	8.1	146	22.3
14..	0822	80513	80513	78.0	19.9	--	735	7.4	87	7.8	147	21.5
14..	0823	80513	80513	78.0	22.1	--	735	4.9	56	7.5	150	20.5
14..	0824	81213	80513	78.0	24.0	--	735	3.5	40	7.2	150	19.8
14..	0825	80513	80513	78.0	26.0	--	735	2.7	30	7.1	150	19.1
14..	0826	80513	80513	78.0	28.1	--	735	1.3	14	7.0	149	18.4
14..	0827	80513	80513	78.0	30.1	--	735	.5	5	7.0	146	17.4
14..	0828	80513	80513	78.0	32.0	--	735	.3	3	6.9	146	16.3
14..	0829	80513	80513	78.0	34.1	--	735	.2	2	6.9	144	15.5
14..	0830	80513	80513	78.0	35.9	--	735	.2	2	6.8	144	14.7
14..	0831	80513	80513	78.0	38.1	--	735	.2	2	6.8	143	13.5
14..	0832	80513	80513	78.0	40.1	--	735	.3	3	6.8	141	12.2
14..	0833	80513	80513	78.0	42.0	--	735	.4	3	6.8	141	11.4
14..	0834	80513	80513	78.0	45.0	--	735	.4	4	6.7	140	11.0
14..	0835	80513	80513	78.0	49.6	--	735	.6	6	6.7	142	10.3
14..	0836	80513	80513	78.0	57.0	--	735	1.6	14	6.7	144	9.3
14..	0837	80513	80513	78.0	59.9	--	735	1.6	14	6.6	145	9.1
14..	0838	80513	80513	78.0	70.1	--	735	1.3	12	6.6	147	8.9
14..	0840	81213	80513	78.0	72.1	--	735	1.0	9	6.5	148	8.9
14..	0841	80513	80513	78.0	77.1	--	735	.8	8	6.5	149	8.9
JUL												
10..	0821	80513	80513	77.0	.50	--	748	9.7	129	8.6	149	29.6
10..	0822	80020	80513	77.0	6.00	4.10	748	9.7	131	8.6	148	29.6
10..	0823	80513	80513	77.0	10.1	--	748	9.8	131	8.6	148	29.6
10..	0824	80513	80513	77.0	11.9	--	748	10.4	139	8.6	149	29.0
10..	0825	80513	80513	77.0	14.0	--	748	11.1	145	8.6	150	28.1
10..	0826	80513	80513	77.0	17.0	--	748	10.1	128	8.5	156	26.9
10..	0827	80513	80513	77.0	20.1	--	748	7.8	97	8.3	167	25.8
10..	0828	80513	80513	77.0	22.1	--	748	4.3	53	7.9	178	24.9
10..	0829	81213	80513	77.0	24.0	--	748	2.0	25	7.6	182	24.5
10..	0830	80513	80513	77.0	27.0	--	748	.3	4	7.4	196	23.1
10..	0831	80513	80513	77.0	29.0	--	748	.2	3	7.4	204	21.9
10..	0832	80513	80513	77.0	30.0	--	748	.2	2	7.4	192	20.6
10..	0833	80513	80513	77.0	31.9	--	748	.1	2	7.3	186	19.6
10..	0834	80513	80513	77.0	34.1	--	748	.1	1	7.3	181	18.4
10..	0835	80513	80513	77.0	36.0	--	748	.1	1	7.2	173	17.6
10..	0836	80513	80513	77.0	38.0	--	748	.1	1	7.2	161	16.1
10..	0837	80513	80513	77.0	40.1	--	748	.1	1	7.2	159	14.9
10..	0838	80513	80513	77.0	41.9	--	748	.1	1	7.1	152	14.0
10..	0839	80513	80513	77.0	45.1	--	748	.1	1	7.1	153	12.5
10..	0840	80513	80513	77.0	50.0	--	748	.1	0	7.1	152	11.2
10..	0841	80513	80513	77.0	55.0	--	748	.1	0	7.1	152	10.3
10..	0842	80513	80513	77.0	60.0	--	748	.1	0	7.0	152	9.7
10..	0843	80513	80513	77.0	70.0	--	748	.1	0	7.0	154	9.4
10..	0845	81213	80513	77.0	71.1	--	748	.1	0	6.8	153	9.3
10..	0846	80513	80513	77.0	76.6	--	748	.1	0	6.8	156	9.3

07049200 BEAVER LAKE NEAR LOWELL--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER DEG C) (00010)
JUL												
24..	0755	80513	80513	74.0	.20	--	737	8.2	116	8.6	148	31.4
24..	0756	81213	80513	74.0	6.20	2.80	737	8.2	115	8.6	147	31.6
24..	0758	80513	80513	74.0	10.0	--	737	8.4	116	8.5	153	30.4
24..	0800	80513	80513	74.0	12.1	--	737	8.7	118	8.4	155	29.6
24..	0802	80513	80513	74.0	17.1	--	737	8.3	112	8.3	157	28.7
24..	0804	80513	80513	74.0	19.9	--	737	6.2	82	8.0	166	27.9
24..	0805	80513	80513	74.0	22.0	--	737	2.9	38	7.5	176	27.1
24..	0806	80513	80513	74.0	23.0	--	737	1.5	19	7.3	179	26.8
24..	0807	81213	80513	74.0	24.0	--	737	.4	5	7.2	181	26.5
24..	0808	80513	80513	74.0	26.0	--	737	.1	2	7.2	192	25.6
24..	0809	80513	80513	74.0	28.0	--	737	.1	1	7.1	200	24.9
24..	0810	80513	80513	74.0	29.9	--	737	.1	1	7.1	205	23.4
24..	0812	80513	80513	74.0	31.1	--	737	.1	0	7.1	206	22.2
24..	0813	80513	80513	74.0	32.0	--	737	.1	0	7.1	206	21.4
24..	0814	80513	80513	74.0	33.0	--	737	.1	0	7.1	207	20.8
24..	0815	80513	80513	74.0	34.1	--	737	.1	0	7.1	206	20.0
24..	0816	80513	80513	74.0	35.0	--	737	.1	0	7.1	203	19.1
24..	0817	80513	80513	74.0	36.0	--	737	.1	0	7.1	202	18.4
24..	0818	80513	80513	74.0	37.0	--	737	.1	0	7.1	192	17.7
24..	0819	80513	80513	74.0	37.9	--	737	.1	0	7.0	190	17.3
24..	0820	80513	80513	74.0	39.0	--	737	.1	0	7.0	186	17.0
24..	0821	80513	80513	74.0	40.1	--	737	.1	0	7.0	176	16.1
24..	0822	80513	80513	74.0	42.0	--	737	.1	0	6.9	174	15.0
24..	0823	80513	80513	74.0	44.0	--	737	.1	0	6.9	168	13.8
24..	0824	80513	80513	74.0	45.9	--	737	.1	0	6.9	167	13.2
24..	0825	80513	80513	74.0	48.1	--	737	.1	0	6.9	164	12.4
24..	0826	80513	80513	74.0	50.0	--	737	.1	0	6.9	162	11.3
24..	0827	80513	80513	74.0	51.9	--	737	.1	0	6.8	162	10.8
24..	0828	80513	80513	74.0	55.0	--	737	.1	0	6.8	161	10.1
24..	0829	80513	80513	74.0	60.1	--	737	.1	0	6.8	159	9.8
24..	0830	80513	80513	74.0	65.1	--	737	.1	0	6.9	158	9.4
24..	0833	81213	80513	74.0	68.1	--	737	.1	0	6.7	161	9.2
24..	0834	80513	80513	74.0	70.1	--	737	.1	0	6.6	160	9.3
24..	0835	80513	80513	74.0	74.0	--	737	.1	0	6.6	161	9.2
AUG												
08..	1447	80513	80513	73.0	.60	--	742	10.2	144	8.6	138	32.0
08..	1448	80020	80513	73.0	6.00	2.60	742	10.8	150	8.7	138	31.4
08..	1449	80513	80513	73.0	10.0	--	742	10.8	150	8.6	137	31.2
08..	1450	80513	80513	73.0	18.0	--	742	8.2	112	8.3	147	30.2
08..	1451	80513	80513	73.0	20.0	--	742	3.5	47	7.7	153	29.6
08..	1452	81213	80513	73.0	24.0	--	742	.2	3	7.2	163	28.5
08..	1453	80513	80513	73.0	26.0	--	742	.1	2	7.1	171	27.5
08..	1454	80513	80513	73.0	27.9	--	742	.1	2	7.1	179	26.6
08..	1455	80513	80513	73.0	30.0	--	742	.1	1	7.1	190	25.0
08..	1456	80513	80513	73.0	31.9	--	742	.1	1	7.1	193	23.7
08..	1457	80513	80513	73.0	33.0	--	742	.1	1	7.2	195	22.4
08..	1458	80513	80513	73.0	34.0	--	742	.1	0	7.2	193	21.7
08..	1459	80513	80513	73.0	35.0	--	742	.1	0	7.2	190	20.8
08..	1500	80513	80513	73.0	36.0	--	742	.1	0	7.2	189	20.1
08..	1501	80513	80513	73.0	36.9	--	742	.1	0	7.1	186	19.3
08..	1502	80513	80513	73.0	38.0	--	742	.1	0	7.1	184	18.5
08..	1503	80513	80513	73.0	39.0	--	742	.1	0	7.1	180	17.7
08..	1504	80513	80513	73.0	39.9	--	742	.1	0	7.0	177	17.3
08..	1505	80513	80513	73.0	41.0	--	742	.1	0	7.0	176	16.8
08..	1506	80513	80513	73.0	43.0	--	742	.1	0	7.0	170	16.1
08..	1507	80513	80513	73.0	45.0	--	742	.1	0	7.0	165	14.9
08..	1508	80513	80513	73.0	48.0	--	742	.1	0	7.0	159	13.8
08..	1509	80513	80513	73.0	50.0	--	742	.1	0	6.9	159	12.8
08..	1510	80513	80513	73.0	52.0	--	742	.1	0	6.9	154	11.8
08..	1511	80513	80513	73.0	56.0	--	742	.1	0	6.9	151	10.7
08..	1512	80513	80513	73.0	59.9	--	742	.1	0	6.8	150	10.2
08..	1514	81213	80513	73.0	67.0	--	742	.1	0	6.7	150	9.7
08..	1516	80513	80513	73.0	72.9	--	742	.1	0	6.7	151	9.7
23..	0756	80513	80513	75.0	.10	--	741	6.9	92	8.5	154	28.9
23..	0757	81213	80513	75.0	6.00	1.80	741	6.8	91	8.5	153	28.9
23..	0758	80513	80513	75.0	10.0	--	741	6.7	90	8.5	153	28.9
23..	0759	80513	80513	75.0	20.0	--	741	1.9	25	8.1	170	28.2
23..	0800	80513	80513	75.0	21.0	--	741	.8	11	7.4	171	28.1
23..	0801	81213	80513	75.0	24.0	--	741	.1	1	7.1	193	26.5
23..	0802	80513	80513	75.0	25.0	--	741	.1	1	7.0	197	26.0
23..	0803	80513	80513	75.0	26.0	--	741	.1	1	7.0	201	25.4
23..	0804	80513	80513	75.0	27.0	--	741	.1	0	7.0	206	24.3
23..	0805	80513	80513	75.0	28.0	--	741	.1	0	7.0	207	23.7
23..	0806	80513	80513	75.0	30.0	--	741	.1	0	7.0	207	22.3
23..	0807	80513	80513	75.0	32.0	--	741	.1	0	7.0	206	21.1
23..	0808	80513	80513	75.0	34.0	--	741	.1	0	7.0	202	19.4
23..	0809	80513	80513	75.0	36.0	--	741	.1	0	6.9	197	18.5
23..	0810	80513	80513	75.0	38.0	--	741	.1	0	6.9	193	17.5
23..	0811	80513	80513	75.0	40.0	--	741	.1	0	6.9	181	16.5
23..	0812	80513	80513	75.0	45.0	--	741	.1	0	6.9	181	14.9
23..	0813	80513	80513	75.0	50.0	--	741	.1	0	6.9	174	12.6
23..	0814	80513	80513	75.0	55.0	--	741	.1	0	6.8	166	11.2
23..	0815	80513	80513	75.0	60.0	--	741	.1	0	6.8	168	10.1
23..	0816	80513	80513	75.0	65.0	--	741	.1	0	6.8	166	9.8
23..	0818	81213	80513	75.0	69.0	--	741	.1	0	6.8	167	9.7
23..	0819	80513	80513	75.0	70.0	--	741	.1	0	6.8	167	9.6
23..	0820	80513	80513	75.0	75.0	--	741	.1	0	6.8	167	9.6

07049200 BEAVER LAKE NEAR LOWELL--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER DEG C) (00010)
SEP												
07..	0807	80513	80513	71.0	.20	--	736	6.4	84	7.5	157	27.6
07..	0808	81213	80513	71.0	6.00	2.60	736	6.3	83	7.5	157	27.6
07..	0809	80513	80513	71.0	10.0	--	736	6.3	84	7.5	157	27.6
07..	0810	80513	80513	71.0	20.0	--	736	6.2	81	7.5	157	27.6
07..	0811	81213	80513	71.0	24.0	--	736	.2	3	6.8	169	27.1
07..	0812	80513	80513	71.0	27.0	--	736	.1	2	6.8	185	26.1
07..	0813	80513	80513	71.0	28.0	--	736	.1	1	6.8	191	25.7
07..	0814	80513	80513	71.0	30.0	--	736	.1	1	6.8	200	24.8
07..	0815	80513	80513	71.0	31.0	--	736	.1	0	6.8	205	23.9
07..	0816	80513	80513	71.0	32.0	--	736	.1	1	6.9	209	21.1
07..	0817	80513	80513	71.0	33.0	--	736	.1	0	7.0	209	20.2
07..	0818	80513	80513	71.0	34.0	--	736	.1	0	7.0	206	19.6
07..	0819	80513	80513	71.0	36.0	--	736	.1	0	7.0	204	18.7
07..	0820	80513	80513	71.0	38.0	--	736	.1	0	7.0	199	17.7
07..	0821	80513	80513	71.0	40.0	--	736	.1	0	7.0	193	16.8
07..	0822	80513	80513	71.0	45.0	--	736	.1	0	7.0	185	15.2
07..	0823	80513	80513	71.0	50.0	--	736	.1	0	7.1	178	13.1
07..	0826	80513	80513	71.0	59.0	--	736	.1	0	7.0	171	10.4
07..	0832	81213	80513	71.0	65.0	--	736	.1	0	6.8	176	10
20..	0809	80513	80513	58.0	.000	--	742	6.0	74	7.5	156	24.7
20..	0811	81213	80513	58.0	6.00	2.00	742	5.9	73	7.5	156	24.7
20..	0812	80513	80513	58.0	10.0	--	742	5.9	73	7.5	156	24.7
20..	0813	80513	80513	58.0	20.0	--	742	5.7	71	7.5	157	24.7
20..	0814	81213	80513	58.0	24.0	--	742	5.6	70	7.4	157	24.7
20..	0815	80513	80513	58.0	30.1	--	742	3.1	38	7.2	166	24.4
20..	0816	80513	80513	58.0	32.1	--	742	1.2	15	7.1	175	24.2
20..	0817	80513	80513	58.0	34.0	--	742	.1	2	6.8	191	23.7
20..	0818	80513	80513	58.0	35.9	--	742	.1	1	6.9	207	23.1
20..	0819	80513	80513	58.0	37.9	--	742	.1	1	7.0	206	20.8
20..	0820	80513	80513	58.0	39.9	--	742	.1	0	7.1	203	18.7
20..	0821	80513	80513	58.0	41.7	--	742	.1	0	7.2	196	17.5
20..	0822	80513	80513	58.0	44.0	--	742	.1	0	7.3	192	16.6
20..	0823	80513	80513	58.0	46.0	--	742	.1	0	7.3	187	15.9
20..	0824	80513	80513	58.0	50.0	--	742	.1	0	7.4	179	14.1
20..	0827	81213	80513	58.0	52.1	--	742	.1	0	7.4	180	13.2
20..	0828	80513	80513	58.0	58.0	--	742	.1	0	7.1	172	11.4

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
APR											
19...	0817	6.00	1.8	57	20.0	1.80	4.4	<.1	8.9	86	<.010
19...	0820	24.0	3.2	57	20.0	1.80	4.3	<.1	8.8	83	.012
19...	0830	72.0	5.4	60	21.0	1.90	4.7	<.1	9.6	87	.015
JUN											
01...	0714	6.00	1.3	62	22.0	1.80	4.8	<.1	9.2	88	.014
01...	0718	24.0	1.1	65	23.0	1.80	4.6	<.1	9.0	86	.064
01...	0738	72.0	13	63	22.0	1.90	4.7	<.1	9.4	94	.036
14...	0813	6.10	.7	63	22.0	1.90	5.2	<.1	9.4	80	<.010
14...	0824	24.0	.7	65	23.0	1.90	4.8	<.1	9.2	84	.065
14...	0840	72.1	9.8	66	23.0	2.00	4.7	<.1	9.5	90	.054
JUL											
10...	0822	6.00	.7	63	22.0	1.90	4.8	<.1	9.2	79	.018
10...	0829	24.0	.6	78	28.0	2.00	5.7	<.1	8.9	102	.020
10...	0845	71.1	12	68	24.0	2.00	4.7	<.1	9.4	91	.100
24...	0756	6.20	1.0	58	20.0	1.90	5.2	<.1	9.4	93	.013
24...	0807	24.0	3.6	76	27.0	2.10	5.7	<.1	10.0	116	.165
24...	0833	68.1	14	68	24.0	2.00	4.7	<.1	9.1	107	.224
AUG											
08...	1448	6.00	.3	63	22.0	1.90	4.7	<.1	9.1	82	<.010
08...	1452	24.0	4.4	74	26.0	2.20	5.4	<.1	10.0	101	.230
08...	1514	67.0	5.8	71	25.0	2.10	4.7	<.1	8.7	100	.370
23...	0757	6.00	.6	63	22.0	2.00	5.2	<.1	9.1	77	<.010
23...	0801	24.0	7.2	81	29.0	2.10	5.5	<.1	9.0	105	.300
23...	0818	69.0	15	71	25.0	2.20	4.7	<.1	8.1	94	.550
SEP											
07...	0808	6.00	1.0	66	23.0	2.00	5.2	<.1	9.0	85	.020
07...	0811	24.0	5.4	71	25.0	2.10	5.6	<.1	8.1	107	.280
07...	0832	65.0	26	74	26.0	2.20	4.7	<.1	7.4	108	.800
20...	0811	6.00	2.6	71	25.0	2.10	5.4	<.1	8.9	84	.070
20...	0814	24.0	2.6	71	25.0	2.10	5.5	<.1	9.0	87	.090
20...	0827	52.1	20	79	28.0	2.20	5.1	<.1	5.3	105	.890

07049200 BEAVER LAKE NEAR LOWELL--CONTINUED

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
APR											
19..	.35	--	--	--	1.50	--	<.010	--	1.9	--	<.020
19..	.30	.02	--	--	1.50	--	<.010	.29	1.8	--	<.020
19..	.21	.02	--	--	1.40	--	<.010	.20	1.6	--	<.020
JUN											
01..	.31	.02	--	--	1.00	--	<.010	.30	1.3	--	<.020
01..	.36	.08	--	--	1.10	--	<.010	.30	1.5	--	<.020
01..	.28	.05	--	--	1.30	--	<.010	.24	1.6	--	<.020
14..	.31	--	--	--	.600	--	<.010	--	.91	--	<.020
14..	.27	.08	1.04	4.60	1.10	.197	.060	.21	1.4	--	<.020
14.	.26	.07	--	--	1.20	--	<.010	.21	1.5	--	<.020
JUL											
10..	.22	.02	--	--	.500	--	<.010	.20	.72	--	<.020
10..	.40	.03	.170	.753	.180	.033	.010	.38	.58	--	<.020
10..	.30	.13	.910	4.03	.920	.033	.010	.20	1.2	--	<.020
24..	.33	.02	--	--	.150	--	<.010	.32	.48	--	<.020
24..	.54	.21	--	--	.020	--	<.010	.38	.56	--	<.020
24..	.50	.29	.620	2.74	.640	.066	.020	.28	1.1	--	<.020
AUG											
08..	.30	--	--	--	.270	--	<.010	--	.57	--	<.020
08..	.70	.30	--	--	<.020	--	<.010	.47	--	--	<.020
08..	.60	.48	.380	1.68	.410	.099	.030	.23	1.0	--	<.020
23..	.40	--	--	--	<.020	--	<.010	--	--	--	<.020
23..	.70	.39	--	--	.050	--	<.010	.40	.75	--	<.020
23..	.90	.71	.110	.487	.130	.066	.020	.35	1.0	--	<.020
SEP											
07..	.20	.03	--	--	<.020	--	<.010	.18	--	--	<.020
07..	.60	.36	--	--	<.020	--	<.010	.32	--	--	<.020
07..	1.1	1.03	--	--	<.020	--	<.010	.30	--	.245	.060
20..	.30	.09	--	--	.030	--	<.010	.23	.33	--	<.020
20..	.30	.12	.020	.089	.030	.033	.010	.21	.33	--	<.020
20..	1.2	1.15	--	--	<.020	--	<.010	.31	--	.276	.070

DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
APR									
19...	<.010	<.020	5.0	--	5.4	<1	5.9	50	10
19...	<.010	<.020	3.4	--	3.5	--	--	90	18
19...	<.010	<.020	1.8	--	1.9	--	--	150	69
JUN									
01...	<.010	<.020	2.5	.8	2.7	E3	6.6	20	7
01...	<.010	<.020	2.7	--	2.6	--	--	20	7
01...	<.010	.020	2.7	--	3.2	--	--	400	570
14...	<.010	<.020	2.2	1.0	2.2	<1	6.7	20	8
14...	<.010	<.020	2.8	--	2.7	--	--	30	15
14...	<.010	<.020	2.5	--	1.7	--	--	410	1100
JUL									
10...	<.010	<.020	2.5	.7	2.3	<1	3.1	10	5
10...	<.010	<.020	2.6	--	2.2	--	--	40	49
10...	<.010	<.020	2.4	--	2.0	--	--	550	1590
24...	<.010	<.020	1.6	--	1.2	<1	7.3	20	6
24...	<.010	<.020	1.7	--	1.4	--	--	90	470
24...	<.010	.030	1.4	--	1.2	--	--	940	1900
AUG									
08...	<.010	<.020	2.0	--	1.6	<1	6.1	20	10
08...	<.010	.020	2.5	--	2.1	--	--	700	766
08...	<.010	.030	2.0	--	1.8	--	--	1160	2160
23...	<.010	<.020	1.7	--	1.8	E1	11.0	30	24
23...	<.010	<.020	1.8	--	2.1	--	--	120	1320
23...	<.010	.040	3.2	--	2.7	--	--	1530	2350
SEP									
07...	<.010	<.020	2.6	--	2.9	E1	5.5	30	29
07...	<.010	<.020	2.8	--	2.9	--	--	180	1210
07...	.080	.120	3.2	--	3.2	--	--	2840	2480
20...	<.010	<.020	2.6	.6	2.7	2	5.3	90	47
20...	<.010	<.020	2.8	--	2.5	--	--	M	2
20...	.090	.100	3.0	--	2.8	--	--	2590	2540

Remark codes used in this report:
< -- Less than
E -- Estimated value
Null value remark codes used in this report:
M -- Presence verified, not quantified

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS

LOCATION.--Lat 36°19'56", long 94°01'08", in SE1/4NW1/4 sec.12, T.19 N., R.29 W., Benton County, Hydrologic Unit 11010001, at bridge on State Highway 12, 5.1 mi east of Rogers.

DRAINAGE AREA.--1,020 mi².

PERIOD OF RECORD.--Water years 1950, 1952, 1954, 1959-60, 1963, December 1975 to August 1995, April 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
APR												
18...	1418	80513	80513	110	.000	--	745	10.1	103	8.2	135	15.3
18...	1419	81213	80513	110	6.00	2.20	745	10.2	103	8.2	135	14.7
18...	1421	80513	80513	110	10.0	--	745	10.2	102	8.2	135	14.6
18...	1422	80513	80513	110	20.0	--	745	9.8	98	8.0	135	14.3
18...	1424	80513	80513	110	22.0	--	745	9.2	90	7.8	136	13.2
18...	1425	80513	80513	110	25.0	--	745	9.2	87	7.7	138	11.9
18...	1426	81213	80513	110	30.0	--	745	9.1	84	7.7	140	10.6
18...	1427	80513	80513	110	36.0	--	745	8.9	80	7.6	142	9.6
18...	1428	80513	80513	110	40.0	--	745	8.9	79	7.6	142	9.0
18...	1429	80513	80513	110	50.0	--	745	8.6	74	7.6	148	7.7
18...	1430	80513	80513	110	60.0	--	745	8.6	74	7.7	148	7.6
18...	1431	80513	80513	110	70.0	--	745	8.6	73	7.5	149	7.4
18...	1432	80513	80513	110	80.0	--	745	8.6	73	7.5	149	7.4
18...	1433	80513	80513	110	90.0	--	745	8.5	72	7.4	150	7.2
18...	1434	80513	80513	110	100	--	745	8.3	70	7.4	152	7.1
18...	1436	81213	80513	110	104	--	745	8.2	69	7.3	152	7.0
MAY												
31...	1300	80513	80513	106	.40	--	736	9.9	115	8.2	145	21.1
31...	1301	81213	80513	106	6.10	4.30	736	9.9	115	8.2	145	21.2
31...	1302	80513	80513	106	10.0	--	736	9.8	114	8.2	145	21.1
31...	1304	80513	80513	106	20.1	--	736	9.7	113	8.1	145	20.9
31...	1305	80513	80513	106	24.0	--	736	9.8	112	8.0	146	20.1
31...	1307	80513	80513	106	27.0	--	736	9.1	101	7.8	148	18.6
31...	1309	80513	80513	106	28.0	--	736	8.7	94	7.6	147	17.4
31...	1311	80513	80513	106	29.0	--	736	8.3	88	7.5	147	16.4
31...	1312	80513	80513	106	30.0	--	736	8.1	84	7.4	147	15.8
31...	1313	80513	80513	106	32.0	--	736	7.8	80	7.4	146	15.2
31...	1315	80513	80513	106	38.0	--	736	5.7	57	7.3	144	13.5
31...	1316	80513	80513	106	40.2	--	736	5.2	51	7.2	143	12.8
31...	1317	80513	80513	106	45.1	--	736	5.0	47	7.2	143	11.6
31...	1319	80513	80513	106	47.9	--	736	5.0	47	7.1	143	10.5
31...	1320	80513	80513	106	50.1	--	736	5.1	47	7.2	143	10.3
31...	1321	80513	80513	106	54.0	--	736	5.5	50	7.1	144	9.4
31...	1322	80513	80513	106	58.0	--	736	5.8	51	7.1	146	8.8
31...	1323	80513	80513	106	60.0	--	736	5.8	51	7.1	146	8.8
31...	1324	80513	80513	106	70.1	--	736	5.8	51	7.0	149	8.3
31...	1325	80513	80513	106	80.0	--	736	5.7	50	7.0	151	8.0
31...	1326	80513	80513	106	90.1	--	736	5.7	49	7.0	151	8.0
31...	1327	80513	80513	106	100	--	736	5.3	47	6.9	153	7.8
31...	1329	80513	80513	106	106	--	736	5.2	45	6.9	153	7.8
JUN												
13...	1525	80513	80513	108	.40	--	732	8.6	113	8.4	147	27.2
13...	1526	81213	80513	108	5.90	3.10	732	8.8	114	8.4	146	26.8
13...	1527	80513	80513	108	9.70	--	732	8.9	116	8.4	146	26.6
13...	1528	80513	80513	108	13.2	--	732	9.5	121	8.5	145	25.7
13...	1529	80513	80513	108	13.9	--	732	9.8	125	8.5	146	25.8
13...	1530	80513	80513	108	15.0	--	732	10.5	131	8.6	144	24.3
13...	1531	80513	80513	108	16.9	--	732	10.5	129	8.5	144	23.6
13...	1532	80513	80513	108	20.1	--	732	10.5	128	8.5	144	23.2
13...	1533	80513	80513	108	25.1	--	732	10	120	8.5	144	22.3
13...	1534	80513	80513	108	27.1	--	732	9.7	115	8.4	144	21.6
13...	1535	80513	80513	108	29.0	--	732	7.3	83	7.8	144	19.7
13...	1536	81213	80513	108	30.1	--	732	6.7	75	7.6	144	19.1
13...	1537	80513	80513	108	31.0	--	732	6.1	68	7.5	144	18.6
13...	1538	80513	80513	108	32.0	--	732	5.0	55	7.3	144	17.9
13...	1539	80513	80513	108	33.0	--	732	4.3	45	7.3	142	16.4
13...	1540	80513	80513	108	34.1	--	732	3.9	40	7.2	142	15.8
13...	1541	80513	80513	108	36.0	--	732	3.6	38	7.1	142	15.3
13...	1542	80513	80513	108	38.2	--	732	3.3	33	7.1	141	13.8
13...	1543	80513	80513	108	40.1	--	732	3.2	31	7.1	141	12.8
13...	1544	80513	80513	108	45.0	--	732	3.4	32	7.0	141	11.8
13...	1545	80513	80513	108	50.0	--	732	3.7	35	7.0	142	11.0
13...	1546	80513	80513	108	55.0	--	732	4.3	39	7.0	144	9.8
13...	1547	80513	80513	108	59.9	--	732	4.5	41	7.0	145	9.1
13...	1548	80513	80513	108	70.2	--	732	4.7	42	6.9	146	8.6
13...	1549	80513	80513	108	80.3	--	732	4.4	39	6.9	149	8.2
13...	1550	80513	80513	108	90.2	--	732	4.2	37	6.8	149	8.1
13...	1551	80513	80513	108	100	--	732	3.7	33	6.8	151	8.0
13...	1553	81213	80513	108	102	--	732	3.7	32	6.7	152	7.9
13...	1554	80513	80513	108	108	--	732	3.6	32	6.7	151	7.9

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JUL												
11...	1058	80513	80513	106	.40	--	747	10.2	138	8.2	148	30.4
11...	1059	81213	80513	106	6.10	4.00	747	10.3	140	8.2	148	30.4
11...	1100	80513	80513	106	10.2	--	747	10.4	142	8.2	148	30.2
11...	1101	80513	80513	106	15.0	--	747	11.1	149	8.3	147	29.4
11...	1102	80513	80513	106	18.2	--	747	11.2	149	8.3	147	28.7
11...	1103	80513	80513	106	20.0	--	747	12.1	156	8.4	146	27.6
11...	1104	80513	80513	106	21.0	--	747	12.4	158	8.4	146	26.6
11...	1105	80513	80513	106	22.1	--	747	12.7	159	8.4	145	26.0
11...	1106	80513	80513	106	24.1	--	747	12.8	158	8.4	146	24.8
11...	1107	80513	80513	106	26.2	--	747	12.6	153	8.4	147	24.0
11...	1108	80513	80513	106	28.2	--	747	11.0	131	8.2	149	23.2
11...	1109	81213	80513	106	30.3	--	747	8.2	95	7.7	151	21.7
11...	1110	80513	80513	106	32.0	--	747	4.3	49	7.5	151	20.1
11...	1111	80513	80513	106	34.2	--	747	1.3	14	7.3	149	19.0
11...	1112	80513	80513	106	36.2	--	747	.6	6	7.2	146	17.3
11...	1113	80513	80513	106	38.0	--	747	.6	7	7.2	145	16.3
11...	1114	80513	80513	106	40.1	--	747	1.3	13	7.2	142	14.8
11...	1115	80513	80513	106	41.9	--	747	.9	9	7.1	142	14.4
11...	1116	80513	80513	106	45.1	--	747	.6	6	7.1	142	13.3
11...	1117	80513	80513	106	48.2	--	747	.8	8	7.0	141	12.1
11...	1118	80513	80513	106	50.1	--	747	.9	8	7.0	142	11.7
11...	1119	80513	80513	106	54.9	--	747	1.4	13	6.9	142	10.4
11...	1120	80513	80513	106	60.1	--	747	2.1	19	6.9	144	9.7
11...	1121	80513	80513	106	69.9	--	747	3.1	28	6.9	145	8.9
11...	1122	80513	80513	106	80.1	--	747	3.3	28	6.8	147	8.6
11...	1123	80513	80513	106	90.1	--	747	2.7	24	6.8	149	8.3
11...	1124	81213	80513	106	100	--	747	1.8	16	6.7	153	8.2
11...	1126	80513	80513	106	105	--	747	1.6	14	6.7	154	8.2
25...	1030	80513	80513	106	.20	--	739	7.5	106	8.2	156	31.3
25...	1031	80020	80513	106	6.00	4.00	739	7.6	106	8.2	155	31.1
25...	1032	80513	80513	106	10.4	--	739	7.6	106	8.2	155	31.0
25...	1035	80513	80513	106	16.1	--	739	9.0	124	8.4	152	30.0
25...	1036	80513	80513	106	20.1	--	739	8.8	119	8.3	153	29.0
25...	1038	80513	80513	106	22.1	--	739	8.4	111	8.2	152	28.1
25...	1039	80513	80513	106	24.1	--	739	8.4	109	8.2	155	27.1
25...	1040	80513	80513	106	26.0	--	739	8.1	104	8.1	156	26.5
25...	1042	80513	80513	106	27.1	--	739	7.2	90	7.9	162	25.5
25...	1043	80513	80513	106	28.0	--	739	6.5	81	7.6	164	24.8
25...	1044	80513	80513	106	29.1	--	739	5.1	63	7.4	168	24.2
25...	1045	81213	80513	106	30.0	--	739	4.2	51	7.3	169	23.8
25...	1046	80513	80513	106	31.0	--	739	2.8	34	7.1	171	22.9
25...	1047	80513	80513	106	32.0	--	739	1.8	21	7.0	166	21.9
25...	1049	80513	80513	106	34.0	--	739	.8	9	6.9	162	20.5
25...	1050	80513	80513	106	36.1	--	739	.3	4	6.8	158	19.2
25...	1051	80513	80513	106	37.0	--	739	.2	2	6.8	156	18.4
25...	1052	80513	80513	106	38.1	--	739	.1	1	6.8	153	17.5
25...	1053	80513	80513	106	39.0	--	739	.1	0	6.7	154	16.8
25...	1054	80513	80513	106	40.0	--	739	.1	0	6.7	151	16.2
25...	1055	80513	80513	106	42.0	--	739	.1	0	6.7	151	15.3
25...	1056	80513	80513	106	44.1	--	739	.1	0	6.6	148	14.2
25...	1057	80513	80513	106	46.2	--	739	.1	0	6.6	149	12.9
25...	1058	80513	80513	106	49.0	--	739	.1	0	6.6	148	11.9
25...	1059	80513	80513	106	50.0	--	739	.1	0	6.6	148	11.8
25...	1100	80513	80513	106	51.9	--	739	.1	0	6.5	148	11.1
25...	1101	80513	80513	106	55.0	--	739	.1	1	6.5	149	10.4
25...	1102	80513	80513	106	60.0	--	739	.7	6	6.5	149	9.8
25...	1103	80513	80513	106	64.1	--	739	1.4	12	6.5	151	8.9
25...	1104	80513	80513	106	69.6	--	739	1.0	9	6.5	152	8.7
25...	1106	80513	80513	106	80.0	--	739	.8	7	6.4	154	8.4
25...	1107	80513	80513	106	90.1	--	739	.6	5	6.3	155	8.2
25...	1108	81213	80513	106	100	--	739	.1	0	6.3	156	8.2
25...	1109	80513	80513	106	105	--	739	.1	1	6.3	156	8.2
AUG												
08...	1218	80513	80513	104	.000	--	742	9.9	138	8.5	141	31.6
08...	1219	80020	80513	104	6.00	2.20	742	9.8	136	8.4	141	31.1
08...	1220	80513	80513	104	9.90	--	742	9.8	136	8.4	141	31.1
08...	1221	80513	80513	104	19.9	--	742	10.4	142	8.4	143	30.2
08...	1222	80513	80513	104	22.0	--	742	9.4	126	8.2	147	29.4
08...	1223	80513	80513	104	24.0	--	742	7.4	98	7.8	152	28.6
08...	1224	80513	80513	104	26.0	--	742	4.2	55	7.3	159	27.4
08...	1225	80513	80513	104	28.1	--	742	2.0	25	7.2	163	26.2
08...	1226	80513	80513	104	30.0	--	742	.7	9	7.1	165	24.8
08...	1227	80513	80513	104	31.9	--	742	.2	2	7.0	162	23.9
08...	1228	80513	80513	104	32.9	--	742	.1	2	7.0	159	22.9
08...	1229	80513	80513	104	34.0	--	742	.1	1	7.0	157	22.0
08...	1230	80513	80513	104	35.1	--	742	.1	1	7.0	152	20.7
08...	1231	80513	80513	104	37.1	--	742	.1	1	7.0	147	19.4
08...	1232	80513	80513	104	37.9	--	742	.1	0	6.9	145	18.9
08...	1233	80513	80513	104	40.2	--	742	.1	0	6.9	141	17.1
08...	1234	80513	80513	104	43.9	--	742	.1	0	6.9	138	15.3
08...	1235	80513	80513	104	46.9	--	742	.1	0	7.0	137	13.8
08...	1236	80513	80513	104	49.8	--	742	.1	0	6.9	136	12.8
08...	1237	80513	80513	104	53.0	--	742	.1	0	6.9	136	11.6
08...	1238	80513	80513	104	57.0	--	742	.1	0	6.9	138	10.7
08...	1239	80513	80513	104	60.0	--	742	.1	0	6.8	138	10.1
08...	1240	80513	80513	104	70.0	--	742	.1	0	6.8	140	9.1
08...	1241	80513	80513	104	79.9	--	742	.1	0	6.7	142	8.6
08...	1242	80513	80513	104	90.1	--	742	.1	0	6.7	142	8.4
08...	1243	81213	80513	104	98.0	--	742	.1	0	6.6	144	8.4
08...	1244	80513	80513	104	100	--	742	.1	0	6.6	146	8.3

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
AUG												
22...	1226	80513	80513	104	.40	--	744	7.5	100	8.7	153	29.3
22...	1227	81213	80513	104	6.00	2.40	744	7.4	99	8.6	153	29.1
22...	1228	80513	80513	104	10.0	--	744	7.4	99	8.6	154	29.1
22...	1229	80513	80513	104	20.0	--	744	7.2	97	8.6	154	29.0
22...	1231	80513	80513	104	25.0	--	744	7.1	95	8.6	154	28.9
22...	1232	80513	80513	104	26.0	--	744	6.2	82	8.3	156	28.1
22...	1233	80513	80513	104	27.0	--	744	5.8	74	7.9	158	26.8
22...	1234	80513	80513	104	28.0	--	744	5.5	70	7.7	159	25.7
22...	1235	80513	80513	104	29.0	--	744	5.4	67	7.6	159	25.1
22...	1236	81213	80513	104	30.0	--	744	4.5	55	7.5	159	24.5
22...	1237	80513	80513	104	32.0	--	744	2.7	33	7.3	159	23.6
22...	1238	80513	80513	104	34.0	--	744	1.4	17	7.2	157	22.8
22...	1239	80513	80513	104	36.0	--	744	.2	2	7.1	158	20.8
22...	1240	80513	80513	104	38.0	--	744	.1	2	7.0	156	19.3
22...	1241	80513	80513	104	40.0	--	744	.1	1	7.0	151	18.1
22...	1242	80513	80513	104	43.0	--	744	.1	1	6.9	147	16.2
22...	1243	80513	80513	104	45.0	--	744	.1	0	6.9	149	15.0
22...	1244	80513	80513	104	47.0	--	744	.1	0	6.8	148	13.8
22...	1245	80513	80513	104	50.0	--	744	.1	0	6.8	147	12.7
22...	1246	80513	80513	104	55.0	--	744	.1	0	6.8	148	11.4
22...	1247	80513	80513	104	60.0	--	744	.1	0	6.8	150	10.2
22...	1248	80513	80513	104	65.0	--	744	.1	0	6.8	149	9.5
22...	1249	80513	80513	104	70.0	--	744	.1	0	6.8	152	9.1
22...	1250	80513	80513	104	80.0	--	744	.1	0	6.8	151	8.5
22...	1251	80513	80513	104	90.0	--	744	.1	0	6.8	156	8.3
22...	1255	81213	80513	104	98.0	--	744	.1	0	6.8	156	8.3
22...	1256	80513	80513	104	104	--	744	.1	0	6.8	157	8.2
SEP												
06...	1255	80513	80513	103	.30	--	740	8.4	112	8.4	152	28.3
06...	1256	80020	80513	103	6.00	3.20	740	8.4	111	8.3	152	28.3
06...	1301	81213	80513	103	30.0	--	740	--	--	--	--	--
06...	1304	80513	80513	103	34.0	--	740	.1	1	6.9	166	24.2
06...	1305	80513	80513	103	36.0	--	740	.1	1	6.9	169	22.7
06...	1306	80513	80513	103	38.0	--	740	.1	0	6.9	169	21.1
06...	1307	80513	80513	103	40.0	--	740	.1	0	7.0	169	19.2
06...	1308	80513	80513	103	42.0	--	740	.1	0	7.1	154	17.3
06...	1309	80513	80513	103	45.0	--	740	.1	0	7.1	149	15.4
06...	1310	80513	80513	103	48.0	--	740	.1	0	7.1	147	14.3
06...	1311	80513	80513	103	50.0	--	740	.1	0	7.1	148	13.4
06...	1312	80513	80513	103	55.0	--	740	.1	0	7.1	148	12.0
06...	1313	80513	80513	103	60.0	--	740	.1	0	7.1	150	10.9
06...	1314	80513	80513	103	65.0	--	740	.1	0	7.0	151	9.9
06...	1315	80513	80513	103	70.0	--	740	.1	0	7.0	152	9.5
06...	1316	80513	80513	103	75.0	--	740	.1	0	6.9	153	9.0
06...	1317	80513	80513	103	80.0	--	740	.1	0	6.9	154	8.8
06...	1318	80513	80513	103	90.0	--	740	.1	0	6.8	156	8.6
06...	1320	81213	80513	103	97.0	--	740	.1	0	6.6	158	8.5
06...	1321	80513	80513	103	103	--	740	.1	0	6.6	158	8.5
19...	1328	80513	80513	102	.60	--	740	7.4	92	7.9	149	24.9
19...	1329	81213	80513	102	6.00	2.00	740	7.4	92	7.8	149	24.9
19...	1330	80513	80513	102	10.1	--	740	7.4	92	7.9	149	24.9
19...	1331	80513	80513	102	20.3	--	740	7.4	92	7.8	149	24.9
19...	1332	81213	80513	102	30.0	--	740	7.3	91	7.8	147	24.8
19...	1333	80513	80513	102	33.9	--	740	1.6	19	7.1	158	23.6
19...	1334	80513	80513	102	35.4	--	740	.2	2	6.9	173	21.5
19...	1335	80513	80513	102	37.1	--	740	.1	1	6.9	170	20.0
19...	1336	80513	80513	102	38.1	--	740	.1	1	7.0	157	18.7
19...	1337	80513	80513	102	40.1	--	740	.1	1	7.0	154	17.2
19...	1338	80513	80513	102	42.0	--	740	.1	0	7.0	150	16.5
19...	1339	80513	80513	102	44.0	--	740	.1	0	7.0	148	15.4
19...	1340	80513	80513	102	45.9	--	740	.1	0	7.0	146	14.4
19...	1341	80513	80513	102	48.4	--	740	.1	0	7.0	144	13.8
19...	1342	80513	80513	102	50.0	--	740	.1	0	7.0	146	13.0
19...	1343	80513	80513	102	52.9	--	740	.1	0	7.1	146	12.1
19...	1344	80513	80513	102	55.9	--	740	.1	0	7.1	146	11.5
19...	1345	80513	80513	102	59.7	--	740	.1	0	7.1	147	10.8
19...	1346	80513	80513	102	70.3	--	740	.1	0	7.1	149	9.6
19...	1347	80513	80513	102	79.9	--	740	.1	0	7.1	151	9.0
19...	1348	80513	80513	102	89.7	--	740	.1	0	7.1	151	8.8
19...	1350	81213	80513	102	96.0	--	740	--	--	--	--	--
19...	1351	80513	80513	102	100	--	740	.1	0	7.1	153	8.7
19...	1352	80513	80513	102	102	--	740	.1	0	7.0	153	8.7

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS--CONTINUED

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
APR											
18...	1419	6.00	2.20	2.0	60	21.0	1.80	4.2	<.1	8.6	85
18...	1426	30.0	--	2.0	63	22.0	1.90	4.6	<.1	9.1	85
18...	1436	104	--	2.5	68	24.0	2.00	2.6	<.1	5.4	93
MAY											
31...	1301	6.10	4.30	.8	63	22.0	1.90	4.4	<.1	8.9	81
31...	1312	30.0	--	1.1	63	22.0	2.00	4.2	<.1	8.6	84
31...	1327	100	--	2.6	66	23.0	2.00	4.8	<.1	9.7	96
JUN											
13...	1526	5.90	3.10	.4	63	22.0	1.90	4.5	<.1	8.9	82
13...	1536	30.1	--	.4	63	22.0	1.90	4.4	<.1	8.9	85
13...	1553	102	--	2.7	68	24.0	2.00	4.7	<.1	9.5	93

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
APR									
18...	<.010	.30	--	1.40	<.010	--	1.7	<.020	<.010
18...	<.010	.24	--	1.30	<.010	--	1.5	<.020	<.010
18...	.011	.29	.01	1.10	<.010	.28	1.4	<.020	<.010
MAY									
31...	<.010	.25	--	1.10	<.010	--	1.4	<.020	<.010
31...	.034	.30	.04	.790	<.010	.27	1.1	<.020	<.010
31...	.028	.25	.04	1.10	<.010	.22	1.4	<.020	<.010
JUN									
13...	.012	.21	.02	.870	<.010	.20	1.1	<.020	<.010
13...	.053	.26	.07	1.10	<.010	.21	1.4	<.020	<.010
13...	.023	.21	.03	1.00	<.010	.19	1.2	<.020	<.010

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE TOTAL RECOVERABLE (UG/L AS MN) (01055)
APR								
18...	.020	1.4	--	1.6	<1	3.3	70	13
18...	<.020	2.2	--	2.2	--	--	60	13
18...	<.020	1.7	--	2.2	--	--	60	120
MAY								
31...	<.020	2.2	.6	2.6	E7	3.3	10	3
31...	<.020	2.2	--	1.9	--	--	20	6
31...	<.020	2.1	--	1.8	--	--	60	380
JUN								
13...	<.020	2.6	.6	2.4	<1	2.3	10	4
13...	<.020	2.2	--	2.4	--	--	20	7
13...	<.020	2.1	--	.60	--	--	80	680

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
JUL											
11...	1059	6.10	4.00	.5	63	22.0	1.90	4.4	<.1	8.8	80
11...	1109	30.3	--	.7	65	23.0	1.90	4.7	<.1	9.1	88
11...	1124	100	--	3.5	68	24.0	2.00	4.7	<.1	9.3	95
25...	1031	6.00	4.00	.3	65	23.0	1.90	4.3	<.1	8.6	105
25...	1045	30.0	--	1.1	73	26.0	2.00	5.1	<.1	9.2	108
25...	1108	100	--	3.9	69	24.0	2.10	4.5	<.1	9.2	97
AUG											
08...	1219	6.00	2.20	5.8	65	23.0	1.90	4.3	<.1	8.6	82
08...	1226	30.0	--	.4	71	25.0	2.00	5.1	<.1	9.3	88
08...	1243	98.0	--	1.6	69	24.0	2.10	4.7	<.1	9.3	93
22...	1227	6.00	2.40	.4	66	23.0	2.00	4.6	<.1	8.8	85
22...	1236	30.0	--	.4	68	24.0	1.90	4.8	<.1	8.9	91
22...	1255	98.0	--	4.9	69	24.0	2.10	22.0	<.1	9.6	99
SEP											
06...	1256	6.00	3.20	.4	66	23.0	2.00	4.6	<.1	8.8	89
06...	1301	30.0	--	.7	68	24.0	2.00	4.8	<.1	9.0	95
06...	1320	97.0	--	--	--	--	--	--	--	--	100
19...	1329	6.00	2.00	.9	68	24.0	2.00	4.5	<.1	8.8	86
19...	1332	30.0	--	1.6	68	24.0	2.00	4.5	<.1	8.8	85
19...	1350	96.0	--	8.7	71	25.0	2.10	4.6	<.1	8.7	98

07049500 BEAVER LAKE AT HIGHWAY 12 BRIDGE NEAR ROGERS--CONTINUED

DATE	TIME	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NTROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/ AS N (00605)
JUL										
11...	1059	<.010	<.20	--	--	--	.660	--	<.010	--
11...	1109	.024	.27	.03	.830	3.67	.860	.099	.030	.25
11...	1124	.062	<.20	.08	--	--	.860	--	<.010	--
25...	1031	<.010	.22	--	--	--	.510	--	<.010	--
25...	1045	.059	.30	.08	.470	2.08	.490	.066	.020	.24
25...	1108	.070	.30	.09	--	--	.830	--	<.010	.23
AUG										
08...	1219	<.010	.30	--	--	--	.420	--	<.010	--
08...	1226	.030	.40	.04	--	--	.210	--	<.010	.37
08...	1243	.100	.30	.13	.830	3.67	.840	.033	.010	.20
22...	1227	<.010	.30	--	--	--	.300	--	<.010	--
22...	1236	.030	.20	.04	.450	1.99	.470	.066	.020	.17
22...	1255	.200	.40	.26	.740	3.28	.770	.099	.030	.20
SEP										
06...	1256	<.010	.20	--	--	--	.260	--	<.010	--
06...	1301	.100	.30	.13	--	--	.330	--	<.010	.20
06...	1320	--	--	--	--	--	--	--	--	--
19...	1329	<.010	<.20	--	--	--	.240	--	<.010	--
19...	1332	.010	<.20	.01	--	--	.250	--	<.010	--
19...	1350	.340	.50	.44	.510	2.26	.540	.099	.030	.16

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
JUL											
11...	--	<.020	<.010	<.020	2.2	--	1.8	<1	<.1	M	4
11...	1.1	<.020	<.010	<.020	2.4	--	1.8	--	--	30	22
11...	--	<.020	<.010	<.020	2.4	--	2.1	--	--	80	1100
25...	.73	<.020	<.010	<.020	1.8	--	1.4	<1	1.4	20	7
25...	.79	<.020	<.010	<.020	1.2	--	1.0	--	--	30	--
25...	1.1	<.020	<.010	<.020	2.3	--	1.9	--	--	70	424
AUG											
08...	.72	<.020	<.010	<.020	2.0	--	1.8	E3	2.8	20	10
08...	.61	<.020	<.010	<.020	2.1	--	2.1	--	--	40	29
08...	1.1	<.020	<.010	<.020	2.1	--	1.8	--	--	40	427
22...	.60	<.020	<.010	<.020	2.5	--	2.4	E1	3.6	20	12
22...	.67	<.020	<.010	<.020	2.6	--	2.4	--	--	20	16
22...	1.2	<.020	<.010	<.020	2.9	--	2.6	--	--	130	1310
SEP											
06...	.46	<.020	<.010	<.020	2.1	--	2.3	<1	5.4	10	8
06...	.63	<.020	<.010	<.020	2.1	--	2.1	--	--	30	30
19...	--	<.020	<.010	<.020	3.0	.6	3.1	<1	5.2	50	22
19...	--	<.020	<.010	<.020	2.8	--	2.8	--	--	70	30
19...	1.0	<.020	<.010	<.020	2.9	--	2.8	--	--	520	1980

Remark codes used in this report:
< -- Less than
E -- Estimated value
Null value remark codes used in this report:
M -- Presence verified, not quantified

07049563 PRAIRIE CREEK NORTHEAST OF ROGERS

LOCATION.--Lat 36°20'25", long 95°05'51", in NW1/4NW1/4 sec.8, T.19 N., R.29 W., Benton County, Hydrologic Unit 1101001, at county road 1.3 mi northeast of Rogers. (Please note--this site was published in the 2000 water year data report with an incorrect location. All other data were correct.)

DRAINAGE AREA.--2.6 mi^2.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.-Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	9.4	3.6	2.8	4.0	7.5	4.6	2.9	3.8	2.8	e11	2.0
2	2.8	7.3	3.1	2.8	3.7	7.5	4.6	2.9	4.6	2.9	e10	2.2
3	3.1	7.2	2.8	2.9	3.8	7.4	5.2	2.9	3.7	2.9	e9.4	2.1
4	3.5	7.2	2.9	2.9	3.6	6.6	4.7	2.9	3.7	2.9	e8.6	2.6
5	4.2	6.7	2.8	2.9	3.5	6.4	4.9	2.9	3.7	3.5	e9.8	2.4
6	3.3	9.7	2.9	3.1	3.6	6.4	4.8	2.9	3.6	2.9	e11	2.5
7	3.1	4.7	2.7	3.1	3.9	6.9	4.4	3.1	3.7	2.9	e9.9	2.0
8	2.9	4.7	2.7	3.1	3.9	7.5	4.4	3.7	3.6	2.8	e8.6	3.5
9	2.9	4.2	2.9	3.1	4.8	7.7	4.0	4.3	3.7	2.8	4.6	4.0
10	2.9	3.5	2.8	3.3	4.1	8.4	4.1	4.2	3.7	2.8	4.7	2.3
11	2.8	3.0	3.1	4.1	3.5	8.7	4.1	5.5	3.7	2.8	5.5	2.2
12	2.9	3.3	2.4	3.7	3.7	9.8	3.0	4.5	3.6	2.8	4.3	2.2
13	3.1	3.0	3.8	3.9	6.2	8.9	3.1	4.3	3.6	4.2	3.7	2.2
14	3.4	2.8	2.2	4.0	8.3	9.2	3.0	4.2	4.7	2.3	3.6	2.3
15	3.8	2.7	2.8	3.7	13	8.2	4.3	4.0	5.8	2.2	3.2	2.2
16	4.1	2.3	3.3	3.7	9.1	5.5	3.1	4.2	3.8	6.3	3.0	2.5
17	3.9	2.2	2.4	3.6	6.6	5.4	2.8	5.6	3.7	3.4	3.2	4.0
18	4.5	2.2	2.3	2.8	5.7	5.4	3.2	6.2	3.7	2.6	3.6	4.6
19	e5.0	2.2	2.2	2.5	5.5	5.4	3.7	4.5	3.2	2.5	2.5	3.7
20	6.4	2.2	2.2	2.3	5.4	5.4	3.6	7.0	2.8	2.8	2.3	3.6
21	7.4	2.2	2.2	2.3	5.0	5.4	3.6	8.7	4.8	2.8	2.1	3.7
22	8.1	2.2	2.2	2.4	4.5	5.6	3.6	5.4	3.0	2.9	2.0	3.6
23	7.5	3.3	2.2	e3.7	6.3	5.9	3.9	4.7	2.8	3.2	1.8	3.1
24	9.1	4.1	2.2	e4.5	e66	5.7	3.6	4.4	2.8	3.2	2.1	2.9
25	9.2	4.8	2.4	2.8	e15	5.5	2.9	4.2	2.8	2.8	2.4	2.9
26	8.3	3.9	3.0	3.3	e14	5.4	3.0	3.5	2.9	2.8	2.7	3.1
27	8.4	3.7	2.2	3.1	e13	5.1	3.0	3.5	3.3	2.6	2.2	3.9
28	7.7	3.7	2.2	3.6	8.5	4.6	2.9	3.6	2.9	4.9	3.2	3.8
29	8.5	3.7	2.3	8.6	---	4.5	2.9	3.7	2.8	4.4	3.6	3.7
30	9.0	3.7	2.4	5.6	---	4.6	2.9	6.8	2.9	e8.6	1.9	3.7
31	9.8	---	2.8	4.5	---	4.7	---	4.6	---	e12	1.9	---
TOTAL	164.9	125.8	82.0	108.7	238.2	201.2	111.9	135.8	107.4	111.3	148.4	89.5
MEAN	5.32	4.19	2.65	3.51	8.51	6.49	3.73	4.38	3.58	3.59	4.79	2.98
MAX	9.8	9.7	3.8	8.6	66	9.8	5.2	8.7	5.8	12	11	4.6
MIN	2.8	2.2	2.2	2.3	3.5	4.5	2.8	2.9	2.8	2.2	1.8	2.0
AC-FT	327	250	163	216	472	399	222	269	213	221	294	178

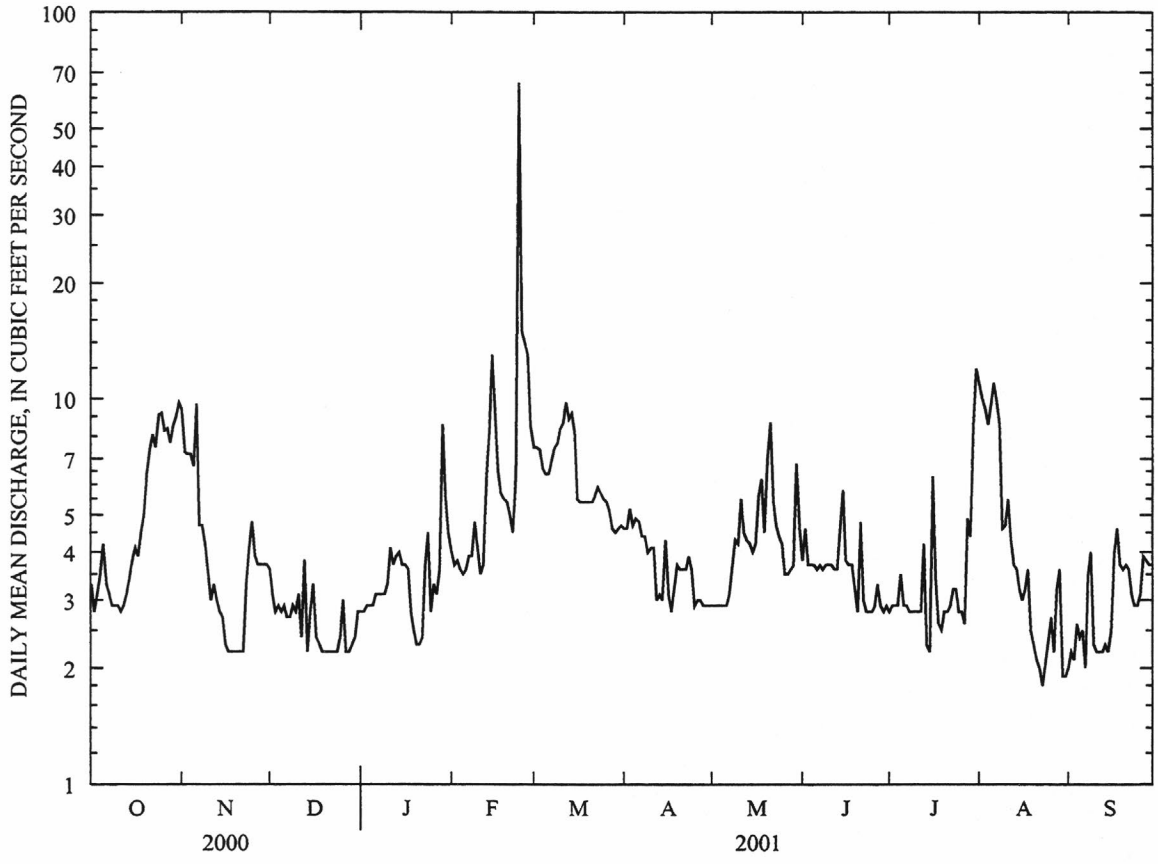
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	5.32	4.19	2.65	3.51	8.51	6.49	3.73	4.61	8.47	4.40	3.86	2.84
MAX	5.32	4.19	2.65	3.51	8.51	6.49	3.73	4.84	13.4	5.22	4.79	2.98
(WY)	2001	2001	2001	2001	2001	2001	2001	2000	2000	2000	2001	2001
MIN	5.32	4.19	2.65	3.51	8.51	6.49	3.73	4.38	3.58	3.59	2.93	2.69
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000	2000

07049563 PRAIRIE CREEK NORTHEAST OF ROGERS--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	1625.1			
ANNUAL MEAN	4.45		4.45	
HIGHEST ANNUAL MEAN			4.45	2001
LOWEST ANNUAL MEAN			4.45	2001
HIGHEST DAILY MEAN	66	Feb 24	81	Jun 21 2000
LOWEST DAILY MEAN	1.8	Aug 23	.84	Jun 5 2000
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 30	1.8	Sep 16 2000
MAXIMUM PEAK FLOW	117	Feb 24	243	May 23 2000
MAXIMUM PEAK STAGE	2.04	Feb 24	2.25	May 23 2000
INSTANTANEOUS LOW FLOW	.00	Dec 18,20	.00	Dec 18,20 2000
ANNUAL RUNOFF (AC-FT)	3220		3230	
10 PERCENT EXCEEDS	7.9		8.3	
50 PERCENT EXCEEDS	3.6		3.6	
90 PERCENT EXCEEDS	2.3		2.2	

[e]Estimated



07049690 BEAVER LAKE NEAR EUREKA SPRINGS

LOCATION.--Lat 36°25'15", long 93°50'50", in NW1/4NW1/4 sec.10, T.20 N., R.27 W., Carroll County, Hydrologic Unit 11010001, at dam on White River, 6.0 mi west of Eureka Springs, and at mile 609.0.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT												
10..	1133	80513	80513	175	.000	4.50	751	7.0	78	7.4	148	20.2
10..	1134	80513	80513	175	10.0	--	751	6.9	78	7.4	148	20.1
10..	1135	80513	80513	175	20.0	--	751	6.9	77	7.4	148	20.2
10..	1136	80513	80513	175	30.0	--	751	6.9	77	7.4	148	20.2
10..	1137	80513	80513	175	40.0	--	751	6.8	76	7.3	148	20.2
10..	1138	80513	80513	175	50.0	--	751	6.7	75	7.3	147	20.2
10..	1140	80513	80513	175	60.0	--	751	.3	3	7.0	141	19.2
10..	1141	80513	80513	175	65.0	--	751	.2	2	7.0	144	18.4
10..	1142	80513	80513	175	70.0	--	751	.9	10	7.0	149	17.8
10..	1143	80513	80513	175	76.0	--	751	1.5	16	7.0	150	16.9
10..	1144	80513	80513	175	80.0	--	751	1.7	18	7.0	150	16.4
10..	1145	80513	80513	175	86.0	--	751	1.9	20	7.0	150	15.2
10..	1146	80513	80513	175	90.0	--	751	2.0	20	7.1	150	14.6
10..	1147	80513	80513	175	100	--	751	1.8	17	7.1	149	13.0
10..	1148	80513	80513	175	110	--	751	1.0	9	7.1	150	12.0
10..	1149	80513	80513	175	120	--	751	.2	2	7.1	151	11.2
10..	1150	80513	80513	175	130	--	751	.1	1	7.2	153	10.6
10..	1151	80513	80513	175	140	--	751	.1	0	7.1	154	10.2
10..	1152	80513	80513	175	150	--	751	.1	0	7.1	152	9.7
10..	1153	80513	80513	175	160	--	751	.1	0	7.1	155	9.5
10..	1154	80513	80513	175	170	--	751	.1	0	7.1	157	9.3
10..	1155	80513	80513	175	175	--	751	.1	0	7.1	158	9.3
NOV												
07..	1148	80513	80513	172	.000	3.70	750	7.8	85	7.0	145	18.2
07..	1149	80513	80513	172	10.0	--	750	7.7	83	7.1	145	18.4
07..	1150	80513	80513	172	20.0	--	750	7.6	82	7.2	145	18.4
07..	1151	80513	80513	172	30.0	--	750	7.5	81	7.2	145	18.4
07..	1152	80513	80513	172	40.0	--	750	7.5	81	7.2	145	18.5
07..	1153	80513	80513	172	50.0	--	750	7.5	81	7.2	145	18.5
07..	1154	80513	80513	172	60.0	--	750	7.4	81	7.2	144	18.5
07..	1155	80513	80513	172	70.0	--	750	7.4	80	7.3	145	18.5
07..	1156	80513	80513	172	74.0	--	750	4.6	50	7.2	146	18.1
07..	1157	80513	80513	172	75.0	--	750	.6	6	7.0	148	17.0
07..	1158	80513	80513	172	80.0	--	750	.8	8	7.0	149	16.1
07..	1159	80513	80513	172	90.0	--	750	1.1	11	7.0	148	14.4
07..	1200	80513	80513	172	100	--	750	1.1	10	7.1	148	13.1
07..	1201	80513	80513	172	110	--	750	.6	6	7.1	149	12.3
07..	1202	80513	80513	172	120	--	750	.2	1	7.1	151	11.4
07..	1203	80513	80513	172	130	--	750	.1	1	7.1	154	10.6
07..	1204	80513	80513	172	140	--	750	.2	2	7.5	153	10.1
07..	1205	80513	80513	172	150	--	750	.1	1	7.2	153	9.8
07..	1206	80513	80513	172	160	--	750	.1	1	7.2	156	9.5
07..	1207	80513	80513	172	170	--	750	.1	1	7.2	159	9.3
07..	1208	80513	80513	172	172	--	750	.1	1	7.2	159	9.3
MAR												
27..	1103	80513	80513	182	1.00	5.40	754	10.8	92	7.0	142	7.9
27..	1104	80513	80513	182	10.0	--	754	10.8	91	7.0	142	7.6
27..	1105	80513	80513	182	20.0	--	754	10.7	89	7.1	142	7.3
27..	1106	80513	80513	182	30.0	--	754	10.7	89	7.1	142	7.1
27..	1107	80513	80513	182	40.0	--	754	10.4	87	7.1	142	7.0
27..	1108	80513	80513	182	50.0	--	754	10.6	88	7.1	142	6.9
27..	1109	80513	80513	182	60.0	--	754	10.3	85	7.1	141	6.8
27..	1110	80513	80513	182	70.0	--	754	10.3	85	7.1	141	6.5
27..	1111	80513	80513	182	80.0	--	754	10.3	84	7.1	140	6.2
27..	1112	80513	80513	182	90.0	--	754	10.0	81	7.1	140	6.2
27..	1113	80513	80513	182	100	--	754	9.9	81	7.1	140	6.1
27..	1114	80513	80513	182	110	--	754	10.1	82	7.1	140	6.1
27..	1115	80513	80513	182	120	--	754	10.0	82	7.1	140	6.1
27..	1116	80513	80513	182	130	--	754	9.8	79	7.1	140	6.1
27..	1117	80513	80513	182	140	--	754	9.8	80	7.1	140	6.0
27..	1118	80513	80513	182	150	--	754	9.8	79	7.0	140	6.0
27..	1119	80513	80513	182	160	--	754	9.5	77	7.0	140	6.0
27..	1120	80513	80513	182	170	--	754	9.6	78	7.0	140	6.0
27..	1121	80513	80513	182	180	--	754	9.4	77	7.0	140	6.0
27..	1122	80513	80513	182	182	--	754	9.2	75	7.0	140	6.1
APR												
18..	0908	80513	80513	182	1.00	--	747	10.0	99	7.7	150	13.6
18..	0909	81213	80513	182	6.00	6.80	747	10.6	103	7.7	149	13.0
18..	0911	80513	80513	182	10.0	--	747	10.7	103	7.7	149	12.8
18..	0913	80513	80513	182	20.0	--	747	10.7	102	7.7	148	12.3
18..	0915	81213	80513	182	30.0	--	747	10.8	102	7.7	148	11.6
18..	0917	80513	80513	182	35.0	--	747	11.0	101	7.7	147	10.4
18..	0919	80513	80513	182	40.0	--	747	11.0	99	7.7	146	9.8
18..	0921	80513	80513	182	41.0	--	747	11.1	98	7.8	146	9.4
18..	0922	80513	80513	182	45.0	--	747	11.1	98	7.7	146	8.8
18..	0923	80513	80513	182	50.0	--	747	10.9	94	7.7	150	8.3
18..	0924	80513	80513	182	60.0	--	747	10.7	91	7.7	145	7.5
18..	0925	80513	80513	182	70.0	--	747	10.4	87	7.6	144	6.9
18..	0927	80513	80513	182	80.0	--	747	10.2	85	7.5	144	6.7
18..	0928	80513	80513	182	90.0	--	747	10.1	83	7.5	143	6.5
18..	0929	80513	80513	182	100	--	747	9.9	82	7.4	143	6.4
18..	0930	80513	80513	182	110	--	747	9.9	82	7.4	143	6.3
18..	0931	80513	80513	182	120	--	747	9.9	82	7.4	143	6.3
18..	0932	80513	80513	182	130	--	747	10.0	83	7.4	143	6.2
18..	0933	80513	80513	182	140	--	747	9.9	82	7.3	143	6.2
18..	0934	80513	80513	182	150	--	747	9.9	82	7.3	143	6.2
18..	0935	80513	80513	182	160	--	747	9.7	80	7.3	143	6.2
18..	0936	80513	80513	182	170	--	747	9.6	79	7.3	143	6.2
18..	0938	81213	80513	182	176	--	747	9.6	79	7.2	143	6.1
18..	0939	80513	80513	182	180	--	747	9.6	79	7.3	143	6.2
18..	0944	80513	80513	182	182	--	747	9.6	79	7.2	143	6.1

07049690 BEAVER LAKE NEAR EUREKA SPRINGS--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
MAY												
31..	0827	80513	80513	183	.40	--	735	9.8	115	8.2	151	21.3
31..	0831	81213	80513	183	6.10	5.20	735	9.9	116	8.2	152	21.4
31..	0832	80513	80513	183	10.1	--	735	9.8	115	8.2	151	21.4
31..	0833	80513	80513	183	20.0	--	735	9.8	115	8.2	151	21.4
31..	0835	80513	80513	183	30.1	--	735	9.8	115	8.2	152	21.3
31..	0837	80513	80513	183	31.2	--	735	9.8	115	8.2	151	21.2
31..	0838	80513	80513	183	32.0	--	735	9.6	112	8.2	151	20.9
31..	0839	80513	80513	183	33.0	--	735	10.7	115	8.0	150	17.2
31..	0840	80513	80513	183	33.9	--	735	10.9	113	7.9	152	15.3
31..	0841	80513	80513	183	35.0	--	735	10.9	110	7.8	150	14.4
31..	0842	80513	80513	183	37.0	--	735	10.8	108	7.8	149	13.7
31..	0843	80513	80513	183	40.0	--	735	10.7	105	7.8	148	12.8
31..	0844	80513	80513	183	43.0	--	735	10.9	105	7.7	148	11.8
31..	0845	80513	80513	183	45.8	--	735	11.0	104	7.7	147	11.0
31..	0846	80513	80513	183	50.2	--	735	11.1	102	7.7	147	10.1
31..	0847	80513	80513	183	60.0	--	735	11.0	98	7.6	146	9.1
31..	0849	80513	80513	183	60.0	--	735	11.1	99	7.6	146	8.9
31..	0850	80513	80513	183	70.3	--	735	10.8	95	7.5	145	8.2
31..	0851	80513	80513	183	80.0	--	735	10.4	90	7.4	144	7.5
31..	0852	80513	80513	183	90.0	--	735	10.2	88	7.4	144	7.2
31..	0853	80513	80513	183	100	--	735	10.1	86	7.3	144	7.0
31..	0854	80513	80513	183	110	--	735	10.1	86	7.3	143	6.9
31..	0855	80513	80513	183	120	--	735	10.0	85	7.2	144	6.7
31..	0856	80513	80513	183	130	--	735	9.9	84	7.2	144	6.6
31..	0857	80513	80513	183	140	--	735	9.8	83	7.2	143	6.6
31..	0858	80513	80513	183	150	--	735	9.9	83	7.2	143	6.5
31..	0859	80513	80513	183	160	--	735	9.8	83	7.1	143	6.5
31..	0900	80513	80513	183	170	--	735	9.6	81	7.1	144	6.5
31..	0901	80513	80513	183	180	--	735	9.5	80	7.0	144	6.4
31..	0904	80513	80513	183	177	--	735	9.5	80	7.0	144	6.4
31..	0905	80513	80513	183	182	--	735	9.4	79	7.0	144	6.5
JUN												
13..	0954	80513	80513	184	.10	--	733	7.8	103	8.1	153	27.1
13..	0955	81213	80513	184	6.30	9.10	733	7.9	103	8.1	153	27.1
13..	0956	80513	80513	184	10.3	--	733	7.8	102	8.1	154	27.0
13..	0957	80513	80513	184	16.1	--	733	8.3	107	8.2	152	26.2
13..	0958	80513	80513	184	17.0	--	733	8.7	110	8.3	151	25.1
13..	0959	80513	80513	184	17.6	--	733	8.7	110	8.3	152	24.9
13..	1000	80513	80513	184	19.1	--	733	9.1	112	8.3	150	24.0
13..	1001	80513	80513	184	20.1	--	733	9.1	112	8.4	152	23.7
13..	1002	80513	80513	184	22.2	--	733	9.1	111	8.3	151	23.1
13..	1003	80513	80513	184	24.9	--	733	8.8	106	8.3	150	22.5
13..	1004	81213	80513	184	30.0	--	733	9.4	110	8.3	149	21.1
13..	1005	80513	80513	184	32.2	--	733	9.6	110	8.2	149	19.8
13..	1006	80513	80513	184	33.2	--	733	10	111	8.2	148	18.8
13..	1007	80513	80513	184	31.4	--	733	10.2	115	8.1	153	19.2
13..	1008	80513	80513	184	35.9	--	733	10.1	107	8.0	147	16.1
13..	1009	80513	80513	184	36.1	--	733	9.9	103	7.9	147	15.5
13..	1010	80513	80513	184	38.3	--	733	9.8	99	7.8	148	14.2
13..	1011	80513	80513	184	39.9	--	733	9.6	96	7.7	147	13.4
13..	1012	80513	80513	184	42.9	--	733	9.6	94	7.7	146	12.6
13..	1013	80513	80513	184	45.8	--	733	9.7	92	7.6	147	11.5
13..	1014	80513	80513	184	49.6	--	733	9.8	91	7.5	145	10.7
13..	1015	80513	80513	184	56.2	--	733	9.7	88	7.5	144	9.5
13..	1016	80513	80513	184	60.1	--	733	9.6	86	7.4	144	9.0
13..	1018	80513	80513	184	69.5	--	733	9.2	81	7.3	143	8.1
13..	1019	80513	80513	184	79.3	--	733	9.1	79	7.2	143	7.7
13..	1020	80513	80513	184	90.4	--	733	8.9	77	7.2	142	7.4
13..	1021	81213	80513	184	101	--	733	8.7	75	7.1	142	7.1
13..	1022	80513	80513	184	110	--	733	8.6	74	7.1	142	6.9
13..	1023	80513	80513	184	121	--	733	8.5	72	7.0	142	6.8
13..	1024	80513	80513	184	130	--	733	8.4	72	7.0	142	6.7
13..	1025	80513	80513	184	140	--	733	8.3	71	7.0	142	6.6
13..	1026	80513	80513	184	150	--	733	8.3	70	7.0	142	6.6
13..	1027	80513	80513	184	160	--	733	8.3	70	6.9	142	6.6
13..	1028	80513	80513	184	170	--	733	8.1	69	6.9	142	6.5
13..	1029	80513	80513	184	181	--	733	8.0	67	6.9	142	6.5
13..	1031	81213	80513	184	178	--	733	8.0	67	6.8	143	6.5
13..	1032	80513	80513	184	184	--	733	7.5	63	6.8	143	6.5
JUL												
11..	0716	80513	80513	186	.60	--	745	9.7	130	7.9	153	29.7
11..	0717	80020	80513	186	6.20	8.50	745	9.7	131	7.9	153	29.7
11..	0718	80513	80513	186	10.0	--	745	9.7	131	7.9	153	29.8
11..	0719	80513	80513	186	15.1	--	745	10.2	135	8.0	152	28.8
11..	0720	80513	80513	186	17.1	--	745	10.3	136	8.0	153	28.4
11..	0721	80513	80513	186	20.0	--	745	10.4	137	8.1	152	28.1
11..	0722	80513	80513	186	24.0	--	745	11.4	146	8.2	148	26.6
11..	0723	80513	80513	186	25.0	--	745	12.8	155	8.3	151	24.1
11..	0724	80513	80513	186	26.0	--	745	12.9	155	8.3	150	23.3
11..	0725	80513	80513	186	27.0	--	745	13.0	154	8.3	150	22.7
11..	0726	81213	80513	186	30.0	--	745	12.8	148	8.2	148	21.4
11..	0727	80513	80513	186	32.0	--	745	13.0	145	8.2	149	19.6
11..	0728	80513	80513	186	34.1	--	745	12.5	136	8.0	148	18.3
11..	0729	80513	80513	186	36.1	--	745	12.5	132	7.9	148	16.6
11..	0730	80513	80513	186	38.1	--	745	12.0	123	7.9	146	15.4
11..	0731	80513	80513	186	40.1	--	745	12.0	120	7.8	146	14.5
11..	0732	80513	80513	186	42.1	--	745	11.6	116	7.7	145	14.2
11..	0733	80513	80513	186	45.1	--	745	11.8	114	7.7	145	12.8
11..	0734	80513	80513	186	48.0	--	745	11.6	111	7.6	143	12.5
11..	0735	80513	80513	186	50.1	--	745	11.7	111	7.5	144	11.8
11..	0736	80513	80513	186	55.3	--	745	11.6	107	7.5	143	10.6
11..	0737	80513	80513	186	60.1	--	745	11.7	106	7.4	143	9.8
11..	0738	80513	80513	186	70.0	--	745	11.1	98	7.4	142	8.8
11..	0739	80513	80513	186	80.2	--	745	10.7	93	7.3	143	8.1
11..	0740	80513	80513	186	90.2	--	745	10.5	90	7.2	142	7.6

07049690 BEAVER LAKE NEAR EUREKA SPRINGS--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JUL												
11..	0741	80513	80513	186	100	--	745	10.2	87	7.3	141	7.6
11..	0742	80513	80513	186	110	--	745	10.2	87	7.2	142	7.2
11..	0743	80513	80513	186	120	--	745	9.9	83	7.1	141	7.1
11..	0744	80513	80513	186	130	--	745	9.8	82	7.1	141	7.0
11..	0745	80513	80513	186	140	--	745	9.7	81	7.0	142	6.9
11..	0746	80513	80513	186	150	--	745	9.6	81	7.0	142	6.8
11..	0747	80513	80513	186	160	--	745	9.4	79	6.9	142	6.8
11..	0748	80513	80513	186	170	--	745	9.4	78	6.9	142	6.8
11..	0749	81213	80513	186	180	--	745	9.0	75	6.9	142	6.7
11..	0751	80513	80513	186	186	--	745	8.9	74	6.8	142	6.7
25..	0656	80513	80513	180	.30	--	737	7.1	98	7.8	160	30.4
25..	0657	80020	80513	180	6.10	7.10	737	7.2	99	7.8	159	30.5
25..	0658	80513	80513	180	10.1	--	737	7.2	99	7.8	160	30.5
25..	0700	80513	80513	180	18.0	--	737	7.8	106	7.9	159	29.6
25..	0701	80513	80513	180	19.9	--	737	7.8	106	7.9	158	29.3
25..	0702	80513	80513	180	22.0	--	737	7.9	106	8.0	158	28.6
25..	0705	80513	80513	180	24.4	--	737	8.2	107	8.0	157	27.4
25..	0706	80513	80513	180	25.1	--	737	8.6	111	8.0	157	26.8
25..	0707	80513	80513	180	26.1	--	737	9.5	120	8.1	156	25.7
25..	0708	80513	80513	180	27.1	--	737	10.1	126	8.1	156	24.7
25..	0709	80513	80513	180	28.1	--	737	10.3	127	8.2	155	23.9
25..	0710	80513	80513	180	28.9	--	737	10.3	125	8.2	155	23.0
25..	0711	81213	80513	180	30.0	--	737	10.2	120	8.1	154	22.1
25..	0712	80513	80513	180	31.2	--	737	10.2	118	8.1	154	21.0
25..	0713	80513	80513	180	32.2	--	737	10.1	116	8.0	154	20.4
25..	0714	80513	80513	180	33.0	--	737	10.0	113	7.9	153	19.7
25..	0715	80513	80513	180	34.0	--	737	10.1	113	7.9	154	19.2
25..	0716	80513	80513	180	36.1	--	737	9.7	107	7.8	153	18.1
25..	0717	80513	80513	180	38.0	--	737	9.5	102	7.6	152	16.9
25..	0718	80513	80513	180	40.2	--	737	9.4	98	7.5	153	15.9
25..	0719	80513	80513	180	41.9	--	737	9.2	95	7.5	152	15.0
25..	0720	80513	80513	180	45.2	--	737	9.1	91	7.4	152	13.9
25..	0721	80513	80513	180	48.0	--	737	8.9	87	7.3	151	12.9
25..	0722	80513	80513	180	50.0	--	737	8.8	86	7.3	150	12.4
25..	0723	80513	80513	180	54.0	--	737	8.6	82	7.2	150	11.5
25..	0724	80513	80513	180	58.0	--	737	8.2	76	7.1	149	10.7
25..	0725	80513	80513	180	60.0	--	737	8.4	78	7.1	150	10.3
25..	0726	80513	80513	180	64.9	--	737	8.2	74	7.0	149	9.6
25..	0727	80513	80513	180	70.1	--	737	7.8	71	7.0	149	9.4
25..	0728	80513	80513	180	75.2	--	737	7.7	68	6.9	149	8.7
25..	0730	80513	80513	180	80.0	--	737	7.4	65	6.8	149	8.4
25..	0731	80513	80513	180	90.1	--	737	7.2	63	7.0	149	8.0
25..	0732	80513	80513	180	100	--	737	7.2	62	6.8	148	7.8
25..	0733	80513	80513	180	110	--	737	7.1	61	6.7	148	7.4
25..	0734	80513	80513	180	120	--	737	6.9	59	6.7	148	7.2
25..	0735	80513	80513	180	130	--	737	6.8	58	6.7	148	7.0
25..	0736	80513	80513	180	140	--	737	6.6	56	6.6	148	6.9
25..	0737	80513	80513	180	150	--	737	6.5	55	6.6	148	6.8
25..	0738	80513	80513	180	160	--	737	6.4	54	6.5	148	6.8
25..	0739	80513	80513	180	170	--	737	6.2	53	6.5	148	6.8
25..	0742	81213	80513	180	174	--	737	6.2	53	6.5	148	6.8
25..	0743	80513	80513	180	180	--	737	6.2	52	6.5	149	6.8
AUG												
08..	0854	80513	80513	182	.50	--	741	9.0	123	7.8	146	30.1
08..	0855	80020	80513	182	6.00	7.20	741	9.0	123	7.8	145	30.2
08..	0856	80513	80513	182	10.0	--	741	9.0	123	7.8	145	30.1
08..	0857	80513	80513	182	20.0	--	741	9.9	135	8.0	145	29.9
08..	0858	80513	80513	182	22.1	--	741	11.5	154	8.1	144	28.9
08..	0859	80513	80513	182	22.9	--	741	11.8	157	8.2	144	28.5
08..	0900	80513	80513	182	24.1	--	741	12.2	160	8.2	142	27.9
08..	0901	80513	80513	182	26.0	--	741	12.5	161	8.2	142	26.8
08..	0902	80513	80513	182	28.0	--	741	12.6	159	8.2	143	25.6
08..	0903	81213	80513	182	30.0	--	741	13.0	160	8.2	141	24.2
08..	0904	80513	80513	182	31.9	--	741	12.8	153	8.2	141	22.9
08..	0905	80513	80513	182	33.0	--	741	12.8	149	8.1	141	21.6
08..	0906	80513	80513	182	34.9	--	741	12.3	141	8.0	140	20.5
08..	0907	80513	80513	182	36.0	--	741	12.2	137	8.0	139	19.5
08..	0908	80513	80513	182	37.0	--	741	12.1	134	7.9	140	18.7
08..	0909	80513	80513	182	40.1	--	741	11.6	125	7.8	139	17.3
08..	0910	80513	80513	182	42.0	--	741	11.4	120	7.7	139	16.5
08..	0911	80513	80513	182	45.0	--	741	11.2	115	--	139	15.2
08..	0912	80513	80513	182	48.0	--	741	10.7	106	--	137	13.7
08..	0913	80513	80513	182	50.0	--	741	10.7	104	--	137	13.0
08..	0914	80513	80513	182	54.9	--	741	10.3	98	--	137	11.8
08..	0915	80513	80513	182	60.0	--	741	9.5	88	--	135	10.8
08..	0916	80513	80513	182	65.0	--	741	9.2	84	--	135	10.2
08..	0917	80513	80513	182	70.1	--	741	8.9	80	--	135	9.5
08..	0918	80513	80513	182	74.9	--	741	8.6	77	--	136	9.0
08..	0919	80513	80513	182	80.0	--	741	8.6	76	--	136	8.6
08..	0920	80513	80513	182	90.0	--	741	8.4	74	--	135	8.2
08..	0921	80513	80513	182	100	--	741	8.2	71	--	135	8.0
08..	0922	80513	80513	182	110	--	741	8.1	70	--	135	7.6
08..	0923	80513	80513	182	120	--	741	8.0	68	--	135	7.4
08..	0924	80513	80513	182	130	--	741	7.8	67	--	135	7.3
08..	0925	80513	80513	182	140	--	741	7.6	65	--	135	7.1
08..	0926	80513	80513	182	150	--	741	7.3	62	--	136	7.0
08..	0927	80513	80513	182	160	--	741	7.0	59	--	136	7.0
08..	0928	80513	80513	182	170	--	741	6.8	57	--	136	7.0
08..	0930	81213	80513	182	176	--	741	6.8	57	--	136	6.9
14..	0842	80513	80513	175	.000	7.30	743	10.6	142	7.8	150	28.8
14..	0843	80513	80513	175	10.1	--	743	10.3	139	7.9	155	29.5
14..	0844	80513	80513	175	20.1	--	743	10.4	140	7.9	155	29.4
14..	0846	80513	80513	175	22.0	--	743	11.1	149	8.0	154	29.4
14..	0847	80513	80513	175	23.0	--	743	13.6	180	8.2	153	28.4
14..	0848	80513	80513	175	24.0	--	743	14.3	187	8.3	151	27.6
14..	0849	80513	80513	175	26.0	--	743	14.5	185	8.3	151	26.6
14..	0850	80513	80513	175	28.1	--	743	14.7	185	8.3	151	25.6

07049690 BEAVER LAKE NEAR EUREKA SPRINGS--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
AUG												
14..	0851	80513	80513	175	30.0	--	743	14.8	180	8.3	150	24.0
14..	0852	80513	80513	175	32.0	--	743	14.6	173	8.2	150	22.6
14..	0853	80513	80513	175	33.0	--	743	14.4	168	8.2	149	21.6
14..	0854	80513	80513	175	35.1	--	743	14.3	165	8.1	148	20.9
14..	0855	80513	80513	175	37.1	--	743	14.2	159	8.1	148	19.8
14..	0856	80513	80513	175	38.1	--	743	13.8	152	8.0	149	18.9
14..	0857	80513	80513	175	40.0	--	743	13.5	145	7.9	148	17.7
14..	0858	80513	80513	175	42.0	--	743	13.1	138	7.8	148	16.6
14..	0859	80513	80513	175	43.9	--	743	12.8	131	7.7	147	15.5
14..	0900	80513	80513	175	45.9	--	743	12.3	124	7.6	147	14.5
14..	0901	80513	80513	175	49.0	--	743	12.0	118	7.6	146	13.5
14..	0902	80513	80513	175	50.0	--	743	11.8	115	7.5	146	13.0
14..	0903	80513	80513	175	51.9	--	743	11.6	111	7.4	145	12.4
14..	0904	80513	80513	175	55.0	--	743	10.9	103	7.3	145	11.7
14..	0905	80513	80513	175	60.0	--	743	10.6	98	7.3	144	10.8
14..	0906	80513	80513	175	70.1	--	743	9.7	87	7.2	144	9.4
14..	0907	80513	80513	175	80.0	--	743	9.3	82	7.2	144	8.8
14..	0908	80513	80513	175	90.0	--	743	9.2	80	7.2	145	8.3
14..	0909	80513	80513	175	100	--	743	9.0	78	7.1	144	8.0
14..	0910	80513	80513	175	110	--	743	8.9	76	7.0	144	7.6
14..	0911	80513	80513	175	120	--	743	8.7	74	7.0	144	7.4
14..	0912	80513	80513	175	130	--	743	8.4	71	6.9	144	7.1
14..	0913	80513	80513	175	140	--	743	8.0	68	6.9	144	7.1
14..	0914	80513	80513	175	150	--	743	7.7	65	6.8	144	7.1
14..	0915	80513	80513	175	160	--	743	7.3	62	6.8	145	7.0
14..	0916	80513	80513	175	170	--	743	7.0	59	6.7	145	7.0
14..	0917	80513	80513	175	175	--	743	7.0	59	6.7	146	6.9
22..	0830	80513	80513	180	.30	--	744	7.5	100	8.4	154	28.9
22..	0831	81213	80513	180	6.00	7.30	744	7.5	100	8.4	154	28.9
22..	0832	80513	80513	180	10.0	--	744	7.5	100	8.4	154	28.9
22..	0833	80513	80513	180	20.0	--	744	7.5	99	8.4	154	28.9
22..	0835	80513	80513	180	27.0	--	744	7.4	99	8.4	154	28.9
22..	0836	81213	80513	180	30.0	--	744	7.5	100	8.5	153	28.8
22..	0838	80513	80513	180	32.0	--	744	8.0	107	8.5	153	28.7
22..	0839	80513	80513	180	33.0	--	744	9.6	124	8.6	153	27.3
22..	0840	80513	80513	180	34.0	--	744	10.4	128	8.6	150	24.6
22..	0841	80513	80513	180	35.0	--	744	10.5	127	8.6	180	23.3
22..	0842	80513	80513	180	36.0	--	744	10.4	123	8.5	203	22.4
22..	0843	80513	80513	180	37.0	--	744	10.5	123	8.5	219	21.8
22..	0844	80513	80513	180	38.0	--	744	10.5	121	8.5	237	21.0
22..	0845	80513	80513	180	39.0	--	744	10.4	118	8.4	251	20.5
22..	0846	80513	80513	180	40.0	--	744	10.2	115	8.4	265	19.9
22..	0847	80513	80513	180	41.0	--	744	10.0	111	8.2	289	19.1
22..	0848	80513	80513	180	42.0	--	744	9.8	107	8.2	312	18.4
22..	0849	80513	80513	180	43.0	--	744	9.7	104	8.1	335	17.5
22..	0850	80513	80513	180	44.0	--	744	9.6	101	8.0	360	16.7
22..	0851	80513	80513	180	45.0	--	744	9.4	98	8.0	374	16.1
22..	0852	80513	80513	180	47.0	--	744	9.2	94	7.9	415	14.9
22..	0853	80513	80513	180	49.0	--	744	8.9	89	7.8	445	14.0
22..	0854	80513	80513	180	50.0	--	744	8.8	87	7.8	462	13.5
22..	0855	80513	80513	180	53.0	--	744	8.6	82	7.7	365	12.2
22..	0856	80513	80513	180	56.0	--	744	8.3	78	7.5	235	11.5
22..	0857	80513	80513	180	60.0	--	744	8.0	74	7.4	146	10.8
22..	0858	80513	80513	180	65.0	--	744	7.6	69	7.4	146	10.1
22..	0859	80513	80513	180	70.0	--	744	7.4	67	7.3	146	9.4
22..	0900	80513	80513	180	80.0	--	744	7.1	62	7.3	145	8.5
22..	0901	80513	80513	180	90.0	--	744	6.9	60	7.2	145	7.9
22..	0902	80513	80513	180	100	--	744	6.8	58	7.2	145	7.6
22..	0903	80513	80513	180	110	--	744	6.7	57	7.2	145	7.4
22..	0904	80513	80513	180	120	--	744	6.5	55	7.2	145	7.2
22..	0905	80513	80513	180	130	--	744	6.3	53	7.1	144	7.1
22..	0906	80513	80513	180	140	--	744	6.1	52	7.1	145	6.9
22..	0907	80513	80513	180	150	--	744	6.0	50	7.1	145	6.9
22..	0908	80513	80513	180	160	--	744	5.8	48	7.1	145	6.8
22..	0910	80513	80513	180	170	--	744	5.3	45	7.0	145	6.8
22..	0911	81213	80513	180	174	--	744	5.3	44	7.0	145	6.8
22..	0912	80513	80513	180	180	--	744	5.2	43	7.0	146	6.8
SEP												
06..	0834	80513	80513	175	.10	--	740	8.3	109	8.0	152	27.9
06..	0835	81213	80513	175	6.00	6.70	740	8.2	108	8.0	152	28.0
06..	0836	80513	80513	175	10.0	--	740	8.2	108	8.0	152	28.0
06..	0838	80513	80513	175	12.0	--	740	8.2	108	8.0	153	28.0
06..	0839	80513	80513	175	20.0	--	740	8.2	108	8.0	152	28.0
06..	0841	81213	80513	175	30.0	--	740	8.3	109	8.0	152	27.6
06..	0842	80513	80513	175	31.0	--	740	8.4	110	8.0	151	27.3
06..	0843	80513	80513	175	32.0	--	740	10.1	127	8.0	148	25.1
06..	0844	80513	80513	175	33.0	--	740	10.3	126	7.9	151	24.0
06..	0845	80513	80513	175	34.0	--	740	10.6	128	7.9	150	22.9
06..	0847	80513	80513	175	36.0	--	740	10.9	128	8.0	148	21.7
06..	0849	80513	80513	175	37.0	--	740	10.7	124	7.8	148	21.0
06..	0850	80513	80513	175	38.0	--	740	10.4	120	7.8	148	20.6
06..	0851	80513	80513	175	39.0	--	740	10.1	114	7.7	148	19.8
06..	0853	80513	80513	175	40.0	--	740	9.7	108	--	147	19.0
06..	0854	80513	80513	175	42.0	--	740	9.7	105	--	147	17.6
06..	0855	80513	80513	175	44.0	--	740	9.5	100	--	147	16.5
06..	0856	80513	80513	175	46.0	--	740	9.3	96	--	146	15.4
06..	0857	80513	80513	175	50.0	--	740	8.9	88	--	146	13.7
06..	0858	80513	80513	175	55.0	--	740	8.2	79	--	144	12.0
06..	0859	80513	80513	175	60.0	--	740	7.6	70	--	144	10.9
06..	0900	80513	80513	175	65.0	--	740	7.3	67	--	143	10.2
06..	0901	80513	80513	175	70.0	--	740	6.9	63	--	143	9.7
06..	0902	80513	80513	175	80.0	--	740	6.6	58	--	144	8.9
06..	0903	80513	80513	175	90.0	--	740	6.5	57	--	143	8.3
06..	0904	80513	80513	175	100	--	740	6.5	56	--	144	8.0
06..	0905	80513	80513	175	110	--	740	6.3	54	--	143	7.8
06..	0906	80513	80513	175	120	--	740	6.0	52	--	143	7.4

07049690 BEAVER LAKE NEAR EUREKA SPRINGS--CONTINUED

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
SEP												
06..	0907	80513	80513	175	130	--	740	5.7	49	--	143	7.3
06..	0908	80513	80513	175	140	--	740	5.5	46	--	144	7.1
06..	0909	80513	80513	175	150	--	740	5.2	44	--	144	7.1
06..	0910	80513	80513	175	160	--	740	5.0	42	--	144	7.0
06..	0911	80513	80513	175	170	--	740	4.7	40	--	144	7.0
06..	0912	81213	80513	175	169	--	740	4.7	40	--	144	7.0
06..	0913	80513	80513	175	175	--	740	4.6	39	--	144	7.0
11..	1258	80513	80513	174	.50	5.80	758	7.9	99	6.9	153	26.3
11..	1259	80513	80513	174	9.90	--	758	8.0	99	6.9	153	26.0
11..	1300	80513	80513	174	20.0	--	758	7.9	98	6.9	153	26.0
11..	1301	80513	80513	174	30.0	--	758	7.9	98	6.9	154	25.9
11..	1302	80513	80513	174	34.2	--	758	8.2	100	6.8	153	25.3
11..	1303	80513	80513	174	35.0	--	758	9.5	110	6.6	151	22.7
11..	1304	80513	80513	174	35.8	--	758	9.4	107	6.5	151	21.5
11..	1305	80513	80513	174	36.9	--	758	9.5	107	6.5	150	20.8
11..	1306	80513	80513	174	37.9	--	758	9.5	104	6.5	151	19.7
11..	1307	80513	80513	174	39.8	--	758	9.1	97	6.4	150	18.6
11..	1308	80513	80513	174	41.9	--	758	9.2	97	6.4	148	17.9
11..	1309	80513	80513	174	43.9	--	758	9.0	93	6.3	147	16.6
11..	1310	80513	80513	174	45.9	--	758	8.8	88	6.3	148	15.1
11..	1311	80513	80513	174	48.1	--	758	8.3	81	6.2	148	14.0
11..	1312	80513	80513	174	50.2	--	758	8.1	78	6.2	147	13.3
11..	1313	80513	80513	174	55.0	--	758	8.0	75	6.2	146	12.2
11..	1314	80513	80513	174	59.8	--	758	7.4	68	6.1	146	11.2
11..	1315	80513	80513	174	65.1	--	758	7.0	63	6.0	145	10.4
11..	1316	80513	80513	174	70.0	--	758	6.7	59	6.0	145	9.9
11..	1317	80513	80513	174	80.4	--	758	6.3	55	5.9	145	8.9
11..	1318	80513	80513	174	89.9	--	758	6.3	54	5.9	146	8.3
11..	1319	80513	80513	174	100	--	758	6.1	52	5.8	145	8.0
11..	1320	80513	80513	174	110	--	758	6.1	51	5.8	145	7.7
11..	1321	80513	80513	174	120	--	758	5.9	50	5.7	145	7.4
11..	1322	80513	80513	174	130	--	758	5.6	47	5.6	145	7.3
11..	1323	80513	80513	174	140	--	758	5.3	44	5.6	145	7.3
11..	1324	80513	80513	174	150	--	758	5.1	42	5.5	146	7.1
11..	1325	80513	80513	174	160	--	758	4.8	40	5.5	146	7.1
11..	1326	80513	80513	174	170	--	758	4.2	34	5.4	146	7.1
11..	1327	80513	80513	174	174	--	758	4.0	34	5.4	146	7.1
19..	0838	81213	80513	176	6.00	5.30	740	7.4	92	8.5	136	25.0
19..	0839	80513	80513	176	10.0	--	740	7.4	93	8.5	136	25.0
19..	0841	80513	80513	176	20.0	--	740	7.5	94	8.4	136	25.0
19..	0843	81213	80513	176	30.0	--	740	7.5	94	8.4	136	25.0
19..	0844	80513	80513	176	37.0	--	740	7.5	94	8.4	136	24.8
19..	0846	80513	80513	176	38.0	--	740	7.8	96	--	136	23.7
19..	0848	80513	80513	176	39.0	--	740	8.5	97	--	135	20.1
19..	0849	80513	80513	176	40.0	--	740	8.6	94	--	135	18.3
19..	0850	80513	80513	176	43.0	--	740	8.5	91	--	134	17.1
19..	0851	80513	80513	176	45.0	--	740	8.4	86	--	134	15.1
19..	0852	80513	80513	176	47.0	--	740	8.3	84	--	134	14.9
19..	0853	80513	80513	176	50.0	--	740	8.1	80	--	133	13.3
19..	0854	80513	80513	176	53.0	--	740	7.6	73	--	132	12.2
19..	0855	80513	80513	176	58.0	--	740	7.2	67	--	132	11.1
19..	0856	80513	80513	176	60.0	--	740	6.8	63	--	132	10.7
19..	0858	80513	80513	176	65.0	--	740	6.4	58	--	132	9.7
19..	0859	80513	80513	176	70.0	--	740	6.2	55	--	132	9.1
19..	0900	80513	80513	176	80.0	--	740	5.9	52	--	132	8.2
19..	0901	80513	80513	176	90.0	--	740	5.9	51	--	132	7.7
19..	0902	80513	80513	176	100	--	740	5.8	50	--	132	7.7
19..	0903	80513	80513	176	110	--	740	5.6	48	--	132	7.1
19..	0904	80513	80513	176	120	--	740	5.5	46	--	132	6.9
19..	0905	80513	80513	176	130	--	740	5.2	44	--	132	6.8
19..	0906	80513	80513	176	140	--	740	5.0	42	--	132	6.7
19..	0907	80513	80513	176	150	--	740	4.7	40	--	132	6.6
19..	0908	80513	80513	176	160	--	740	4.2	35	--	132	6.6
19..	0909	80513	80513	176	170	--	740	3.9	33	--	133	6.6
19..	0910	81213	80513	176	170	--	740	3.9	33	--	133	6.6
19..	0911	80513	80513	176	176	--	740	3.7	31	--	133	6.6

07049690 BEAVER LAKE NEAR EUREKA SPRINGS--CONTINUED

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING DEPTH (FEET) (00003)	TUR-BID-ITY (NTU) (00076)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
APR											
18...	0909	--	6.00	.4	67	23.0	2.20	3.6	<.1	7.6	91
18...	0915	--	30.0	.3	67	23.0	2.20	3.6	<.1	7.5	88
18...	0938	--	176	.9	67	23.0	2.20	3.6	<.1	7.6	85
MAY											
31...	0831	--	6.10	.6	67	23.0	2.20	3.8	<.1	8.0	81
31...	0835	--	30.1	.7	67	23.0	2.20	3.9	<.1	7.7	81
31...	0904	--	177	.8	67	23.0	2.20	3.7	<.1	7.6	87
JUN											
13...	0955	--	6.30	.2	69	24.0	2.20	3.8	<.1	8.0	84
13...	1004	--	30.0	.4	69	24.0	2.20	3.7	<.1	7.9	85
13...	1031	--	178	.5	67	23.0	2.20	3.7	<.1	7.4	87
JUL											
25...	0742	--	174	.7	69	24.0	2.20	3.7	<.1	7.8	101
AUG											
08...	0855	--	6.00	.2	69	24.0	2.30	3.8	<.1	8.0	83
08...	0903	--	30.0	.2	69	24.0	2.20	3.6	<.1	7.8	84
08...	0930	--	176	.7	69	24.0	2.20	3.7	<.1	7.7	88
22...	0831	--	6.00	.1	67	23.0	2.30	4.0	<.1	8.1	85
22...	0836	--	30.0	.1	69	24.0	2.30	3.9	<.1	8.0	86
22...	0911	--	174	1.0	69	24.0	2.20	3.8	<.1	7.9	90
SEP											
06...	0841	--	30.0	.3	67	23.0	2.30	3.8	<.1	8.1	89
06...	0912	--	169	1.0	69	24.0	2.20	3.8	<.1	7.9	91
19...	0838	--	6.00	.3	69	24.0	2.30	3.8	<.1	8.0	87
19...	0843	--	30.0	.3	69	24.0	2.30	3.8	<.1	8.1	87
19...	0910	--	170	1.1	69	24.0	2.30	3.8	<.1	8.0	89

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS NA) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
APR									
18...	<.010	.22	--	.160	<.010	--	.38	--	<.020
18...	<.010	<.20	--	.170	<.010	--	--	--	<.020
18...	<.010	<.20	--	.170	<.010	--	--	--	<.020
MAY									
31...	<.010	.26	--	.150	<.010	--	.41	--	<.020
31...	<.010	.26	--	.140	<.010	--	.40	--	<.020
31...	<.010	<.20	.01	.190	<.010	--	--	--	<.020
JUN									
13...	.014	.25	.02	.180	<.010	.24	.43	.061	<.020
13...	<.010	<.20	--	.140	<.010	--	--	.031	<.020
13...	<.010	<.20	--	.200	<.010	--	--	--	<.020
JUL									
11...	<.010	<.20	--	.150	<.010	--	--	--	<.020
11...	<.010	.21	.02	.150	<.010	.20	.36	--	<.020
11...	<.010	<.20	.02	.230	<.010	--	--	--	<.020
25...	<.010	<.20	--	.150	<.010	--	--	--	<.020
25...	<.010	<.20	.01	.150	<.010	--	--	--	<.020
25...	<.010	<.20	.01	.250	<.010	--	<.020	--	<.010
AUG									
08...	<.010	<.20	--	.130	<.010	--	--	--	<.020
08...	<.010	.20	--	.130	<.010	--	.33	--	<.020
08...	<.010	<.20	--	.290	<.010	--	--	--	<.020
22...	<.010	<.20	--	.120	<.010	--	--	--	<.020
22...	<.010	<.20	--	.120	<.010	--	--	--	<.020
22...	<.010	<.20	.01	.300	<.010	--	--	--	<.020
SEP									
06...	.020	<.20	.03	.110	<.010	--	--	--	<.020
06...	<.010	<.20	--	.310	<.010	--	--	--	<.020
19...	<.010	<.20	--	.100	<.010	--	--	--	<.020
19...	<.010	<.20	--	.100	<.010	--	--	--	<.020
19...	<.010	<.20	--	.100	<.010	--	--	--	<.020

07049690 BEAVER LAKE NEAR EUREKA SPRINGS--CONTINUED

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, ORGANIC CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
APR									
18...	<.010	<.020	2.3	--	2.7	<1	<.1	M	5
18...	<.010	<.020	2.6	--	2.9	--	--	M	5
18...	<.010	<.020	2.3	--	2.4	--	--	20	42
MAY									
31...	<.010	<.020	2.7	.8	2.3	<1	2.6	M	4
31...	<.010	<.020	2.6	--	2.2	--	--	M	4
31...	<.010	<.020	1.9	--	1.9	--	--	10	47
JUN									
13...	<.020	<.020	2.9	.3	3.5	<1	<.1	M	2
13...	.010	<.020	3.2	--	3.3	--	--	M	3
13...	<.010	<.020	2.2	--	2.8	--	--	10	91
JUL									
11...	<.010	<.020	2.6	.5	2.4	<1	<.1	M	3
11...	<.010	<.020	2.4	--	2.0	--	--	M	4
11...	<.010	<.020	3.4	--	3.9	--	--	10	120
25...	<.010	<.020	1.8	--	1.4	E1	<.1	M	4
25...	<.010	<.020	1.7	--	1.3	--	--	M	4
25...	<.010	<.020	1.5	--	1.2	--	--	20	122
AUG									
08...	<.010	<.020	2.2	--	2.0	E10	<.1	M	5
08...	<.010	<.020	2.5	--	2.1	--	--	M	3
08...	<.010	<.020	2.1	--	2.0	--	--	20	190
22...	<.010	<.020	2.6	--	2.5	E1	<.1	M	6
22...	<.010	<.020	2.9	--	2.7	--	--	M	6
22...	<.010	<.020	2.6	--	2.5	--	--	20	189
SEP									
06...	<.010	--	--	--	--	E1	--	--	--
06...	<.010	<.020	2.6	--	2.5	--	--	M	5
06...	<.010	<.020	2.5	--	2.3	--	--	20	171
19...	<.010	<.020	3.4	.4	3.3	S2	1.8	M	6
19...	<.010	<.020	3.0	--	2.8	--	--	M	5
19...	<.010	<.020	2.9	2.8	--	--	--	20	113

Remark codes used in this report:
< -- Less than
E -- Estimated value
S -- Most probable value
Null value remark codes used in this report:
M -- Presence verified, not quantified

07049691 WHITE RIVER AT BEAVER DAM NEAR EUREKA SPRINGS

LOCATION.--Lat 36°25'15", long 93°50'50", in NW1/4NW1/4 sec.10, T.20 N., R.27 W., Carroll County, Hydrologic Unit 11010001, at Beaver Dam, 6.0 mi west of Eureka Springs, and at mile 609.0.

DRAINAGE AREA.--1,192 mi².

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1999 to current year.

DISSOLVED OXYGEN: June 1999 to current year.

REMARKS.--Dissolved oxygen and water temperature collected continuously June through December.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DEPTH BOTTOM AT SAMPLE LOCATION, (FEET) (81903)	SAMPLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)
OCT												
10..	1220	80513	--	--	--	755	9.4	96	7.1	159	15.9	--
NOV												
07..	1300	80513	3.50	2.00	200	754	6.6	60	7.0	154	10.9	10.0
07..	1301	80513	4.20	2.00	200	754	6.5	59	7.0	154	10.9	30.0
07..	1302	80513	4.00	2.00	200	754	6.0	55	7.0	153	11.0	50.0
07..	1303	80513	5.00	3.00	200	754	5.5	51	7.0	153	11.0	70.0
07..	1304	80513	5.00	3.00	200	754	5.4	49	7.0	153	11.0	90.0
07..	1305	80513	4.00	2.00	200	754	5.4	49	7.0	153	11.0	110
07..	1306	80513	4.00	2.00	200	754	5.5	51	7.0	153	11.0	130
07..	1307	80513	4.00	2.00	200	754	5.9	54	7.0	153	11.0	150
07..	1308	80513	4.00	2.00	200	754	6.3	58	7.0	153	11.0	170
07..	1309	80513	3.50	1.00	200	754	6.9	63	7.1	153	10.9	190
07..	1311	80513	--	.000	--	754	7.8	71	7.3	154	10.8	--
MAR												
27..	1151	80513	--	--	--	755	11.3	103	7.2	160	11.0	--
AUG												
14..	0945	80513	--	--	--	747	12.3	115	7.4	149	11.5	--
SEP												
11..	1353	80513	--	--	--	758	9.9	101	7.0	154	16.1	--

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.6	10.8	11.7	13.2	11.4	12.2	11.2	9.6	10.2	---	---	---
2	12.7	10.3	11.5	13.7	11.2	12.2	10.1	9.6	9.8	---	---	---
3	12.2	10.4	11.5	12.9	10.7	11.6	11.4	9.1	9.8	---	---	---
4	13.0	10.8	11.7	11.9	11.3	11.5	11.5	9.1	10.6	---	---	---
5	12.4	11.0	11.8	12.1	11.3	11.6	11.9	9.4	10.8	---	---	---
6	13.1	10.2	11.3	12.7	10.7	11.8	11.5	9.9	11.0	---	---	---
7	13.5	9.8	11.1	11.0	9.9	10.3	11.7	9.5	11.0	---	---	---
8	13.1	9.1	11.0	9.9	9.7	9.8	11.9	9.8	10.9	---	---	---
9	12.4	9.2	11.1	9.8	9.2	9.5	11.3	9.6	10.4	---	---	---
10	12.4	9.4	11.1	12.4	9.2	11.2	11.5	10.5	11.1	---	---	---
11	15.0	9.6	11.3	11.9	9.6	10.4	11.2	9.8	10.6	---	---	---
12	13.2	9.9	11.3	10.4	9.6	10.0	10.9	9.3	10.4	---	---	---
13	12.7	10.6	11.6	12.1	9.1	10.4	10.8	9.1	10.0	---	---	---
14	12.6	11.0	11.8	11.8	9.1	10.1	10.6	9.8	10.2	---	---	---
15	13.4	11.1	11.9	12.3	9.0	10.1	10.7	9.6	10.2	---	---	---
16	12.6	11.0	11.7	12.7	9.5	11.0	10.1	8.3	9.5	---	---	---
17	12.6	10.8	12.0	12.3	9.1	10.6	9.3	8.1	8.6	---	---	---
18	13.1	10.4	11.4	11.8	9.5	10.2	9.5	8.1	8.8	---	---	---
19	13.4	10.3	11.7	12.0	9.4	10.1	9.8	7.6	9.2	---	---	---
20	12.6	10.3	11.5	12.0	9.4	10.4	10.1	8.3	9.4	---	---	---
21	12.8	10.6	11.4	12.1	9.1	10.9	9.6	8.4	9.1	---	---	---
22	12.7	11.2	11.8	11.7	9.9	10.6	9.9	7.7	8.8	---	---	---
23	12.6	11.2	12.0	11.0	10.2	10.7	9.2	7.8	8.3	---	---	---
24	12.8	11.2	11.9	10.6	10.1	10.4	8.7	7.5	7.9	---	---	---
25	12.8	11.4	12.2	11.6	9.8	10.4	8.1	7.5	7.8	---	---	---
26	12.6	10.9	11.6	11.4	9.5	10.3	8.1	7.1	7.8	---	---	---
27	12.7	11.1	11.7	12.2	9.5	10.2	8.1	7.7	7.9	---	---	---
28	13.6	11.0	11.6	12.1	9.4	10.3	8.5	7.6	8.0	---	---	---
29	12.1	10.9	11.3	11.5	9.2	9.9	8.4	6.7	7.5	---	---	---
30	12.3	11.2	11.5	12.1	9.2	10.2	7.5	6.4	6.9	---	---	---
31	12.8	11.1	11.9	---	---	---	7.6	6.4	6.9	---	---	---
MONTH	15.0	9.1	11.6	13.7	9.0	10.6	11.9	6.4	9.3	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	9.0	6.8	7.5	8.4	7.1	7.3	9.5	7.3	7.8
2	11.1	6.8	7.9	9.2	6.8	7.7	9.1	7.2	7.5	9.3	7.2	7.8
3	7.7	6.6	7.1	8.9	6.8	7.5	8.8	7.1	7.4	9.5	7.2	7.9
4	9.3	6.6	7.3	8.2	6.8	7.2	9.1	7.1	7.6	9.3	7.3	7.8
5	8.1	6.9	7.4	7.8	6.8	7.1	9.5	7.1	7.8	8.9	7.3	7.8
6	9.4	6.5	7.4	7.6	6.8	6.9	9.1	7.0	7.4	8.8	7.4	7.8
7	8.7	6.5	6.8	7.8	6.8	7.0	8.2	7.1	7.3	9.6	7.5	7.9
8	8.9	6.5	7.0	9.2	6.8	7.3	8.0	7.2	7.4	9.0	7.5	7.9
9	9.6	6.8	7.5	9.1	6.8	7.2	8.7	7.2	7.5	9.5	7.3	8.1
10	9.4	6.6	7.7	7.2	6.8	6.9	9.0	7.3	7.6	9.7	7.1	7.8
11	9.0	6.6	7.3	9.1	6.9	7.3	9.2	7.2	7.8	9.4	7.1	7.9
12	8.3	6.6	6.8	9.0	6.9	7.4	9.1	7.2	7.7	9.4	7.0	7.7
13	6.8	6.6	6.7	8.4	6.9	7.5	9.6	7.2	7.8	9.4	7.1	7.7
14	8.7	6.6	7.3	8.6	6.9	7.1	9.6	7.1	7.9	9.9	7.2	7.8
15	10.4	6.7	7.9	8.3	6.8	7.3	8.9	7.1	7.8	9.3	7.2	7.8
16	8.9	6.8	7.5	7.7	6.9	7.1	9.6	7.4	8.2	8.3	7.3	7.7
17	9.5	6.9	7.7	8.3	6.9	7.2	9.3	7.1	7.9	8.6	7.3	7.7
18	8.5	6.6	7.1	8.4	6.9	7.2	10.0	7.3	7.8	8.2	7.4	7.6
19	9.5	6.7	7.5	7.2	7.0	7.1	9.2	7.2	7.5	9.5	7.5	8.2
20	10.1	6.7	7.7	7.3	7.0	7.1	9.1	7.1	7.7	9.2	7.2	7.9
21	11.7	6.8	8.0	7.3	7.1	7.2	9.1	7.2	7.6	8.6	7.3	7.6
22	7.1	6.7	6.8	7.3	7.1	7.2	9.2	7.2	7.6	9.6	7.4	7.9
23	9.9	6.7	7.6	7.3	7.0	7.2	8.4	7.3	7.6	10.7	7.2	8.0
24	8.6	6.8	7.4	9.0	7.1	7.4	9.1	7.2	7.7	9.5	7.3	8.0
25	10.1	6.8	7.7	8.6	7.1	7.4	8.9	7.2	7.7	9.6	6.5	7.6
26	9.7	6.7	7.4	8.5	7.1	7.5	9.1	7.3	8.0	9.4	6.4	7.5
27	9.5	6.8	7.6	8.5	7.1	7.3	9.3	7.2	7.5	9.8	6.7	7.7
28	8.5	6.7	7.3	9.0	7.1	7.7	9.1	7.3	7.7	9.4	6.8	7.8
29	9.2	6.8	7.6	9.0	7.2	7.7	9.6	7.3	7.7	9.3	6.6	7.7
30	8.5	6.8	7.4	9.2	7.1	7.6	9.3	7.3	7.9	9.5	6.6	7.7
31	---	---	---	9.0	7.1	7.5	9.1	7.5	7.8	---	---	---
MONTH	---	---	---	9.2	6.8	7.3	10.0	7.0	7.7	10.7	6.4	7.8

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.4	5.7	7.1	8.3	5.6	6.9	8.5	6.0	6.9	---	---	---
2	8.4	4.4	6.4	9.6	5.4	6.9	8.1	6.1	6.8	---	---	---
3	8.1	4.2	6.1	9.1	5.7	7.5	10.3	6.3	7.5	---	---	---
4	9.6	5.4	6.7	9.0	5.6	6.9	10.6	5.8	8.1	---	---	---
5	9.6	5.0	6.3	8.5	5.3	6.3	9.6	6.3	8.0	---	---	---
6	9.6	5.4	7.0	8.1	5.3	6.7	9.0	6.1	8.1	---	---	---
7	10.8	5.5	7.3	8.7	5.8	6.9	9.8	6.9	8.4	---	---	---
8	10.0	5.6	7.7	8.1	5.8	6.6	10.5	6.5	8.5	---	---	---
9	10.1	6.4	7.6	8.7	5.8	6.7	8.1	5.7	6.9	---	---	---
10	8.9	5.5	7.2	9.2	5.1	7.1	8.7	5.9	7.4	---	---	---
11	9.4	5.9	7.4	9.5	5.7	7.2	11.1	5.5	7.9	---	---	---
12	9.1	5.2	6.9	7.8	5.7	6.5	11.3	7.5	9.6	---	---	---
13	8.2	5.6	6.8	8.9	6.0	7.4	10.6	8.4	9.6	---	---	---
14	8.0	4.8	6.6	9.1	6.0	7.4	10.6	8.1	9.3	---	---	---
15	8.8	4.1	6.4	9.5	6.0	7.2	9.4	6.9	8.1	---	---	---
16	9.2	5.1	6.9	10.6	6.1	7.7	10.5	7.7	8.9	---	---	---
17	8.9	5.1	6.8	10.2	5.9	7.7	11.5	9.5	10.7	---	---	---
18	9.6	5.7	7.4	9.8	6.3	7.5	11.1	8.6	10.0	---	---	---
19	9.6	5.6	7.5	8.9	6.1	7.1	11.8	9.4	10.9	---	---	---
20	8.8	5.8	7.2	9.9	6.1	7.7	11.8	9.2	10.7	---	---	---
21	8.2	5.0	6.6	9.8	6.0	7.6	11.7	10.0	11.1	---	---	---
22	8.2	4.2	6.0	9.9	5.9	7.3	12.1	9.9	11.4	---	---	---
23	8.8	5.3	7.2	7.8	5.5	6.5	12.4	11.2	11.6	---	---	---
24	9.2	4.9	6.6	7.5	5.4	6.3	12.2	11.3	11.7	---	---	---
25	9.0	4.8	7.3	8.7	5.8	7.0	12.3	11.4	11.8	---	---	---
26	8.3	5.4	7.1	8.5	5.9	7.1	12.5	11.6	11.9	---	---	---
27	8.2	4.0	6.7	9.3	5.9	6.8	12.7	11.6	12.0	---	---	---
28	9.2	4.9	6.4	8.1	5.9	6.6	13.1	11.8	12.3	---	---	---
29	8.2	5.0	6.0	8.9	5.9	7.0	12.9	10.8	12.3	---	---	---
30	8.4	5.0	6.2	9.6	6.1	7.3	13.2	12.2	12.6	---	---	---
31	8.4	4.9	6.6	---	---	---	13.2	12.2	12.6	---	---	---
MONTH	10.8	4.0	6.8	10.6	5.1	7.0	13.2	5.5	9.8	---	---	---

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

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	11.8	10.2	11.1	10.9	8.5	9.7	10.4	8.6	9.5
2	12.1	10.3	11.2	12.0	10.1	11.0	11.8	8.5	9.9	9.9	7.8	9.0
3	12.4	7.6	10.4	11.7	10.0	10.9	10.8	9.1	10.0	10.3	7.9	9.0
4	12.7	10.3	11.4	11.4	9.9	10.6	10.7	8.9	9.9	10.6	8.2	9.5
5	14.1	10.5	12.3	12.0	9.8	10.6	11.1	8.7	9.8	10.2	7.5	9.2
6	12.3	10.6	11.4	12.2	9.8	10.8	11.3	8.6	9.6	10.3	8.4	9.3
7	12.6	8.3	11.4	12.6	9.9	11.0	11.2	8.3	9.5	10.1	8.3	9.3
8	12.7	7.8	11.2	12.5	9.8	10.8	11.3	8.4	9.5	10.4	8.4	9.3
9	12.2	6.2	9.6	11.6	7.2	10.4	10.8	8.3	9.7	10.7	8.6	9.5
10	11.8	6.8	10.2	12.2	9.5	10.6	10.6	8.7	9.7	10.6	8.3	9.4
11	11.6	7.8	9.9	14.6	10.0	11.8	10.7	8.5	9.8	10.7	9.0	10.0
12	11.0	6.5	8.6	13.9	9.1	12.4	10.9	8.4	9.6	11.1	7.4	9.4
13	12.1	6.8	10.2	13.5	11.3	12.4	10.8	8.4	9.4	11.4	7.8	9.7
14	12.2	10.8	11.5	14.2	11.5	12.5	10.7	8.5	9.9	10.6	8.9	9.8
15	12.8	10.2	11.4	13.5	10.4	12.6	10.4	8.6	9.5	10.4	8.2	9.5
16	11.9	7.1	10.0	12.5	9.8	11.2	10.8	8.3	9.5	10.6	8.5	9.5
17	11.9	10.3	11.1	12.4	9.5	10.3	10.6	8.7	9.6	10.2	8.3	9.1
18	12.6	10.4	11.2	11.0	9.0	10.0	10.3	8.4	9.4	10.3	7.8	9.2
19	12.8	10.5	11.5	11.0	9.2	10.0	10.7	8.4	9.4	11.4	8.5	9.5
20	12.2	10.3	11.2	11.7	8.9	10.1	10.4	8.6	9.6	10.8	6.9	9.7
21	12.1	10.4	11.1	10.8	8.8	10.0	11.4	8.1	9.3	11.6	6.5	9.3
22	11.9	10.0	11.0	10.6	8.7	9.6	10.2	7.8	9.1	10.8	8.5	9.4
23	12.2	7.7	11.2	11.0	8.7	9.7	11.0	8.1	9.4	10.8	8.3	9.3
24	12.4	7.7	11.0	11.1	8.9	10.0	10.6	7.6	9.5	10.6	5.9	9.2
25	11.6	10.0	10.9	11.1	9.2	9.9	10.1	7.6	9.1	10.9	9.0	9.8
26	12.5	10.1	11.1	11.0	8.5	9.9	10.2	8.2	9.0	10.7	7.0	9.6
27	12.2	10.1	11.1	11.4	9.1	9.8	10.3	8.1	8.9	10.9	8.5	9.8
28	20.5	10.1	11.3	11.0	7.0	10.2	11.4	7.4	9.4	10.6	8.7	9.7
29	11.7	10.1	11.0	11.2	6.7	10.0	11.3	8.8	10.0	10.6	8.7	9.6
30	12.6	10.0	11.1	11.4	8.8	9.7	11.2	8.4	9.6	10.6	8.8	9.6
31	---	---	---	10.9	9.0	9.9	10.4	7.7	9.1	---	---	---
MONTH	---	---	---	14.6	6.7	10.6	11.8	7.4	9.5	11.6	5.9	9.5

07050500 KINGS RIVER NEAR BERRYVILLE

LOCATION.--Lat 36°25'36", long 93°37'15", in SE1/4NE1/4 sec.3, T.20 N., R.25 W., Carroll County, Hydrologic Unit 11010001, on right bank at downstream side of bridge on State Highway 143, 1.5 mi downstream from Bee Creek, 2.5 mi upstream from Clabber Creek, 5.3 mi northwest of Berryville, and at mile 35.1.

DRAINAGE AREA.--527 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1939 to September 1975, October 1992 to September 1995, October 1998 to current year. Annual maximum, water years 1976-92, and 1996-98. Monthly discharge only for April 1939, published in WSP 1311.

REVISED RECORDS.--WRD Ark. 1995: 1991 (M), 1992 (M), 1993 (M), 1994 (M).

GAGE.--Water-stage recorder. Datum of gage is 963.10 ft above sea level. Apr. 4 to July 11, 1939, nonrecording gage and July 12, 1939 to Sept. 30, 1951 water-stage recorder at site 5.0 mi upstream at datum 27.71 ft higher. Oct. 1, 1951 to Oct. 22, 1952 and July 18, 1975 to Sept. 30, 1975 nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 4, 1927, reached a stage of about 38.0 ft, present site and datum, from information by local residents, discharge 62,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	46	313	189	933	1050	168	131	199	201	87	11
2	35	49	274	202	703	870	162	122	251	151	69	9.9
3	32	54	245	183	584	741	158	113	230	121	57	9.2
4	31	65	219	169	509	641	153	107	198	97	49	8.2
5	28	68	199	150	453	555	148	103	172	189	44	6.9
6	27	612	185	174	410	485	143	99	143	330	40	6.5
7	27	967	172	248	372	437	138	105	104	238	36	7.9
8	27	576	160	306	344	402	134	107	99	180	41	15
9	27	567	150	353	450	369	130	123	90	133	41	41
10	26	519	144	354	1010	341	128	140	89	107	33	62
11	27	438	138	369	885	317	136	126	81	90	30	89
12	28	350	132	472	703	302	136	130	70	77	37	70
13	28	312	145	645	717	289	190	117	58	76	31	55
14	27	280	151	750	1110	271	256	105	54	117	28	45
15	28	256	144	746	5400	275	253	103	71	210	26	38
16	37	235	183	639	6950	277	263	94	109	179	25	33
17	36	206	339	532	4900	295	330	86	157	148	23	31
18	34	184	410	466	2700	290	300	105	139	122	21	32
19	33	163	364	424	1970	268	274	111	113	99	20	35
20	32	146	312	383	1510	254	252	108	91	83	17	33
21	32	133	277	342	1180	242	239	174	84	71	15	33
22	33	122	233	309	991	232	225	201	81	62	15	30
23	34	117	e215	285	986	223	209	237	77	53	14	30
24	31	137	199	268	3070	214	197	214	66	48	13	28
25	33	1090	185	251	4550	203	195	172	58	48	12	26
26	34	1500	184	238	2660	195	198	142	54	49	12	25
27	35	813	180	226	1770	189	181	120	53	49	10	24
28	44	578	177	218	1340	182	168	103	59	82	8.7	22
29	50	454	186	476	---	178	154	93	504	180	9.6	20
30	44	371	192	2320	---	177	141	104	305	201	14	19
31	45	---	195	1530	---	175	---	135	---	122	12	---
TOTAL	1026	11408	6602	14217	49160	10939	5759	3930	3859	3913	890.3	895.6
MEAN	33.1	380	213	459	1756	353	192	127	129	126	28.7	29.9
MAX	50	1500	410	2320	6950	1050	330	237	504	330	87	89
MIN	26	46	132	150	344	175	128	86	53	48	8.7	6.5
AC-FT	2040	22630	13100	28200	97510	21700	11420	7800	7650	7760	1770	1780
CFSM	.06	.72	.40	.87	3.33	.67	.36	.24	.24	.24	.05	.06
IN.	.07	.81	.47	1.00	3.47	.77	.41	.28	.27	.28	.06	.06

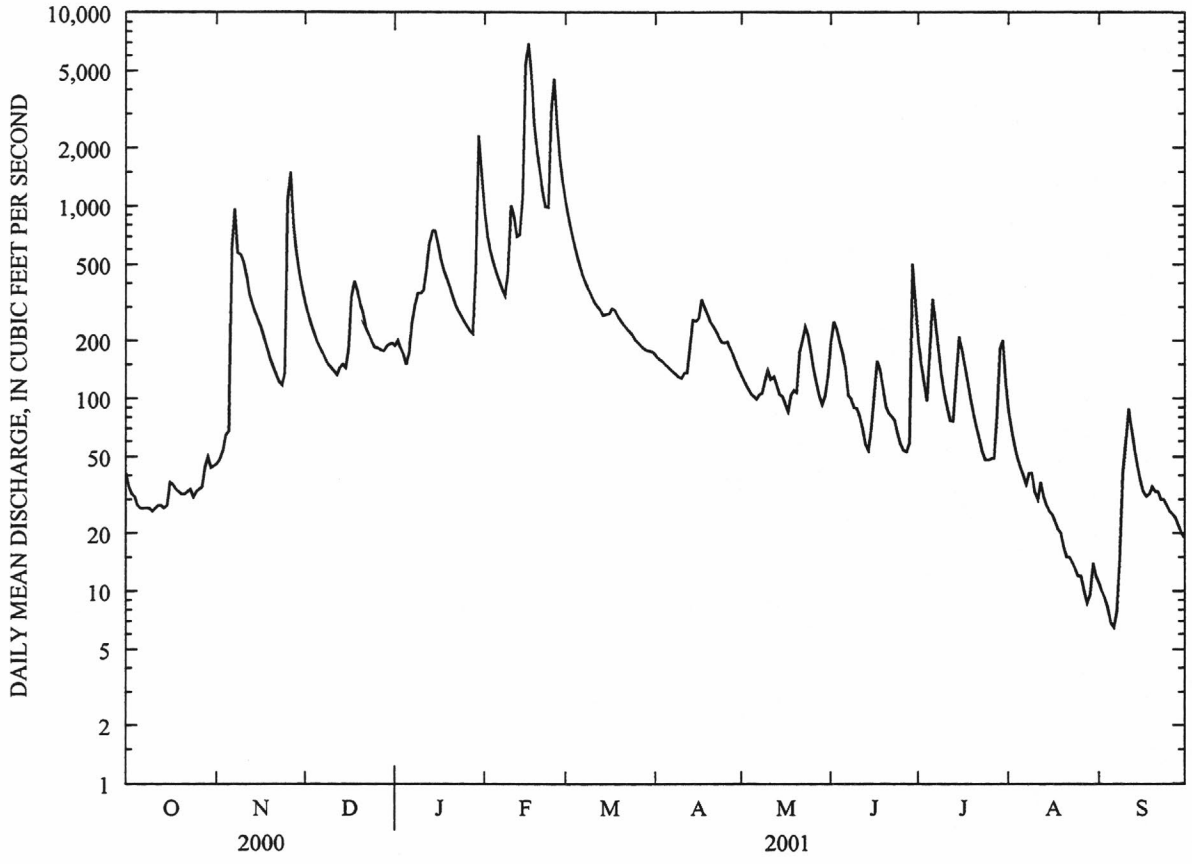
07050500 KINGS RIVER NEAR BERRYVILLE--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-75, 1993-95, 1999-01, BY WATER YEAR (WY)

MEAN	191	553	497	577	835	977	1188	1225	534	226	106	120
MAX	1471	2330	2100	2119	2792	3472	5184	4570	2494	1252	923	789
(WY)	1971	1975	1969	1950	1951	1945	1945	1961	1957	1960	1950	1970
MIN	1.49	6.14	14.0	12.9	35.7	94.3	128	127	38.2	9.21	1.08	4.25
(WY)	1964	1964	1964	1964	1964	1972	1963	2001	1972	1954	1954	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939-75, 1993-95, 1999-01	
ANNUAL TOTAL	116394.9		112598.9			
ANNUAL MEAN	318		308		582	
HIGHEST ANNUAL MEAN					1251	1945
LOWEST ANNUAL MEAN					88.3	1954
HIGHEST DAILY MEAN	9110	Jun 18	6950	Feb 16	37300	Apr 15 1945
LOWEST DAILY MEAN	9.9	Sep 22	6.5	Sep 6	.20	Aug 17 1954
ANNUAL SEVEN-DAY MINIMUM	13	Sep 17	8.5	Sep 1	.40	Aug 13 1954
MAXIMUM PEAK FLOW			8980	Feb 16	[a]66000	Nov 19 1985
MAXIMUM PEAK STAGE			13.01	Feb 16	38.91	Nov 19 1985
INSTANTANEOUS LOW FLOW			6.0	Sep 6	.10	Aug 27-28 1954
ANNUAL RUNOFF (AC-FT)	230900		223300		421400	
ANNUAL RUNOFF (CFSM)	.60		.59		1.10	
ANNUAL RUNOFF (INCHES)	8.22		7.95		15.00	
10 PERCENT EXCEEDS	504		595		1330	
50 PERCENT EXCEEDS	152		146		175	
90 PERCENT EXCEEDS	33		27		20	

[a]Occurred during period of computation of annual maximum only, water years 1976-92
[e]Estimated



07050500 KINGS RIVER NEAR BERRYVILLE--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JAN										
30...	0815	81213	80513	3060	739	11.2	95	8.0	213	6.9
FEB										
15...	0930	81213	80513	4620	754	10.7	94	7.9	212	9.2
16...	0430	81213	80513	7700	755	10	86	7.7	125	8.5
17...	1400	81213	80513	4730	760	11.7	96	7.0	137	6.9

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
JAN										
30...	100	30.0	6.20	1.60	.1	2.1	4	4.1	6.3	118
FEB										
15...	98	27.0	7.40	1.90	.1	2.0	4	3.7	5.9	126
16...	56	17.0	3.20	1.40	.1	1.4	5	2.7	4.3	79
17...	62	19.0	3.50	1.20	.1	1.5	5	3.1	4.5	85

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)
JAN										
30...	.018	1.6	.02	--	--	1.40	--	<.010	1.6	3.0
FEB										
15...	.015	1.4	.02	1.59	7.04	1.60	.033	.010	1.4	3.0
16...	.016	1.0	.02	--	--	1.40	--	<.010	.98	2.4
17...	.016	.45	.02	--	--	1.60	--	<.010	.43	2.1

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JAN										
30...	.092	.030	.030	.210	940	1800	E12000	74	243	2010
FEB										
15...	.184	.070	.060	.250	4700	4300	E15000	65	307	3830
16...	.061	<.020	.020	.150	1400	1000	1600	69	285	5930
17...	.061	<.020	.020	.050	360	480	730	73	97	1240

Remark codes used in this report:
< -- Less than
E -- Estimated value

07053250 YOCUM CREEK NEAR OAK GROVE

LOCATION.--Lat 36°27'17", long 93°21'21", in SW1/4NE1/4 sec.30, T.21 N., R.22 W., Carroll County, Hydrologic Unit 11010001, on right bank 50 ft upstream from County Road 86, 0.4 mi downstream from Stillhouse Creek, and 4.7 mi east of Oak Grove.

DRAINAGE AREA.--52.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1993 to current year. Occasional low-flow measurements 1964-67, 1987-88.

GAGE.--Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	6.5	24	13	64	126	21	13	12	8.8	19	5.0
2	12	6.9	21	12	52	110	21	12	12	8.8	14	5.6
3	10	6.6	19	10	43	97	19	12	12	7.4	12	6.0
4	9.7	6.8	18	10	37	87	19	12	12	6.8	11	5.8
5	9.4	7.8	15	11	31	76	18	13	10	20	11	5.2
6	9.2	28	14	14	25	67	18	14	9.9	50	9.9	5.0
7	8.6	15	14	41	23	61	19	15	9.6	24	8.1	5.5
8	10	11	13	42	21	56	19	12	9.3	18	7.7	8.3
9	11	13	13	34	34	52	18	12	9.0	14	8.8	15
10	8.8	11	14	34	50	50	16	11	9.1	12	8.1	15
11	8.0	9.8	14	39	46	48	16	13	9.1	11	7.9	11
12	7.9	8.7	12	60	43	46	15	14	7.9	9.9	9.0	8.7
13	8.9	8.1	15	66	44	42	15	13	6.0	9.6	8.4	7.6
14	9.4	7.0	12	81	78	40	15	12	8.0	9.4	7.5	6.9
15	11	6.7	12	75	323	41	18	11	17	10	6.4	6.7
16	13	6.3	15	61	276	39	16	11	17	11	6.1	6.5
17	10	5.8	21	51	206	36	15	11	14	9.8	6.1	6.5
18	9.4	5.3	22	42	162	34	14	14	11	8.9	6.2	6.2
19	9.8	5.6	19	36	135	32	14	16	8.6	9.1	6.6	5.7
20	8.9	5.4	17	31	113	29	14	15	7.9	9.0	6.7	5.4
21	8.4	4.7	16	28	95	28	15	17	8.8	8.5	5.6	5.2
22	9.7	4.4	15	24	81	27	15	16	8.0	9.1	5.0	5.1
23	9.2	4.5	14	21	72	25	15	14	7.6	9.2	4.9	5.8
24	7.7	6.9	15	19	288	25	14	13	8.2	9.0	4.9	6.3
25	6.4	44	15	18	307	25	13	12	7.9	11	5.1	5.6
26	6.4	27	15	17	222	23	13	11	6.9	11	5.9	5.0
27	7.5	33	13	17	177	21	13	12	6.8	14	6.0	4.9
28	7.4	32	12	18	145	21	14	12	7.9	64	5.3	5.3
29	8.2	31	12	75	---	21	14	11	7.3	130	5.0	4.8
30	8.4	30	12	110	---	21	14	12	8.4	66	5.4	5.1
31	7.1	---	13	83	---	21	---	13	---	31	5.2	---
TOTAL	284.4	398.8	476	1193	3193	1427	480	399	289.2	630.3	238.8	200.7
MEAN	9.17	13.3	15.4	38.5	114	46.0	16.0	12.9	9.64	20.3	7.70	6.69
MAX	13	44	24	110	323	126	21	17	17	130	19	15
MIN	6.4	4.4	12	10	21	21	13	11	6.0	6.8	4.9	4.8
AC-FT	564	791	944	2370	6330	2830	952	791	574	1250	474	398
CFSM	.17	.25	.29	.73	2.16	.87	.30	.24	.18	.39	.15	.13
IN.	.20	.28	.34	.84	2.25	1.01	.34	.28	.20	.44	.17	.14

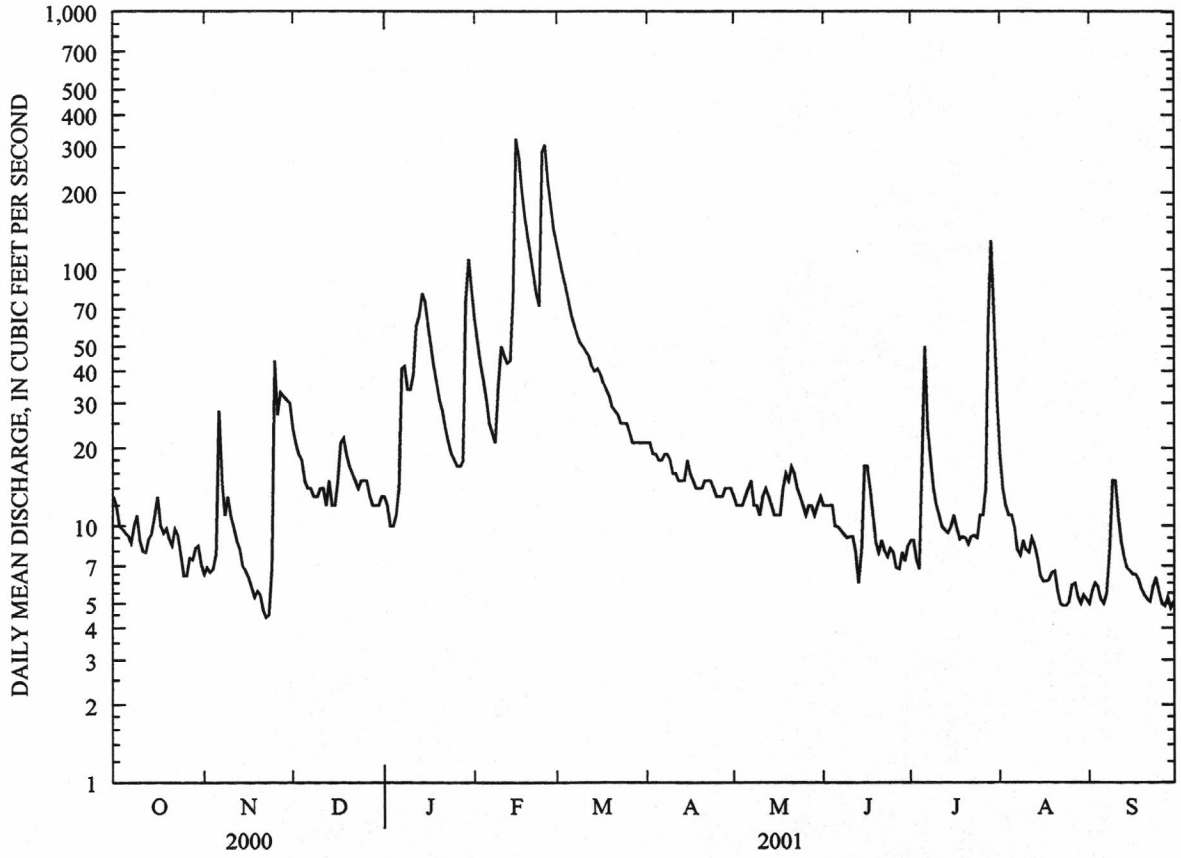
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	12.8	57.2	34.5	66.9	72.2	89.5	69.7	51.3	49.1	29.4	18.8	18.0
MAX	21.3	233	68.3	208	134	175	144	99.9	137	63.2	39.4	45.0
(WY)	1994	1997	1997	1998	1998	1998	1994	1995	2000	1993	2000	1996
MIN	7.71	6.80	14.2	19.5	26.7	27.1	15.2	12.9	9.64	12.8	7.70	6.69
(WY)	1995	2000	1999	2000	2000	2000	2000	2001	2001	1997	2001	2001

07053250 YOCUM CREEK NEAR OAK GROVE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL TOTAL	11891.1		9210.2			
ANNUAL MEAN	32.5		25.2		46.5	
HIGHEST ANNUAL MEAN					63.0	1994
LOWEST ANNUAL MEAN					25.2	2001
HIGHEST DAILY MEAN	529	Jun 17	323	Feb 15	1940	Jan 5 1998
LOWEST DAILY MEAN	4.4	Nov 22	4.4	Nov 22	2.5	Feb 9 1998
ANNUAL SEVEN-DAY MINIMUM	5.1	Nov 17	5.1	Nov 17	3.0	Feb 4 1998
MAXIMUM PEAK FLOW			584	Feb 24	[a]3740	Jan 5 1998
MAXIMUM PEAK STAGE			5.19	Feb 24	10.05	Oct 15 1997
INSTANTANEOUS LOW FLOW			4.3	Nov 22,23	2.3	Feb 9 1998
ANNUAL RUNOFF (AC-FT)	23590		18270		33660	
ANNUAL RUNOFF (CFSM)	.62		.48		.88	
ANNUAL RUNOFF (INCHES)	8.38		6.49		11.96	
10 PERCENT EXCEEDS	75		52		106	
50 PERCENT EXCEEDS	16		13		21	
90 PERCENT EXCEEDS	8.7		6.0		8.6	

[a]From rating curve extended above 930 ft^3/s



07053250 YOCUM CREEK NEAR OAK GROVE--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
OCT											
11...	1510	80020	80513	8.0	732	9.1	99	8.4	365	17.6	32
NOV											
08...	1500	80020	80513	11	748	10.1	96	8.1	404	12.4	26
DEC											
12...	1400	80020	80513	12	763	13.8	113	8.3	395	6.5	23
JAN											
09...	1415	80020	80513	34	759	15.0	125	8.7	395	7.2	36
FEB											
07...	1505	80020	80513	22	751	14.6	136	8.9	354	11.4	31
MAR											
07...	0840	80020	80513	62	758	11.3	99	8.3	358	9.5	32
APR											
17...	1440	80020	80513	15	763	11.7	122	8.1	354	17.2	30
MAY											
24...	0645	80020	80513	13	748	7.5	78	7.9	375	16.0	23
JUN											
26...	1350	80020	80513	7.0	756	8.2	99	8.0	350	24.6	24
JUL											
17...	1230	80020	80513	9.9	752	9.9	123	8.1	362	25.3	18
AUG											
16...	0840	80020	80513	6.1	740	7.6	91	7.6	376	22.9	--
SEP											
11...	1445	80020	80513	10	745	9.2	111	8.2	367	23.5	29

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT									
11...	170	64.1	3.13	2.57	.1	4.5	5	139	141
NOV									
08...	180	66.9	3.40	3.09	.2	5.9	6	155	155
DEC									
12...	170	64.1	3.31	2.52	.2	5.6	6	150	151
JAN									
09...	180	66.3	3.79	3.21	.2	7.1	8	145	145
FEB									
07...	160	59.8	3.50	2.82	.2	5.1	6	135	133
MAR									
07...	160	60.1	3.27	2.86	.2	4.5	5	131	131
APR									
17...	160	60.4	3.30	2.59	.2	5.1	6	135	135
MAY									
24...	170	64.1	3.29	2.66	.2	5.5	6	150	151
JUN									
26...	170	61.5	3.26	2.86	.2	5.7	7	143	142
JUL									
17...	170	61.4	3.22	2.88	.2	5.5	7	148	148
AUG									
16...	170	63.4	3.16	3.10	.2	5.0	6	183	186
SEP									
11...	170	62.9	3.19	3.18	.2	5.1	6	143	141

07053250 YOCUM CREEK NEAR OAK GROVE--CONTINUED

DATE	TIME	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD (MG/L CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT											
11...	1510	172	.0	9.5	<.2	9.9	5.0	.29	4.60	213	196
NOV											
08...	1500	189	.0	12.5	<.2	9.5	6.8	.31	6.77	228	220
DEC											
12...	1400	101	41	11.9	<.2	7.3	7.7	.31	7.29	225	218
JAN											
09...	1415	73	51	16.1	<.2	5.4	8.9	.31	20.8	227	222
FEB											
07...	1505	113	24	11.3	<.2	5.1	6.8	.27	12.0	202	201
MAR											
07...	0840	160	.0	9.7	<.2	7.9	5.9	.28	35.0	209	201
APR											
17...	1440	164	.0	11.1	<.2	8.5	5.6	.29	8.63	213	193
MAY											
24...	0645	184	.0	11.3	<.2	11.1	6.0	.29	7.44	212	210
JUN											
26...	1350	174	.0	11.6	<.2	13.1	5.3	.27	3.80	201	200
JUL											
17...	1230	181	.0	11.7	<.2	12.8	5.9	.30	5.96	223	203
AUG											
16...	0840	227	.0	10.3	<.2	12.5	5.4	.27	3.29	200	227
SEP											
11...	1445	172	.0	10.8	<.2	12.1	5.3	.29	5.75	213	199

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT											
11...	<.041	E.08	.94	--	--	--	2.93	--	E.003	3.9	.123
NOV											
08...	<.041	.14	.16	4.3	--	--	4.17	--	E.003	4.3	.169
DEC											
12...	<.041	E.10	.09	--	--	--	5.61	--	E.003	5.7	.092
JAN											
09...	<.041	.22	.23	5.8	5.56	24.6	5.57	.039	.012	5.8	.190
FEB											
07...	<.041	.14	.20	6.1	5.94	26.3	5.95	.026	.008	6.1	.110
MAR											
07...	<.041	.12	.12	6.5	--	--	6.41	--	E.005	6.5	.169
APR											
17...	<.041	.11	.18	3.7	3.61	16.0	3.62	.033	.010	3.8	.098
MAY											
24...	E.022	E.06	.10	--	--	--	3.44	--	E.005	3.5	.092
JUN											
26...	E.024	.11	.13	2.6	2.49	11.0	2.50	.036	.011	2.6	.092
JUL											
17...	<.040	E.10	.14	--	2.35	10.4	2.35	.023	.007	2.5	.101
AUG											
16...	<.040	E.08	.11	--	--	--	2.81	--	<.006	2.9	.110
SEP											
11...	<.040	E.09	.11	--	--	--	2.56	--	<.006	2.7	.104

DATE	TIME	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
OCT										
11...	1510	.039	.040	.047	E5	E3	E6	<10	<3.2	--
NOV										
08...	1500	.061	.055	.065	210	230	440	<10	E1.7	--
DEC										
12...	1400	.036	.030	.037	E3	E2	E11	<10	<3.2	--
JAN										
09...	1415	.070	.062	.074	28	44	230	<10	<3.2	--
FEB										
07...	1505	.039	.036	.046	20	E12	21	<10	<3.2	<.002
MAR										
07...	0840	.058	.055	.065	49	77	21	<10	<3.2	<.002
APR										
17...	1440	.041	.032	.045	120	E170	20	<10	E2.6	<.002
MAY										
24...	0645	.043	.030	.043	66	360	360	<10	E1.6	<.002
JUN										
26...	1350	.038	.030	.042	41	80	69	<10	E2.8	<.002
JUL										
17...	1230	.043	.033	.043	26	43	190	<10	<3.0	<.002
AUG										
16...	0840	.047	.036	.050	49	61	130	<10	E3.0	<.002
SEP										
11...	1445	.045	.034	.048	33	100	190	<10	E2.2	<.002

07053250 YOCUM CREEK NEAR OAK GROVE--CONTINUED

DATE	TIME	ACETO-CHLOR, WAT FLD FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE FLTRD DISS, REC (UG/L) (39632)	BEN-FLUR-WATER, FLTRD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
FEB											
07...	1505	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
MAR											
07...	0840	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
APR											
17...	1440	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
MAY											
24...	0645	<.004	<.002	<.005	E.004	<.010	<.002	<.041	<.020	<.005	<.018
JUN											
26...	1350	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
JUL											
17...	1230	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
AUG											
16...	0840	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018
SEP											
11...	1445	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018

DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)
FEB										
07...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
MAR										
07...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
APR										
17...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
MAY										
24...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
JUN										
26...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
JUL										
17...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
AUG										
16...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
SEP										
11...	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)
FEB										
07...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
MAR										
07...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
APR										
17...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
MAY										
24...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
JUN										
26...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
JUL										
17...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
AUG										
16...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007
SEP										
11...	<.035	<.027	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007

07053250 YOCUM CREEK NEAR OAK GROVE--CONTINUED

DATE	TIME	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)
FEB											
07...	1505	<.002	<.010	<.006	<.011	E.002	<.004	<.010	<.011	<.023	<.011
MAR											
07...	0840	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011
APR											
17...	1440	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011
MAY											
24...	0645	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011
JUN											
26...	1350	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011
JUL											
17...	1230	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011
AUG											
16...	0840	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011
SEP											
11...	1445	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011	<.023	<.011

DATE	TIME	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT										
11...	1510	--	--	--	--	--	--	90	74	1.6
NOV										
08...	1500	--	--	--	--	--	--	42	92	2.7
DEC										
12...	1400	--	--	--	--	--	--	74	113	3.7
JAN										
09...	1415	--	--	--	--	--	--	91	24	2.2
FEB										
07...	1505	E.011	<.034	<.017	<.005	<.002	<.009	85	47	2.8
MAR										
07...	0840	<.016	<.034	<.017	<.005	<.002	<.009	99	30	5.0
APR										
17...	1440	E.006	<.034	<.017	<.005	<.002	<.009	85	21	.85
MAY										
24...	0645	E.009	<.034	<.017	<.005	<.002	<.009	39	111	3.9
JUN										
26...	1350	E.004	<.034	<.017	<.005	<.002	<.009	44	49	.93
JUL										
17...	1230	<.016	<.034	<.017	<.005	<.002	<.009	60	46	1.2
AUG										
16...	0840	E.007	<.034	<.017	<.005	<.002	<.009	59	91	1.5
SEP										
11...	1445	<.016	<.034	<.017	<.005	<.002	<.009	41	50	1.4

Remark codes used in this report:
< -- Less than
E -- Estimated value

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI

LOCATION.--Lat 36°35'46", long 93°18'35", in NW1/4 sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek, and 6.1 mi southwest of Branson, Missouri.

DRAINAGE AREA.--4,020 mi².

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
10...	0859	80513	200	.000	4.50	757	7.2	79	7.5	236	19.2
10...	0900	80513	200	10.0	--	757	6.9	75	7.5	236	19.4
10...	0901	80513	200	20.0	--	757	7.0	77	7.5	237	19.4
10...	0902	80513	200	30.0	--	757	6.9	75	7.5	234	19.5
10...	0903	80513	200	40.0	--	757	6.3	69	7.6	238	19.5
10...	0904	80513	200	50.0	--	757	7.0	77	7.6	240	19.5
10...	0906	80513	200	54.0	--	757	7.0	77	7.5	239	19.5
10...	0907	80513	200	55.0	--	757	1.6	18	7.3	235	18.7
10...	0908	80513	200	56.0	--	757	.3	3	7.2	235	17.8
10...	0909	80513	200	58.0	--	757	.1	1	7.2	237	17.3
10...	0910	80513	200	60.0	--	757	.1	1	7.2	232	17.2
10...	0911	80513	200	70.0	--	757	.1	1	7.2	229	16.2
10...	0912	80513	200	80.0	--	757	.1	1	7.2	232	15.5
10...	0913	80513	200	90.0	--	757	.2	2	7.2	219	14.5
10...	0914	80513	200	100	--	757	1.0	10	7.2	210	13.5
10...	0915	80513	200	110	--	757	.9	9	7.2	210	13.0
10...	0916	80513	200	120	--	757	.4	4	7.2	227	12.5
10...	0917	80513	200	130	--	757	.1	1	7.3	239	11.9
10...	0918	80513	200	140	--	757	.1	1	7.3	251	11.2
10...	0919	80513	200	150	--	757	.1	0	7.3	252	10.6
10...	0920	80513	200	160	--	757	.1	0	7.3	251	10.2
10...	0921	80513	200	170	--	757	.1	0	7.3	250	9.9
10...	0922	80513	200	180	--	757	.1	0	7.3	249	9.8
10...	0923	80513	200	190	--	757	.1	0	7.3	250	9.7
10...	0924	80513	200	200	--	757	.1	0	7.2	250	9.5
NOV											
07...	0807	80513	172	.000	5.10	752	7.6	81	7.3	229	18.1
07...	0808	80513	172	11.0	--	752	7.5	81	7.4	229	18.1
07...	0809	80513	172	20.0	--	752	7.5	80	7.5	229	18.1
07...	0810	80513	172	30.0	--	752	7.4	80	7.5	228	18.2
07...	0811	80513	172	40.0	--	752	7.4	80	7.6	228	18.2
07...	0812	80513	172	50.0	--	752	7.4	80	7.6	228	18.2
07...	0813	80513	172	60.0	--	752	.4	4	7.3	192	16.8
07...	0814	80513	172	70.0	--	752	.2	2	7.2	204	16.4
07...	0815	80513	172	80.0	--	752	.2	2	7.2	210	15.5
07...	0816	80513	172	90.0	--	752	.2	2	7.2	218	15.0
07...	0817	80513	172	100	--	752	.2	2	7.2	212	14.3
07...	0818	80513	172	110	--	752	.4	4	7.3	209	13.0
07...	0819	80513	172	120	--	752	.1	1	7.3	222	12.6
07...	0820	80513	172	130	--	752	.1	1	7.3	238	12.0
07...	0821	80513	172	140	--	752	.1	1	7.3	246	11.3
07...	0822	80513	172	150	--	752	.1	1	7.4	249	10.8
07...	0823	80513	172	160	--	752	.1	1	7.4	249	10.2
07...	0824	80513	172	170	--	752	.1	1	7.3	249	9.9
07...	0825	80513	172	180	--	752	.1	0	7.3	249	9.9
MAR											
27...	0817	80513	177	.000	3.50	758	11.5	96	7.5	226	7.1
27...	0818	80513	177	10.0	--	758	11.6	96	7.5	225	7.1
27...	0819	80513	177	20.0	--	758	11.3	94	7.6	225	7.1
27...	0820	80513	177	30.0	--	758	11.2	93	7.7	225	7.0
27...	0821	80513	177	40.0	--	758	11.0	91	7.7	225	7.0
27...	0824	80513	177	50.0	--	758	11.1	92	7.7	224	7.0
27...	0825	80513	177	60.0	--	758	11.0	91	7.7	227	6.9
27...	0826	80513	177	70.0	--	758	10.9	90	7.7	224	6.9
27...	0827	80513	177	80.0	--	758	10.8	89	7.7	226	6.8
27...	0828	80513	177	90.0	--	758	11.0	90	7.7	224	6.7
27...	0829	80513	177	100	--	758	10.8	88	7.6	224	6.3
27...	0830	80513	177	110	--	758	10.4	84	7.6	228	6.1
27...	0831	80513	177	120	--	758	10.2	83	7.6	227	6.0
27...	0832	80513	177	130	--	758	10	80	7.5	226	6.0
27...	0833	80513	177	140	--	758	10.3	83	7.5	228	5.8
27...	0834	80513	177	150	--	758	10.1	81	7.5	234	5.7
27...	0835	80513	177	160	--	758	9.8	79	7.4	240	5.6
27...	0836	80513	177	170	--	758	9.5	75	7.4	248	5.5
27...	0837	80513	177	177	--	758	9.3	74	7.4	249	5.5

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JUN											
18...	1247	80513	173	.90	5.50	747	8.6	110	8.3	234	27.2
18...	1248	80513	173	10.1	--	747	8.7	112	8.3	233	26.8
18...	1250	80513	173	16.0	--	747	9.3	118	8.3	231	26.2
18...	1251	80513	173	17.0	--	747	9.7	121	8.4	231	25.6
18...	1253	80513	173	20.1	--	747	9.8	121	8.3	231	25.2
18...	1254	80513	173	21.9	--	747	9.9	121	8.3	231	24.5
18...	1255	80513	173	24.1	--	747	10.2	121	8.3	231	23.2
18...	1256	80513	173	25.0	--	747	10.1	120	8.3	232	22.7
18...	1257	80513	173	26.0	--	747	9.9	116	8.3	232	22.0
18...	1258	80513	173	27.0	--	747	10	115	8.3	234	21.2
18...	1259	80513	173	29.1	--	747	9.7	109	8.2	235	20.2
18...	1300	80513	173	30.1	--	747	9.7	108	8.2	235	19.8
18...	1301	80513	173	32.0	--	747	9.5	106	8.1	235	19.6
18...	1302	80513	173	34.1	--	747	9.2	99	8.0	236	18.0
18...	1303	80513	173	36.0	--	747	8.9	93	7.9	236	16.6
18...	1304	80513	173	36.9	--	747	8.9	92	7.8	236	15.9
18...	1305	80513	173	38.0	--	747	8.8	90	7.8	236	15.5
18...	1306	80513	173	39.1	--	747	8.8	88	7.7	235	14.7
18...	1307	80513	173	40.0	--	747	8.8	88	7.7	236	14.2
18...	1308	80513	173	43.0	--	747	8.8	85	7.6	235	13.1
18...	1309	80513	173	46.0	--	747	8.8	84	7.6	235	12.0
18...	1310	80513	173	50.2	--	747	8.8	82	7.6	234	11.1
18...	1311	80513	173	55.0	--	747	8.5	77	7.5	234	10.2
18...	1313	80513	173	59.9	--	747	8.2	74	7.4	234	9.5
18...	1315	80513	173	67.0	--	747	7.9	69	7.3	234	8.8
18...	1316	80513	173	70.2	--	747	7.7	67	7.3	234	8.4
18...	1318	80513	173	80.2	--	747	7.8	66	7.2	236	7.7
18...	1319	80513	173	90.2	--	747	7.8	66	7.2	236	7.4
18...	1320	80513	173	100	--	747	7.7	65	7.2	237	7.1
18...	1321	80513	173	110	--	747	8.0	67	7.2	236	7.0
18...	1322	80513	173	120	--	747	8.2	69	7.2	238	6.7
18...	1324	80513	173	130	--	747	8.4	70	7.2	242	6.5
18...	1325	80513	173	140	--	747	8.0	66	7.1	250	6.4
18...	1326	80513	173	150	--	747	7.2	60	7.1	256	6.3
18...	1327	80513	173	160	--	747	6.8	56	7.0	261	6.2
18...	1328	80513	173	164	--	747	6.3	52	7.0	263	6.2
18...	1329	80513	173	170	--	747	5.9	49	7.0	264	6.2
18...	1330	80513	173	173	--	747	5.3	44	6.9	265	6.2
JUL											
16...	1439	80513	170	.30	4.10	744	9.0	117	8.3	220	27.5
16...	1440	80513	170	10.1	--	744	9.1	118	8.3	220	27.4
16...	1442	80513	170	20.1	--	744	8.9	115	8.3	221	27.4
16...	1443	80513	170	22.9	--	744	10.5	135	8.3	221	26.6
16...	1444	80513	170	24.0	--	744	11.3	137	8.3	224	23.9
16...	1445	80513	170	25.0	--	744	11.0	131	8.3	227	22.8
16...	1446	80513	170	27.1	--	744	10.9	128	8.3	227	22.1
16...	1447	80513	170	28.0	--	744	9.9	113	8.2	231	20.3
16...	1448	80513	170	30.0	--	744	9.6	107	8.1	231	19.8
16...	1449	80513	170	31.8	--	744	9.2	102	8.1	232	19.2
16...	1450	80513	170	36.0	--	744	8.5	91	7.9	234	17.6
16...	1451	80513	170	38.0	--	744	8.2	86	7.8	233	16.8
16...	1452	80513	170	40.2	--	744	7.9	82	7.8	233	15.6
16...	1453	80513	170	45.1	--	744	7.7	76	7.7	233	14.1
16...	1454	80513	170	50.1	--	744	7.6	73	7.7	234	12.8
16...	1455	80513	170	55.0	--	744	7.6	71	7.6	232	11.4
16...	1456	80513	170	59.9	--	744	7.2	66	7.6	230	10.6
16...	1457	80513	170	70.0	--	744	6.8	60	7.5	228	9.4
16...	1458	80513	170	79.8	--	744	6.7	58	7.5	231	8.5
16...	1459	80513	170	90.1	--	744	6.8	59	7.4	228	7.9
16...	1500	80513	170	100	--	744	7.2	62	7.4	232	7.5
16...	1501	80513	170	110	--	744	7.3	62	7.4	233	7.2
16...	1502	80513	170	120	--	744	7.3	62	7.3	234	7.0
16...	1503	80513	170	130	--	744	6.8	57	7.3	236	6.9
16...	1504	80513	170	140	--	744	6.7	56	7.2	237	6.7
16...	1505	80513	170	150	--	744	6.7	56	7.2	242	6.5
16...	1506	80513	170	160	--	744	5.9	49	7.1	253	6.5
16...	1507	80513	170	170	--	744	5.3	44	7.1	256	6.4

07053400 TABLE ROCK LAKE NEAR BRANSON, MISSOURI--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
AUG											
14...	1321	80513	171	.000	4.60	747	10.4	140	8.1	221	29.8
14...	1322	80513	171	10.0	--	747	10.5	141	8.1	221	29.4
14...	1323	80513	171	20.0	--	747	10.6	141	8.1	220	29.3
14...	1325	80513	171	23.0	--	747	10.5	140	8.1	220	29.3
14...	1326	80513	171	24.1	--	747	12.6	164	8.1	223	27.8
14...	1327	80513	171	25.1	--	747	12.8	164	8.1	224	26.9
14...	1328	80513	171	26.0	--	747	13.4	170	8.2	223	26.4
14...	1329	80513	171	28.0	--	747	12.9	162	8.1	226	25.6
14...	1330	80513	171	30.0	--	747	12.7	155	8.1	228	24.5
14...	1331	80513	171	32.1	--	747	12.3	148	8.0	230	23.5
14...	1332	80513	171	34.1	--	747	11.7	138	8.0	231	22.4
14...	1333	80513	171	36.0	--	747	10.4	119	7.8	234	20.9
14...	1334	80513	171	38.0	--	747	10.1	113	7.8	234	20.1
14...	1335	80513	171	40.1	--	747	9.2	101	7.7	236	18.7
14...	1336	80513	171	42.1	--	747	8.6	92	7.6	236	17.6
14...	1337	80513	171	44.0	--	747	8.1	85	7.6	236	16.7
14...	1338	80513	171	46.0	--	747	7.6	79	7.5	236	16.0
14...	1339	80513	171	50.0	--	747	7.2	72	7.5	237	14.6
14...	1340	80513	171	55.0	--	747	7.0	69	7.4	236	13.8
14...	1341	80513	171	59.9	--	747	7.2	69	7.4	236	12.7
14...	1342	80513	171	65.0	--	747	7.3	68	7.4	235	11.5
14...	1343	80513	171	70.0	--	747	7.0	65	7.3	236	11.0
14...	1344	80513	171	80.1	--	747	6.6	59	7.3	236	9.7
14...	1345	80513	171	90.0	--	747	6.5	57	7.2	237	9.0
14...	1346	80513	171	100	--	747	6.8	59	7.2	238	8.5
14...	1347	80513	171	110	--	747	6.8	59	7.2	239	8.2
14...	1348	80513	171	120	--	747	7.1	61	7.2	239	7.9
14...	1349	80513	171	130	--	747	7.2	61	7.1	243	7.5
14...	1350	80513	171	140	--	747	6.4	54	7.1	250	7.3
14...	1351	80513	171	150	--	747	5.9	50	7.0	254	7.1
14...	1352	80513	171	160	--	747	4.7	39	7.0	257	6.9
14...	1353	80513	171	170	--	747	4.1	35	6.9	258	6.8
14...	1354	80513	171	172	--	747	4.0	34	6.9	258	6.8
SEP											
26...	1059	80513	169	.50	6.80	765	8.3	97	8.0	226	22.8
26...	1100	80513	169	10.0	--	765	8.3	96	8.1	226	22.7
26...	1101	80513	169	19.9	--	765	8.2	95	8.1	225	22.9
26...	1102	80513	169	30.2	--	765	8.2	95	8.1	225	22.8
26...	1103	80513	169	39.9	--	765	7.1	82	8.0	227	22.5
26...	1104	80513	169	41.0	--	765	5.0	56	7.6	236	20.9
26...	1105	80513	169	42.0	--	765	4.3	47	7.5	241	19.6
26...	1106	80513	169	44.0	--	765	3.5	37	7.4	239	18.4
26...	1107	80513	169	46.1	--	765	2.9	30	7.4	241	17.4
26...	1108	80513	169	48.0	--	765	2.6	27	7.4	237	16.6
26...	1109	80513	169	50.0	--	765	2.3	23	7.4	233	15.7
26...	1110	80513	169	55.0	--	765	2.3	22	7.4	230	14.6
26...	1111	80513	169	60.1	--	765	2.4	23	7.4	235	14.0
26...	1112	80513	169	70.0	--	765	3.6	33	7.5	241	12.0
26...	1113	80513	169	80.1	--	765	3.7	33	7.6	240	10.4
26...	1114	80513	169	90.0	--	765	3.7	33	7.6	241	9.5
26...	1115	80513	169	100	--	765	3.9	33	7.6	239	8.8
26...	1116	80513	169	110	--	765	4.0	34	7.6	241	8.3
26...	1117	80513	169	120	--	765	3.9	33	7.6	244	8.0
26...	1118	80513	169	130	--	765	3.5	29	7.5	248	7.7
26...	1119	80513	169	140	--	765	3.5	29	7.8	253	7.5
26...	1120	80513	169	150	--	765	2.4	20	7.5	255	7.3
26...	1121	80513	169	160	--	765	2.1	17	7.4	255	7.2
26...	1122	80513	169	169	--	765	1.5	13	7.3	255	7.1

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

LOCATION.--Lat 36°35'40", long 93°18'33", in NW1/4 sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek and 6.1 mi southwest of Branson, Missouri.

DRAINAGE AREA.--4,020 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT									
10...	0822	80513	80513	762	5.3	49	7.0	232	11.7
NOV									
07...	0856	80513	80513	754	6.8	65	7.3	233	12.2
MAR									
27...	0905	80513	80513	764	11.7	94	7.6	231	6.2
JUN									
18...	1403	80513	80513	751	9.6	82	7.9	248	8.1
JUL									
16...	1410	80513	80513	748	9.0	77	8.3	239	7.5
AUG									
14...	1254	80513	80513	751	10.1	88	9.5	245	8.8
SEP									
26...	1029	80513	80513	765	9.9	91	7.2	264	11.4

07054500 BULL SHOALS LAKE NEAR FLIPPIN

LOCATION.--Lat 36°21'56", long 92°34'29", in NW1/4 sec.21, T.20 N., R.15 W., Marion County, Hydrologic Unit 11010003, at dam on White River, 6.3 mi northeast of Flippin, 12.5 mi downstream from Little North Fork, and at mile 418.6.

DRAINAGE AREA.--6,051 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
11...	0958	80513	160	.000	5.50	765	7.9	87	8.0	261	20.2
11...	0959	80513	160	10.0	--	765	7.9	87	8.1	261	20.2
11...	1000	80513	160	20.0	--	765	7.9	86	8.1	261	20.2
11...	1001	80513	160	30.0	--	765	7.8	86	8.1	262	20.1
11...	1002	80513	160	40.0	--	765	7.8	86	8.1	261	20.3
11...	1003	80513	160	50.0	--	765	7.4	81	8.1	261	20.2
11...	1006	80513	160	51.0	--	765	2.7	29	7.7	270	19.5
11...	1007	80513	160	52.0	--	765	.3	3	7.5	280	18.6
11...	1008	80513	160	60.0	--	765	.7	7	7.5	274	17.5
11...	1009	80513	160	70.0	--	765	1.2	13	7.5	270	16.8
11...	1010	80513	160	80.0	--	765	.9	9	7.5	270	16.4
11...	1011	80513	160	90.0	--	765	.8	8	7.5	268	16.0
11...	1012	80513	160	100	--	765	.4	4	7.5	268	15.2
11...	1013	80513	160	110	--	765	.3	3	7.6	265	13.0
11...	1014	80513	160	120	--	765	.1	1	7.7	264	11.5
11...	1015	80513	160	130	--	765	.1	0	7.7	259	10.6
11...	1016	80513	160	140	--	765	.1	0	7.7	258	9.8
11...	1017	80513	160	150	--	765	.1	0	7.7	257	9.4
11...	1018	80513	160	160	--	765	.1	0	7.7	257	9.2
NOV											
08...	1251	80513	163	.000	5.20	765	6.1	65	7.5	273	18.1
08...	1252	80513	163	10.0	--	765	5.9	62	7.5	272	18.3
08...	1253	80513	163	20.0	--	765	5.9	62	7.5	273	18.2
08...	1254	80513	163	30.0	--	765	5.8	62	7.5	273	18.3
08...	1255	80513	163	40.0	--	765	5.8	62	7.5	272	18.3
08...	1256	80513	163	50.0	--	765	5.8	61	7.5	272	18.3
08...	1257	80513	163	60.0	--	765	5.7	61	7.5	272	18.3
08...	1258	80513	163	70.0	--	765	1.6	17	7.4	279	18.1
08...	1259	80513	163	73.0	--	765	.3	3	7.3	281	17.5
08...	1300	80513	163	80.0	--	765	.6	6	7.2	276	16.9
08...	1301	80513	163	90.0	--	765	.3	3	7.2	275	16.1
08...	1302	80513	163	100	--	765	.1	1	7.2	274	15.2
08...	1303	80513	163	110	--	765	.1	1	7.3	272	13.9
08...	1304	80513	163	120	--	765	.1	1	7.3	272	12.7
08...	1305	80513	163	130	--	765	.1	0	7.4	267	10.9
08...	1306	80513	163	140	--	765	.1	0	7.4	264	9.9
08...	1307	80513	163	150	--	765	.1	0	7.4	263	9.5
08...	1308	80513	163	160	--	765	.1	0	7.4	263	9.2
08...	1309	80513	163	163	--	765	.1	0	7.3	266	9.2
MAR											
26...	1428	80513	170	1.00	9.80	765	11.0	96	7.6	263	9.6
26...	1429	80513	170	10.0	--	765	10.7	92	7.7	262	9.0
26...	1430	80513	170	20.0	--	765	10.9	94	7.8	261	8.9
26...	1431	80513	170	30.0	--	765	10.8	93	7.8	261	8.8
26...	1432	80513	170	40.0	--	765	10.5	90	7.9	261	8.7
26...	1433	80513	170	50.0	--	765	10.6	90	7.9	261	8.5
26...	1434	80513	170	60.0	--	765	10.8	91	7.9	261	8.4
26...	1435	80513	170	69.9	--	765	10.7	90	7.9	261	8.3
26...	1436	80513	170	80.0	--	765	10.8	90	7.9	260	7.5
26...	1437	80513	170	90.0	--	765	10.4	85	7.9	258	6.8
26...	1438	80513	170	100	--	765	10.6	86	7.8	258	6.7
26...	1439	80513	170	110	--	765	10.0	81	7.8	259	6.6
26...	1440	80513	170	120	--	765	10	81	7.8	260	6.5
26...	1441	80513	170	130	--	765	10.3	84	7.8	260	6.5
26...	1442	80513	170	140	--	765	10.0	81	7.8	261	6.4
26...	1443	80513	170	150	--	765	10.1	81	7.8	261	6.3
26...	1444	80513	170	160	--	765	9.9	80	7.7	262	6.3
26...	1445	80513	170	170	--	765	9.6	77	7.7	263	6.3

07054500 BULL SHOALS LAKE NEAR FLIPPIN--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JUN											
19...	0802	80513	172	.60	10.1	754	8.8	109	8.0	270	25.8
19...	0804	80513	172	10.1	--	754	9.0	112	8.1	268	25.6
19...	0806	80513	172	20.0	--	754	9.4	114	8.1	267	24.7
19...	0808	80513	172	24.0	--	754	9.8	117	8.1	266	23.6
19...	0809	80513	172	27.0	--	754	10.2	120	8.1	266	22.8
19...	0810	80513	172	30.0	--	754	10.6	121	8.1	267	21.7
19...	0812	80513	172	32.0	--	754	11.0	123	8.1	267	20.5
19...	0813	80513	172	34.1	--	754	11.2	124	8.1	268	19.9
19...	0814	80513	172	36.0	--	754	11.6	126	8.1	266	19.1
19...	0816	80513	172	38.1	--	754	12.2	130	8.1	267	17.9
19...	0817	80513	172	39.9	--	754	12.5	131	8.1	268	17.0
19...	0818	80513	172	42.1	--	754	12.8	131	8.1	267	15.7
19...	0819	80513	172	44.0	--	754	12.9	128	8.2	269	14.5
19...	0820	80513	172	45.9	--	754	12.5	122	8.1	269	13.7
19...	0821	80513	172	48.1	--	754	12.6	120	8.2	269	12.7
19...	0822	80513	172	50.0	--	754	12.0	112	8.1	269	11.7
19...	0823	80513	172	53.0	--	754	11.4	104	8.0	269	11.0
19...	0824	80513	172	57.1	--	754	10.7	96	7.9	271	10
19...	0825	80513	172	60.2	--	754	10.2	91	7.8	268	9.6
19...	0826	80513	172	66.1	--	754	10.2	89	7.7	269	8.9
19...	0827	80513	172	70.0	--	754	10	86	7.7	266	8.6
19...	0828	80513	172	80.3	--	754	9.6	82	7.6	267	7.8
19...	0830	80513	172	90.0	--	754	9.4	79	7.5	266	7.3
19...	0832	80513	172	100	--	754	9.4	79	7.5	263	7.1
19...	0833	80513	172	110	--	754	9.3	78	7.4	264	6.9
19...	0834	80513	172	120	--	754	9.3	77	7.4	263	6.7
19...	0835	80513	172	130	--	754	9.2	76	7.4	263	6.6
19...	0837	80513	172	140	--	754	8.8	72	7.3	263	6.5
19...	0838	80513	172	150	--	754	8.7	72	7.3	263	6.5
19...	0839	80513	172	160	--	754	8.6	71	7.3	264	6.4
19...	0841	80513	172	170	--	754	8.0	66	7.2	264	6.4
19...	0842	80513	172	172	--	754	7.9	65	7.2	264	6.4
JUL											
17...	1148	80513	166	.30	9.80	751	8.1	105	8.2	258	28.3
17...	1149	80513	166	10.0	--	751	8.1	106	8.2	258	28.1
17...	1150	80513	166	20.0	--	751	10	127	8.2	256	26.9
17...	1151	80513	166	21.1	--	751	10.5	132	8.2	255	26.2
17...	1152	80513	166	22.0	--	751	10.8	134	8.2	256	25.6
17...	1153	80513	166	24.1	--	751	11.2	137	8.2	254	24.4
17...	1154	80513	166	26.0	--	751	11.5	137	8.2	254	23.4
17...	1155	80513	166	28.0	--	751	11.5	136	8.2	254	22.9
17...	1156	80513	166	30.0	--	751	11.6	135	8.2	254	22.2
17...	1157	80513	166	32.0	--	751	11.8	136	8.2	255	21.6
17...	1158	80513	166	35.0	--	751	12.0	135	8.2	255	20.6
17...	1159	80513	166	38.0	--	751	12.1	134	8.2	256	19.5
17...	1200	80513	166	40.0	--	751	12.2	133	8.2	257	18.8
17...	1201	80513	166	43.0	--	751	12.1	129	8.2	257	17.6
17...	1202	80513	166	44.8	--	751	12.1	127	8.2	259	16.8
17...	1203	80513	166	50.0	--	751	11.8	118	8.2	258	14.7
17...	1204	80513	166	53.1	--	751	10.9	106	8.1	260	13.4
17...	1205	80513	166	56.2	--	751	10.5	100	8.0	260	12.2
17...	1206	80513	166	60.1	--	751	9.7	90	7.8	260	11.3
17...	1207	80513	166	64.9	--	751	9.2	82	7.8	260	9.9
17...	1208	80513	166	70.1	--	751	8.9	79	7.7	259	9.3
17...	1209	80513	166	75.0	--	751	8.9	77	7.7	258	8.8
17...	1210	80513	166	80.1	--	751	8.7	75	7.6	258	8.3
17...	1211	80513	166	90.0	--	751	8.4	71	7.5	257	7.8
17...	1212	80513	166	100	--	751	8.3	70	7.5	255	7.5
17...	1213	80513	166	110	--	751	8.3	70	7.4	255	7.2
17...	1214	80513	166	120	--	751	8.1	68	7.4	255	6.9
17...	1215	80513	166	130	--	751	8.1	67	7.3	254	6.9
17...	1216	80513	166	140	--	751	8.0	66	7.3	255	6.7
17...	1217	80513	166	150	--	751	7.6	63	7.2	254	6.6
17...	1218	80513	166	160	--	751	7.0	58	7.2	254	6.5
17...	1219	80513	166	166	--	751	6.6	54	7.1	255	6.5

07054500 BULL SHOALS LAKE NEAR FLIPPIN--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
AUG											
15...	0811	80513	170	.000	9.10	755	8.3	109	7.7	260	29.2
15...	0812	80513	170	10.0	--	775	8.2	106	7.8	260	29.4
15...	0813	80513	170	20.0	--	775	8.2	106	7.8	260	29.5
15...	0814	80513	170	24.0	--	775	11.9	150	7.8	256	28.0
15...	0815	80513	170	25.0	--	775	12.6	154	7.9	255	26.6
15...	0816	80513	170	26.0	--	775	12.7	154	7.9	255	25.9
15...	0817	80513	170	27.0	--	775	12.9	154	7.9	254	25.1
15...	0818	80513	170	28.0	--	775	13.0	153	7.9	253	24.4
15...	0819	80513	170	30.1	--	775	12.9	149	8.0	255	23.1
15...	0820	80513	170	30.9	--	775	13.0	148	8.0	255	22.7
15...	0821	80513	170	32.0	--	775	12.9	145	8.0	257	21.9
15...	0822	80513	170	33.0	--	775	12.9	143	8.0	257	21.1
15...	0823	80513	170	35.0	--	775	12.8	139	8.0	258	20.1
15...	0824	80513	170	37.1	--	775	12.8	137	7.5	259	19.3
15...	0825	80513	170	39.9	--	775	12.3	130	7.2	260	18.5
15...	0826	80513	170	45.0	--	775	11.5	117	7.1	265	17.2
15...	0827	80513	170	50.0	--	775	11.1	112	7.0	264	16.4
15...	0828	80513	170	55.0	--	775	10.4	102	6.9	266	15.2
15...	0829	80513	170	60.0	--	775	10	96	6.8	266	14.3
15...	0830	80513	170	64.9	--	775	9.3	87	6.7	267	13.1
15...	0831	80513	170	70.1	--	775	8.8	80	6.7	266	12.1
15...	0832	80513	170	80.0	--	775	7.8	68	6.5	267	10.3
15...	0833	80513	170	90.0	--	775	7.4	63	6.5	265	9.2
15...	0834	80513	170	100	--	775	7.1	60	6.4	264	8.6
15...	0835	80513	170	110	--	775	7.0	58	6.4	264	8.0
15...	0836	80513	170	120	--	775	7.0	57	6.3	262	7.5
15...	0837	80513	170	130	--	775	6.7	55	6.2	260	7.5
15...	0838	80513	170	140	--	775	6.5	53	6.2	261	7.0
15...	0839	80513	170	150	--	775	6.3	51	6.1	262	7.0
15...	0840	80513	170	160	--	775	5.8	47	6.0	261	6.8
15...	0841	80513	170	170	--	775	5.1	41	5.9	261	6.8
SEP											
25...	1515	80513	167	.80	7.00	774	8.9	105	8.3	275	24.4
25...	1516	80513	167	9.90	--	774	9.0	106	8.4	275	24.3
25...	1517	80513	167	20.1	--	774	8.9	105	8.4	275	24.1
25...	1518	80513	167	30.0	--	774	8.8	104	8.4	275	24.1
25...	1519	80513	167	39.9	--	774	8.7	102	8.2	275	24.0
25...	1520	80513	167	44.9	--	774	8.7	101	8.3	275	23.2
25...	1521	80513	167	45.9	--	774	9.8	111	8.3	279	22.4
25...	1522	80513	167	46.9	--	774	10.8	118	8.2	288	20.1
25...	1523	80513	167	47.9	--	774	11.0	119	8.0	288	19.6
25...	1524	80513	167	50.1	--	774	10.5	112	8.2	289	19.2
25...	1525	80513	167	52.1	--	774	9.9	105	8.1	292	18.7
25...	1526	80513	167	53.9	--	774	9.2	96	8.0	293	18.2
25...	1527	80513	167	56.9	--	774	6.7	68	7.8	298	17.1
25...	1528	80513	167	60.2	--	774	4.3	43	7.7	302	16.3
25...	1529	80513	167	65.0	--	774	3.8	37	7.5	302	15.2
25...	1530	80513	167	70.0	--	774	3.6	35	7.6	302	14.4
25...	1531	80513	167	79.8	--	774	5.6	52	7.7	294	12.6
25...	1532	80513	167	89.9	--	774	5.1	45	7.8	297	10.5
25...	1533	80513	167	100	--	774	4.8	41	7.8	297	9.3
25...	1534	80513	167	110	--	774	4.7	40	7.8	296	8.7
25...	1535	80513	167	120	--	774	4.6	38	7.8	296	8.1
25...	1536	80513	167	130	--	774	4.5	37	7.8	295	7.7
25...	1537	80513	167	140	--	774	4.3	35	7.7	293	7.5
25...	1538	80513	167	150	--	774	4.3	35	7.6	292	7.3
25...	1539	80513	167	160	--	774	4.0	32	7.5	291	7.1
25...	1540	80513	167	167	--	774	2.8	22	7.5	290	7.1

07054501 WHITE RIVER AT BULL SHOALS DAM NEAR FLIPPIN

LOCATION.--Lat 36°21'56", long 92°34'29", in NW1/4 sec.21, T.20 N., R.15 W., Marion County, Hydrologic Unit 11010003, at dam on White River, 11.9 mi upstream from gaging station, 6.3 mi northwest of Flippin, 12.5 mi downstream from Little North Fork, and at mile 418.6.

DRAINAGE AREA.--6,051 mi².

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, May 1991 to current year.

DISSOLVED OXYGEN: May 1991 to current year.

REMARKS.--Dissolved oxygen and water temperature collected continuously June through December.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	SAMPLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)
OCT										
11..	80513	--	--	770	6.8	64	7.2	269	13.3	--
NOV										
08..	80513	1.00	400	765	5.0	46	7.3	278	12.5	20.0
08..	80513	1.00	400	765	4.3	41	7.3	273	13.1	60.0
08..	80513	1.00	400	765	4.5	43	7.3	272	13.1	100
08..	80513	1.00	400	765	4.4	42	7.3	273	13.1	140
08..	80513	1.00	400	765	4.2	40	7.3	273	13.2	180
08..	80513	1.00	400	765	4.1	39	7.3	273	13.2	220
08..	80513	1.00	400	765	3.9	37	7.3	273	13.3	260
08..	80513	1.00	400	765	3.8	36	7.3	273	13.3	300
08..	80513	1.00	400	765	4.2	40	7.4	273	13.3	340
08..	80513	1.00	400	765	3.7	35	7.3	273	13.3	380
08..	80513	1.00	400	765	3.3	31	7.3	273	13.2	--
MAR										
26..	80513	1.00	--	770	11.8	97	7.9	261	7.5	--
JUN										
19..	80513	--	--	760	10.9	92	7.6	271	7.9	--
JUL										
17..	80513	--	--	751	10.4	89	8.3	255	7.9	--
AUG										
15..	80513	--	--	755	9.5	82	6.6	270	8.6	--
SEP										
25..	80513	--	--	774	7.9	68	7.7	296	9.6	--

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.6	11.8	12.8	14.2	12.4	13.0	12.1	11.2	11.5	---	---	---
2	14.4	11.8	13.1	14.5	12.1	13.1	12.7	11.7	12.2	---	---	---
3	14.5	12.0	13.4	13.4	12.3	12.7	12.4	11.1	11.7	---	---	---
4	15.4	12.4	13.6	12.8	12.1	12.5	12.5	10.9	11.5	---	---	---
5	14.5	12.6	13.5	12.8	12.1	12.3	12.1	10.9	11.6	---	---	---
6	14.6	12.6	13.7	14.4	12.1	13.0	11.6	10.5	11.1	---	---	---
7	14.8	12.0	13.1	14.9	12.1	13.1	---	---	---	---	---	---
8	14.4	12.5	13.1	14.7	12.1	13.0	11.8	10.6	11.1	---	---	---
9	14.4	12.6	13.2	15.7	12.1	12.9	11.4	10.4	10.8	---	---	---
10	14.2	11.7	13.0	13.6	11.5	12.5	11.7	11.0	11.2	---	---	---
11	14.1	11.4	12.6	11.9	11.1	11.5	11.4	10.3	11.1	---	---	---
12	14.1	11.6	12.7	12.5	11.4	11.9	11.3	9.9	11.0	---	---	---
13	14.3	11.8	12.7	14.5	11.4	12.4	11.0	8.7	10.4	---	---	---
14	14.5	11.9	13.0	14.9	11.9	13.4	10.8	10.0	10.4	---	---	---
15	14.4	12.2	13.0	14.2	11.8	13.0	10.6	9.9	10.1	---	---	---
16	14.3	12.6	13.1	14.4	11.6	12.5	10.4	7.8	9.7	---	---	---
17	14.5	12.3	13.1	14.5	11.7	13.3	10.1	7.4	9.1	---	---	---
18	13.8	12.0	12.6	13.9	11.6	12.9	9.9	8.6	9.5	---	---	---
19	13.9	11.8	12.5	13.5	11.3	12.0	9.6	9.3	9.5	---	---	---
20	13.6	11.8	12.4	14.4	11.8	13.4	9.3	8.4	9.1	---	---	---
21	13.0	12.2	12.6	---	---	---	9.1	8.3	8.9	---	---	---
22	13.7	12.3	12.7	13.9	12.4	13.2	8.9	7.8	8.6	---	---	---
23	14.1	12.3	12.8	13.1	12.3	12.7	8.7	7.6	8.1	---	---	---
24	14.2	12.0	13.0	12.6	12.2	12.4	8.4	7.1	7.8	---	---	---
25	14.1	12.2	12.9	12.8	11.9	12.5	7.8	7.1	7.4	---	---	---
26	13.9	12.0	12.8	13.5	12.2	12.6	8.0	7.1	7.4	---	---	---
27	14.4	12.4	13.0	13.3	12.0	12.5	7.8	7.4	7.5	---	---	---
28	14.1	12.3	13.0	13.4	11.5	12.2	7.9	7.2	7.5	---	---	---
29	13.3	12.1	12.5	12.5	11.5	11.9	7.5	6.0	6.9	---	---	---
30	14.2	12.4	12.9	12.9	11.7	12.0	7.4	6.0	6.8	---	---	---
31	14.3	12.4	13.2	---	---	---	7.3	6.4	6.8	---	---	---
MONTH	15.4	11.4	13.0	---	---	---	---	---	---	---	---	---

07054501 WHITE RIVER AT BULL SHOALS DAM NEAR FLIPPIN--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.1	6.7	7.1	8.8	7.3	7.8	10.5	7.7	8.6
2	11.6	6.6	8.1	8.1	6.6	7.1	8.0	7.6	7.9	9.8	7.5	8.3
3	7.4	6.3	6.8	10.6	6.7	7.4	9.7	7.2	7.9	11.4	7.4	8.6
4	9.2	6.6	7.0	11.5	6.7	7.7	10.3	7.2	7.9	10.5	7.5	8.5
5	10.8	6.5	7.5	9.4	6.8	7.5	11.1	7.0	7.9	10.3	7.6	8.5
6	11.1	6.6	7.5	7.3	6.8	7.0	8.1	7.1	7.7	10.6	7.7	8.6
7	8.6	6.6	7.2	7.3	6.8	7.0	9.1	7.3	7.9	9.5	8.5	9.0
8	7.8	6.6	6.9	7.7	6.8	7.1	8.4	7.4	8.0	10.1	8.5	9.0
9	7.1	6.7	6.8	10.1	6.9	7.5	8.5	7.5	8.1	9.6	7.6	8.8
10	8.0	6.5	6.8	9.5	6.9	7.5	8.4	7.7	8.1	9.3	7.5	8.4
11	8.0	6.5	6.8	7.4	7.0	7.3	10.3	7.4	8.0	9.1	7.7	8.8
12	11.0	6.5	7.2	11.4	6.9	7.7	9.6	7.3	7.9	9.3	7.5	8.8
13	10.2	6.4	7.0	7.3	6.9	7.1	8.3	7.4	7.8	9.4	8.8	9.1
14	10.2	6.5	7.2	10.2	6.6	7.7	10.9	7.2	8.2	11.1	8.8	9.3
15	11.8	6.5	7.7	7.6	6.7	7.1	11.4	7.1	8.4	10.7	7.6	8.9
16	7.5	6.3	6.8	7.4	6.7	7.1	8.7	7.4	8.1	9.6	7.7	8.6
17	7.6	6.4	6.9	7.5	6.9	7.2	8.5	7.2	8.1	9.4	7.7	8.8
18	10.9	6.4	7.2	7.7	6.9	7.3	11.0	7.3	8.6	9.7	7.9	8.9
19	11.0	6.5	7.7	7.6	7.1	7.3	9.8	7.4	8.3	9.8	8.1	9.0
20	7.1	6.5	6.8	8.8	6.9	7.5	8.3	7.1	7.8	9.5	7.8	8.6
21	9.5	6.6	7.4	11.2	7.0	8.0	8.7	7.9	8.3	9.9	7.7	8.7
22	10.8	6.5	7.5	8.8	6.9	7.4	9.1	8.2	8.6	10.7	7.9	8.9
23	11.1	6.4	7.9	9.0	7.0	7.5	9.2	8.2	8.6	9.8	7.8	8.8
24	10.6	6.5	7.2	8.5	7.1	7.7	9.1	7.7	8.6	9.9	8.0	8.9
25	7.2	6.6	6.9	8.9	7.3	7.7	9.0	7.7	8.4	10.3	7.4	8.7
26	10.5	6.5	7.4	8.2	7.2	7.6	9.1	8.1	8.6	10.1	7.6	8.6
27	10.3	6.5	7.3	10.1	7.2	7.7	11.1	7.7	9.0	9.7	8.2	9.4
28	7.2	6.6	6.9	8.5	7.2	7.5	11.7	7.5	8.9	10.7	9.1	9.4
29	7.3	6.7	6.9	9.9	7.2	7.8	9.0	7.5	8.3	10.9	7.6	8.7
30	10.5	6.8	7.8	8.0	7.1	7.6	10.5	7.5	8.5	10.4	8.2	9.2
31	---	---	---	10.0	7.2	7.8	10.1	7.6	8.5	---	---	---
MONTH	---	---	---	11.5	6.6	7.4	11.7	7.0	8.2	11.4	7.4	8.8

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	4.9	6.3	6.7	3.3	4.6	8.3	6.0	7.2	---	---	---
2	9.8	5.1	6.4	7.8	3.3	5.0	12.4	8.2	10.6	---	---	---
3	9.5	5.1	6.4	6.3	3.4	4.6	12.3	7.6	9.7	---	---	---
4	10.4	5.8	9.2	5.7	3.4	4.2	10.3	7.5	8.7	---	---	---
5	9.9	5.5	8.4	6.2	3.3	4.3	11.6	6.7	9.2	---	---	---
6	11.6	5.2	9.1	6.8	3.7	5.3	11.1	6.6	8.4	---	---	---
7	11.7	5.1	9.2	8.0	3.6	5.5	12.8	7.3	10.0	---	---	---
8	11.3	6.1	9.8	10.0	3.9	6.0	11.8	8.2	9.4	---	---	---
9	11.1	5.3	9.7	8.5	4.5	6.1	9.0	6.6	7.8	---	---	---
10	11.9	5.2	8.1	7.5	4.2	5.4	12.4	6.6	8.9	---	---	---
11	8.9	5.2	6.6	7.7	4.0	5.3	12.7	6.2	8.5	---	---	---
12	8.2	5.4	6.7	6.5	3.9	4.8	13.7	9.8	11.9	---	---	---
13	8.4	5.2	6.4	9.1	4.3	6.0	13.1	10.1	11.2	---	---	---
14	7.8	4.6	6.1	10.3	4.7	6.8	13.6	9.6	10.9	---	---	---
15	7.8	4.9	6.1	11.2	3.9	6.9	12.6	8.6	10.2	---	---	---
16	8.7	4.3	6.0	10.4	4.3	6.5	12.6	8.0	9.9	---	---	---
17	8.4	4.3	5.8	12.1	4.9	7.7	13.1	9.6	11.4	---	---	---
18	10.8	4.2	5.8	11.1	4.4	7.5	13.4	10.2	11.6	---	---	---
19	6.6	4.2	5.2	8.0	3.9	5.6	13.1	11.4	12.0	---	---	---
20	6.9	4.1	5.2	12.1	5.0	8.4	13.9	12.2	13.1	---	---	---
21	6.1	3.7	4.8	11.4	8.1	9.3	14.5	12.5	13.1	---	---	---
22	6.9	3.9	4.9	11.1	6.4	8.5	15.0	12.8	13.6	---	---	---
23	6.9	3.8	5.0	8.1	5.5	6.5	14.5	12.8	13.6	---	---	---
24	6.7	3.8	4.9	8.6	5.5	6.9	15.4	12.8	13.6	---	---	---
25	7.2	3.8	5.1	8.6	6.3	7.4	14.8	13.0	13.6	---	---	---
26	6.6	3.7	4.9	10.7	7.8	8.9	15.1	13.0	13.6	---	---	---
27	7.3	3.7	5.0	9.6	7.4	8.4	14.6	13.0	13.6	---	---	---
28	6.9	3.9	4.9	9.1	5.5	7.5	15.2	13.0	14.0	---	---	---
29	6.2	4.0	4.7	10.9	5.3	8.2	16.0	13.3	14.6	---	---	---
30	8.2	3.7	5.2	10.3	7.0	9.0	15.9	13.8	14.8	---	---	---
31	7.3	3.8	5.3	---	---	---	15.6	13.6	14.3	---	---	---
MONTH	11.9	3.7	6.4	12.1	3.3	6.6	16.0	6.0	11.4	---	---	---

07054501 WHITE RIVER AT BULL SHOALS DAM NEAR FLIPPIN--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	11.5	9.6	10.2	11.8	9.0	10.1	9.9	7.1	8.3
2	12.6	10.3	11.5	12.1	9.5	10.7	11.3	9.6	10.1	9.4	7.1	8.0
3	12.5	10.3	11.3	12.5	9.6	11.0	11.6	8.6	9.8	9.4	7.1	8.2
4	12.6	10.2	11.2	12.6	10.2	11.2	11.0	8.6	9.5	9.7	7.0	7.9
5	13.1	10.3	11.7	11.9	10.2	11.1	11.1	8.5	9.6	10.1	7.0	8.1
6	13.4	10.8	12.1	12.6	10.0	11.3	11.3	8.6	9.6	10.0	7.5	8.4
7	14.4	10.7	12.5	13.1	10.4	11.5	11.7	8.6	9.9	10.8	7.9	9.1
8	13.7	12.0	13.2	12.2	10.8	11.5	11.6	8.3	9.4	10.9	8.3	9.4
9	13.2	11.8	12.6	12.1	10.3	11.2	11.6	8.3	9.7	10.3	7.2	8.8
10	13.3	11.3	12.2	12.1	9.9	11.0	11.1	8.6	9.7	12.8	7.2	8.5
11	13.4	10.6	11.8	12.1	10.3	11.4	10.9	8.5	9.6	10.3	7.7	8.6
12	12.6	10.6	11.5	11.8	9.8	10.7	11.2	8.4	9.8	10.7	7.2	8.7
13	12.9	10.4	11.4	12.3	10.6	11.4	11.0	8.4	9.6	10.6	8.3	9.3
14	12.9	10.4	11.5	12.0	9.8	10.7	11.5	8.4	9.8	11.8	8.1	9.9
15	12.6	10.2	11.3	11.6	9.7	10.5	10.7	8.4	9.6	9.9	7.1	9.0
16	12.4	10.3	11.3	12.3	9.6	10.7	11.3	8.2	9.8	10.5	7.1	8.4
17	13.2	10.4	11.5	12.5	9.6	11.0	10.9	8.2	9.7	11.2	7.0	8.4
18	13.2	10.3	11.5	12.6	10.1	10.9	10.9	8.0	9.4	10.4	5.7	8.4
19	12.7	10.3	11.6	12.8	9.8	10.8	10.5	8.0	9.2	10.2	7.0	8.4
20	12.4	10.4	11.6	12.2	9.6	10.7	10.4	8.0	8.8	10.4	7.0	8.6
21	12.0	10.1	10.9	11.8	9.6	10.7	10.6	8.6	9.1	10.1	7.0	8.3
22	11.8	10.0	10.9	11.4	9.6	10.4	11.0	8.4	9.3	9.6	7.0	8.1
23	12.3	10.0	11.0	12.0	9.4	10.4	10.8	8.4	9.0	10.0	7.1	8.5
24	12.1	10.1	11.0	12.2	9.4	10.4	10.8	7.8	9.2	11.0	7.2	8.7
25	11.7	9.9	10.9	11.4	9.3	10.3	10.1	7.5	8.5	10.9	7.4	8.8
26	11.4	9.8	10.7	12.4	9.2	10.3	10.1	8.1	8.9	10.9	7.0	8.5
27	12.5	9.8	10.8	11.5	9.1	10.0	10.6	7.1	9.0	10.3	7.1	8.6
28	11.8	9.7	10.6	11.8	9.0	10.1	9.4	7.1	8.2	10.9	7.8	9.4
29	12.1	9.6	10.6	11.9	9.0	10.2	9.6	7.1	8.1	12.5	7.0	8.8
30	11.3	9.6	10.9	11.7	8.9	10.1	10.4	7.0	8.3	9.8	7.0	8.7
31	---	---	---	11.6	9.0	9.8	9.9	7.0	8.3	---	---	---
MONTH	---	---	---	13.1	8.9	10.7	11.8	7.0	9.3	12.8	5.7	8.6

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS

LOCATION.--Lat 36°21'44", long 92°23'11", in NW1/4SE1/4 sec.20, T.20 N., R.15 W., Marion County, Hydrologic Unit 11010003, on White River, 11.8 mi upstream from gaging station, 3 mi southeast of Bull Shoals.

DRAINAGE AREA.--6,051 mi².

PERIOD OF RECORD.--May 1994 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1994 to current year.

DISSOLVED OXYGEN: May 1994 to current year.

REMARKS.--Dissolved oxygen and water temperature are collected continuously June through December.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.3	12.5	14.8	17.8	13.3	14.9	13.8	9.6	10.9	---	---	---
2	14.7	12.6	13.9	16.7	13.6	14.6	11.9	9.5	10.4	---	---	---
3	15.5	14.1	14.5	15.2	13.0	13.9	13.2	7.2	10.0	---	---	---
4	18.5	13.5	15.3	13.8	12.5	13.1	12.5	7.4	9.4	---	---	---
5	18.6	13.4	15.4	14.1	12.3	13.0	13.1	7.9	10.6	---	---	---
6	17.6	13.0	15.0	16.5	13.1	14.4	11.2	7.8	9.1	---	---	---
7	16.2	11.3	13.3	14.5	11.1	12.8	13.3	7.8	10.9	---	---	---
8	16.1	10.8	13.1	14.4	11.4	12.6	13.9	8.5	10.6	---	---	---
9	17.1	10.9	13.7	14.3	10.6	11.8	---	---	---	---	---	---
10	18.6	11.2	14.1	15.2	9.7	11.7	---	---	---	---	---	---
11	18.5	10.1	14.0	11.4	9.2	10.0	---	---	---	---	---	---
12	18.4	10.6	13.7	12.0	9.8	10.8	---	---	---	---	---	---
13	18.4	11.5	14.3	14.3	8.1	10.9	---	---	---	---	---	---
14	17.9	12.6	14.6	15.2	8.6	12.5	---	---	---	---	---	---
15	16.7	13.3	14.5	14.8	9.4	12.8	---	---	---	---	---	---
16	17.2	14.1	15.1	15.2	10.3	12.4	---	---	---	---	---	---
17	18.3	13.0	15.0	14.7	8.2	12.4	---	---	---	---	---	---
18	17.5	11.9	13.8	13.5	9.1	12.1	---	---	---	---	---	---
19	18.6	12.0	14.2	14.6	8.6	11.1	---	---	---	---	---	---
20	17.3	11.3	13.8	13.9	8.9	12.5	---	---	---	---	---	---
21	14.5	12.2	13.3	14.8	9.4	13.0	---	---	---	---	---	---
22	16.4	12.9	14.0	14.9	10.5	12.7	---	---	---	---	---	---
23	17.8	13.1	14.6	12.8	11.0	11.9	---	---	---	---	---	---
24	18.4	12.7	14.6	12.0	10.1	11.3	---	---	---	---	---	---
25	17.9	13.0	15.0	11.2	10.1	10.7	---	---	---	---	---	---
26	17.0	12.8	14.4	14.8	9.6	11.3	---	---	---	---	---	---
27	15.6	13.3	14.1	15.1	9.5	11.5	---	---	---	---	---	---
28	18.7	13.9	15.4	15.9	9.6	11.7	---	---	---	---	---	---
29	15.6	12.9	13.9	14.3	9.1	11.0	---	---	---	---	---	---
30	15.4	13.5	14.2	14.3	8.3	10.6	---	---	---	---	---	---
31	18.4	13.9	15.4	---	---	---	---	---	---	---	---	---
MONTH	19.3	10.1	14.4	17.8	8.1	12.2	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	11.3	8.0	9.2	15.1	7.9	9.3	15.3	9.4	11.5
2	17.2	7.5	11.5	11.3	7.4	9.1	8.7	7.9	8.2	13.8	9.9	11.2
3	---	---	---	14.7	7.7	9.9	14.1	8.2	9.5	17.2	9.8	11.7
4	12.2	7.5	9.6	16.9	7.4	10.2	14.5	8.3	9.9	15.0	9.2	10.8
5	16.6	7.4	11.0	14.1	7.4	9.2	15.4	7.9	10.0	14.9	9.3	11.0
6	16.7	7.4	10.3	11.2	7.6	9.2	11.4	8.0	8.8	15.3	9.2	10.8
7	14.6	8.2	10.9	10.4	7.3	8.1	11.5	8.2	9.1	13.3	9.1	9.8
8	12.1	7.4	9.1	9.8	7.4	8.1	10.5	8.3	9.0	14.0	9.5	10.8
9	9.3	7.2	7.9	14.1	7.3	8.6	10.3	8.4	9.1	---	---	---
10	11.2	7.2	8.4	13.3	7.7	10.3	11.6	8.4	9.7	11.8	9.1	10.1
11	11.5	7.0	8.3	9.2	7.4	7.9	13.5	8.9	10.7	12.1	9.1	9.9
12	15.5	7.0	9.9	15.9	7.7	10.4	12.8	8.8	10.3	11.2	8.9	10.1
13	13.9	7.1	9.5	8.2	7.3	7.7	11.3	8.4	9.6	11.6	9.3	10.0
14	14.9	7.2	9.4	15.5	7.6	10.8	16.3	8.4	10.8	16.8	9.4	10.8
15	17.5	7.4	10.4	10.0	8.3	9.1	16.7	8.9	11.6	16.4	9.5	11.6
16	11.3	7.8	9.4	10.0	7.5	8.4	10.8	8.7	9.4	13.4	9.3	10.6
17	11.2	7.0	8.8	10.7	7.5	8.4	10.5	8.7	9.4	11.7	9.2	9.9
18	15.3	7.1	9.3	9.4	7.6	8.1	16.7	8.5	11.5	12.4	9.8	10.6
19	15.5	7.3	10.1	10.6	7.7	8.8	14.7	8.5	9.8	13.4	9.5	11.1
20	9.0	7.2	7.8	13.5	7.6	9.4	10.3	8.4	9.4	14.8	9.6	10.8
21	12.7	7.2	9.9	16.4	7.8	10.5	9.8	8.4	8.9	13.2	9.3	10.5
22	15.4	7.9	10.1	12.4	7.6	9.2	9.8	8.7	9.1	16.4	9.5	11.5
23	16.5	7.7	11.0	12.6	7.7	9.2	9.7	8.7	9.1	15.0	9.5	10.9
24	14.2	7.4	9.0	11.6	7.7	8.9	14.6	8.8	9.6	13.6	9.8	10.9
25	9.5	7.1	7.9	12.3	7.8	8.9	11.1	8.9	9.7	15.9	9.1	10.7
26	15.6	7.4	10.1	10.3	7.7	8.8	10.2	9.1	9.4	15.2	9.8	10.9
27	14.7	7.8	9.9	13.2	7.7	9.3	16.2	9.0	11.7	11.6	9.6	10.2
28	9.7	7.1	8.3	12.4	8.1	9.8	17.0	9.4	12.0	15.3	9.8	10.6
29	10.7	7.3	8.7	16.1	8.1	10.2	12.4	9.2	10.3	14.6	9.4	10.8
30	15.9	7.3	10.5	10.9	7.8	8.9	15.7	9.9	12.2	16.0	9.3	11.4
31	---	---	---	14.1	7.9	9.5	14.4	9.4	10.8	---	---	---
MONTH	---	---	---	16.9	7.3	9.2	17.0	7.9	9.9	---	---	---

07054502 WHITE RIVER BELOW BULL SHOALS DAM AT BULL SHOALS--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	4.7	8.1	12.9	5.3	8.1	15.3	9.0	11.3	---	---	---
2	8.2	4.3	5.6	12.5	5.6	8.1	15.1	9.4	11.5	---	---	---
3	8.5	5.2	6.6	13.9	5.8	8.7	17.0	10.9	13.5	---	---	---
4	15.7	6.2	8.7	12.9	5.7	8.3	15.9	11.5	13.0	---	---	---
5	15.2	6.0	9.6	13.3	5.8	8.4	15.6	9.7	11.5	---	---	---
6	15.4	5.7	9.9	13.1	3.7	8.4	15.0	9.3	12.0	---	---	---
7	15.1	6.4	10.0	12.8	5.6	9.0	14.7	9.1	11.6	---	---	---
8	15.2	6.8	10.4	11.4	6.4	8.6	16.0	9.8	12.3	---	---	---
9	14.9	6.8	10.4	12.9	6.8	9.2	---	---	---	---	---	---
10	16.6	7.2	10.8	14.5	8.0	10.4	---	---	---	---	---	---
11	15.8	5.6	9.7	13.9	8.7	10.6	---	---	---	---	---	---
12	14.9	5.6	9.2	12.4	7.9	9.6	---	---	---	---	---	---
13	14.6	5.4	9.0	14.3	7.9	10.6	---	---	---	---	---	---
14	14.3	5.2	8.3	14.8	7.0	9.9	---	---	---	---	---	---
15	14.6	5.0	8.1	14.4	8.5	10.5	---	---	---	---	---	---
16	13.5	5.0	7.9	13.6	7.3	9.8	---	---	---	---	---	---
17	14.8	4.6	8.2	15.0	7.0	10.2	---	---	---	---	---	---
18	15.7	5.8	8.9	14.1	8.1	10.3	---	---	---	---	---	---
19	15.0	5.6	8.8	14.4	7.1	10.9	---	---	---	---	---	---
20	13.7	5.4	8.6	13.6	7.6	9.8	---	---	---	---	---	---
21	11.9	5.1	7.7	13.4	7.8	10.2	---	---	---	---	---	---
22	13.8	4.8	7.7	13.4	8.4	10.4	---	---	---	---	---	---
23	13.8	4.8	7.8	12.6	8.1	9.9	---	---	---	---	---	---
24	14.0	4.8	7.6	11.6	7.9	9.8	---	---	---	---	---	---
25	13.6	5.1	8.4	13.7	9.3	10.9	---	---	---	---	---	---
26	13.3	5.2	8.0	15.3	9.4	11.9	---	---	---	---	---	---
27	13.1	5.0	7.6	15.7	10.0	12.0	---	---	---	---	---	---
28	13.4	5.3	8.0	15.2	9.2	11.6	---	---	---	---	---	---
29	13.6	5.2	8.0	15.4	8.4	11.2	---	---	---	---	---	---
30	12.4	5.5	7.9	16.0	9.7	12.5	---	---	---	---	---	---
31	13.5	6.0	8.4	---	---	---	---	---	---	---	---	---
MONTH	16.6	4.3	8.5	16.0	3.7	10.0	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	12.1	9.9	11.1	13.9	8.4	10.8	14.0	8.4	10.7
2	14.4	9.2	11.8	12.8	9.4	11.1	11.8	10.6	11.2	14.2	8.4	10.5
3	---	---	---	14.9	9.6	12.0	14.0	9.8	11.0	14.5	8.7	11.1
4	13.3	9.1	11.3	14.6	9.6	12.0	14.1	9.5	11.0	14.2	8.7	10.0
5	14.7	8.9	12.0	12.6	9.3	11.1	14.5	9.4	11.2	14.3	8.0	10.2
6	14.6	10.1	12.5	12.3	9.3	11.1	12.5	10.0	10.8	15.7	9.6	11.2
7	14.4	9.7	12.3	12.1	10.4	11.4	12.6	9.9	10.9	14.8	9.8	11.4
8	14.4	12.3	13.4	12.4	11.1	11.8	11.8	9.7	10.5	14.1	10.5	11.6
9	13.8	12.3	13.0	14.4	10.6	11.8	12.1	9.7	10.5	---	---	---
10	13.5	11.4	12.5	14.6	9.8	11.8	12.1	9.9	10.8	14.4	9.3	10.7
11	13.2	9.7	12.0	12.4	10.8	11.8	14.4	9.4	11.2	14.4	9.6	11.3
12	14.2	9.2	11.7	14.5	9.4	11.4	14.3	9.2	11.1	13.4	10.2	11.3
13	13.3	9.4	11.8	12.7	10.9	11.8	12.4	9.1	10.8	12.0	9.7	10.9
14	13.8	9.6	11.9	13.9	8.8	11.3	14.9	9.2	11.4	17.2	9.7	12.5
15	14.1	9.8	12.0	12.7	9.6	11.1	14.6	9.1	11.7	17.1	10.3	13.0
16	13.2	9.6	11.7	13.2	9.6	11.2	12.1	9.8	10.9	15.3	9.6	11.7
17	13.6	9.9	11.9	12.5	9.6	10.8	11.8	9.7	10.9	13.7	9.8	11.1
18	14.3	10.0	12.2	11.4	10.0	10.5	13.9	8.9	11.1	14.5	9.7	11.3
19	14.2	10.6	12.6	12.5	9.4	10.7	13.5	8.4	10.6	16.6	9.3	11.1
20	13.5	10.8	12.6	13.7	9.3	10.6	11.6	8.6	10.1	17.1	9.6	12.0
21	14.0	10.2	12.0	14.1	8.2	10.8	11.3	9.6	10.2	17.9	9.4	11.4
22	14.4	10.2	12.2	13.1	9.0	10.3	11.4	9.9	10.4	17.0	9.1	11.6
23	14.5	10.0	12.2	12.7	8.9	10.4	11.9	9.5	10.4	16.7	9.2	11.2
24	14.4	10.5	12.3	12.5	9.5	10.6	13.6	9.3	10.3	18.0	8.4	11.1
25	12.8	10.5	12.0	13.2	9.6	10.7	10.8	9.2	9.9	17.9	8.8	11.5
26	14.5	9.8	12.0	12.5	9.6	10.7	11.9	9.1	10.2	15.2	8.1	10.8
27	14.5	9.9	12.1	14.0	9.3	10.8	14.5	9.0	11.7	11.1	7.5	9.3
28	12.4	9.9	11.3	13.3	9.3	10.8	14.1	8.2	10.8	13.1	8.0	9.6
29	13.2	9.5	11.7	13.4	8.9	10.7	12.2	8.2	9.6	14.4	8.3	10.5
30	13.9	10.6	12.5	12.2	9.2	10.5	14.4	8.2	10.5	15.2	7.7	10.9
31	---	---	---	13.7	9.4	10.6	14.7	8.2	10.3	---	---	---
MONTH	---	---	---	14.9	8.2	11.1	14.9	8.2	10.7	---	---	---

07054527 WHITE RIVER BELOW BULL SHOALS DAM NEAR FAIRVIEW

LOCATION.--Lat 36°20'37", long 92°34'27", in SW1/4SE1/4SE1/4 sec.3, T.19 N., R.3 W., Marion County, Hydrologic Unit 11010003, 2.0 mi downstream from Bull Shoals Dam, and 4.0 mi east of Fairview.

PERIOD OF RECORD.--June 1992 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1992 to current year.

DISSOLVED OXYGEN: June 1992 to current year.

REMARKS.--Dissolved oxygen and water temperature collected continuously June through December.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.6	14.9	17.0	18.4	15.0	16.8	---	---	---	---	---	---
2	17.7	14.5	15.1	18.3	14.8	16.4	12.2	9.9	10.7	---	---	---
3	18.3	14.7	15.4	16.0	14.6	15.3	---	---	---	---	---	---
4	20.1	14.8	16.4	15.2	14.4	14.7	11.3	8.2	9.7	---	---	---
5	19.6	15.2	16.9	14.9	14.0	14.5	12.8	8.6	10.8	---	---	---
6	18.7	14.7	16.4	17.2	14.4	15.2	11.4	9.0	10.0	---	---	---
7	17.2	13.6	14.9	14.8	12.8	13.7	13.2	9.5	11.5	---	---	---
8	17.2	12.4	14.5	14.6	12.6	13.7	13.1	9.6	11.0	---	---	---
9	18.3	12.2	15.0	14.8	11.6	13.1	10.6	8.6	9.8	---	---	---
10	18.8	12.5	15.3	14.9	11.8	13.0	11.7	10.0	10.9	---	---	---
11	19.0	12.6	15.7	12.2	11.0	11.5	11.2	9.7	10.8	---	---	---
12	18.7	13.0	15.5	12.7	11.4	12.1	11.4	9.3	10.8	---	---	---
13	19.1	13.7	15.7	13.5	10.3	11.7	10.8	6.1	9.9	---	---	---
14	18.8	14.7	16.0	15.5	10.2	13.3	10.7	8.7	9.9	---	---	---
15	18.0	14.9	16.0	14.9	11.8	13.7	10.2	8.0	9.0	---	---	---
16	18.0	14.5	16.2	14.5	12.0	13.2	10.2	7.6	9.2	---	---	---
17	19.3	15.3	16.8	15.0	10.0	13.2	10.1	3.5	7.8	---	---	---
18	17.6	14.1	15.8	13.9	11.2	13.0	9.8	7.5	9.1	---	---	---
19	19.1	13.9	16.2	13.7	10.4	12.0	9.6	8.2	9.3	---	---	---
20	17.9	13.6	15.8	14.2	10.2	12.9	9.2	6.8	8.8	---	---	---
21	16.2	14.2	15.1	14.9	11.3	13.6	9.1	6.8	8.6	---	---	---
22	17.4	14.8	15.8	14.5	11.6	13.3	9.1	6.8	8.4	---	---	---
23	19.1	14.9	16.7	12.8	11.8	12.3	8.4	6.1	7.1	---	---	---
24	19.3	14.7	16.5	12.8	11.6	12.3	9.2	5.8	7.4	---	---	---
25	19.0	14.9	16.6	11.8	11.3	11.6	6.1	4.9	5.4	---	---	---
26	18.1	14.8	16.5	13.7	10.5	11.8	7.1	4.9	5.8	---	---	---
27	16.9	14.8	15.7	13.9	10.3	11.9	7.7	6.3	6.7	---	---	---
28	19.8	15.2	17.0	14.3	10.6	12.1	8.5	6.2	7.3	---	---	---
29	17.4	14.9	15.8	---	---	---	7.3	4.6	6.4	---	---	---
30	16.7	14.4	15.6	---	---	---	7.3	3.9	6.1	---	---	---
31	19.3	14.5	16.8	---	---	---	7.2	4.3	6.0	---	---	---
MONTH	20.6	12.2	16.0	---	---	---	---	---	---	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	15.2	8.4	11.3	17.4	8.2	10.1	18.9	10.1	13.2
2	---	---	---	15.2	7.7	10.4	9.2	8.2	8.5	18.5	10.6	13.2
3	---	---	---	17.7	8.1	10.7	17.1	8.4	10.3	20.4	10.3	13.9
4	---	---	---	19.4	8.1	11.6	18.4	8.6	11.1	18.6	9.4	12.5
5	---	---	---	16.0	7.9	10.0	19.5	8.2	11.5	17.7	9.5	11.9
6	---	---	---	12.9	8.0	9.9	14.0	8.3	9.5	17.9	9.4	11.8
7	---	---	---	10.9	7.6	9.2	14.0	8.4	9.9	15.9	9.5	11.0
8	---	---	---	12.3	8.0	9.4	12.3	8.6	9.9	13.5	9.9	11.3
9	---	---	---	16.8	7.6	9.4	12.2	8.6	9.8	17.3	10.7	13.2
10	---	---	---	16.4	7.8	10.8	14.8	8.8	11.0	16.2	9.8	12.2
11	13.4	7.2	8.9	11.3	8.1	8.9	18.4	9.4	12.7	13.8	9.8	11.0
12	18.2	7.2	10.2	19.1	8.0	11.8	17.4	10.1	13.1	12.2	10.0	11.0
13	---	---	---	9.9	7.8	8.7	16.4	8.6	11.0	12.9	10.0	11.1
14	---	---	---	15.9	8.2	12.2	20.0	9.1	12.5	17.8	9.7	11.9
15	---	---	---	14.8	9.8	11.9	20.2	10.0	13.9	18.4	10.0	13.0
16	---	---	---	12.6	7.7	9.8	12.2	9.1	10.4	16.3	10.5	12.5
17	---	---	---	11.4	7.7	9.0	11.9	9.3	10.3	12.8	9.7	10.9
18	---	---	---	11.7	7.8	8.8	17.6	9.9	13.2	14.0	10.0	11.5
19	---	---	---	12.2	7.8	9.6	16.5	9.4	11.8	16.6	10.1	12.1
20	10.3	7.7	8.8	17.1	7.7	10.4	13.8	8.6	10.6	17.4	10.0	12.2
21	15.4	7.7	10.9	20.1	8.2	12.2	10.9	8.7	9.6	15.1	9.8	11.6
22	18.3	9.3	12.6	16.1	7.8	10.1	10.3	8.9	9.5	19.2	10.4	13.2
23	19.5	9.3	13.7	15.4	7.9	10.0	11.1	9.1	9.7	17.8	10.4	12.3
24	17.6	8.6	10.5	14.5	7.9	9.7	14.7	9.2	10.2	16.1	10.0	12.0
25	11.8	7.3	9.0	14.8	8.0	9.7	14.4	9.1	10.4	17.2	9.6	11.6
26	18.5	7.9	11.3	13.6	7.8	9.8	12.3	9.3	10.3	17.4	9.9	12.0
27	16.3	8.4	11.4	16.2	7.9	10.5	18.2	9.8	13.6	12.6	10.0	10.8
28	11.9	7.3	9.4	16.7	9.1	11.4	---	---	---	15.1	10.1	11.4
29	12.0	7.8	9.6	17.6	8.7	12.2	---	---	---	16.2	10.1	12.4
30	16.2	7.7	12.0	14.5	8.1	9.8	16.7	10.5	13.6	18.0	10.0	13.2
31	---	---	---	17.9	8.1	10.3	17.5	9.7	14.3	---	---	---
MONTH	---	---	---	20.1	7.6	10.3	---	---	---	20.4	9.4	12.1

07054527 WHITE RIVER BELOW BULL SHOALS DAM NEAR FAIRVIEW--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.1	4.4	6.6	10.4	5.1	7.3	---	---	---	---	---	---
2	9.0	3.8	5.1	10.4	5.1	7.0	12.8	9.4	10.6	---	---	---
3	9.3	4.0	5.7	10.2	5.6	7.3	---	---	---	---	---	---
4	10.9	4.2	6.9	9.3	5.4	6.9	14.8	10.5	12.1	---	---	---
5	11.7	4.5	7.9	9.4	5.6	7.1	12.9	9.1	10.5	---	---	---
6	10.9	4.7	7.2	10.4	4.3	7.2	13.8	8.5	10.9	---	---	---
7	10.9	5.0	7.7	9.8	5.0	7.2	13.2	8.7	10.5	---	---	---
8	10.7	4.6	7.8	11.7	6.2	8.3	14.2	10.1	11.4	---	---	---
9	11.5	5.0	7.8	14.7	6.8	10.2	14.5	9.7	11.5	---	---	---
10	10.8	5.7	8.7	15.8	8.1	11.6	13.3	8.8	10.3	---	---	---
11	10.7	5.2	7.4	15.7	9.3	11.7	12.2	8.8	9.8	---	---	---
12	10.4	4.2	7.2	13.7	8.7	10.6	13.3	9.5	11.3	---	---	---
13	10.2	4.0	6.7	16.3	9.1	12.0	12.2	9.5	10.8	---	---	---
14	9.9	3.8	6.3	15.5	7.5	10.5	12.2	9.5	11.0	---	---	---
15	9.7	3.7	6.0	14.6	8.6	10.5	13.2	9.6	11.5	---	---	---
16	8.9	3.9	5.7	13.8	8.8	10.6	11.9	8.3	10.2	---	---	---
17	10.1	4.1	6.5	14.9	7.5	10.5	15.4	8.7	11.6	---	---	---
18	9.4	4.2	6.5	13.3	7.8	10.3	14.6	9.3	11.1	---	---	---
19	9.7	4.3	6.5	15.2	8.2	11.7	11.8	10.1	10.8	---	---	---
20	9.4	4.3	6.5	12.7	7.9	9.5	12.5	10.6	11.8	---	---	---
21	7.9	4.1	5.6	13.2	8.4	10.2	12.9	11.4	12.0	---	---	---
22	9.0	3.9	5.8	12.6	8.8	10.3	14.3	11.5	12.4	---	---	---
23	9.3	3.8	6.1	12.9	8.8	10.3	16.1	11.9	13.7	---	---	---
24	10.8	3.9	6.5	10.7	8.2	9.4	15.3	12.0	13.4	---	---	---
25	10.8	4.5	7.3	13.2	9.1	10.4	16.7	13.1	14.5	---	---	---
26	10.7	4.8	7.1	14.8	9.2	11.4	16.2	12.9	13.8	---	---	---
27	10.0	4.6	6.6	14.6	9.4	11.4	15.9	12.3	13.6	---	---	---
28	10.5	4.8	7.0	14.9	9.3	11.3	15.1	12.2	13.2	---	---	---
29	9.9	4.9	6.9	---	---	---	16.7	12.6	14.1	---	---	---
30	9.7	4.6	6.7	---	---	---	16.6	12.8	14.5	---	---	---
31	11.0	4.7	7.3	---	---	---	16.2	12.7	14.0	---	---	---
MONTH	11.7	3.7	6.8	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	11.0	8.2	9.9	12.2	9.0	9.8	12.1	7.5	9.2
2	---	---	---	12.5	8.3	10.4	10.3	9.2	9.6	12.0	6.7	8.8
3	---	---	---	12.6	9.3	10.5	12.4	8.6	9.7	12.4	7.2	9.1
4	---	---	---	12.7	8.0	9.9	12.7	8.1	9.5	11.0	7.1	8.2
5	---	---	---	12.0	8.3	9.4	12.8	7.8	9.6	11.8	7.1	8.4
6	---	---	---	10.6	7.8	9.5	11.6	8.7	9.3	11.5	7.0	8.3
7	---	---	---	10.7	8.6	9.6	11.1	8.4	9.3	10.8	7.0	8.0
8	---	---	---	10.2	9.0	9.6	10.6	8.0	9.0	10.1	7.6	8.5
9	---	---	---	12.4	9.1	9.8	10.0	8.6	9.2	12.2	7.9	9.1
10	---	---	---	12.6	8.6	9.8	11.5	8.4	9.4	11.0	6.9	8.2
11	11.5	9.3	10.3	9.9	8.2	9.3	13.0	8.1	9.9	10.4	6.9	7.7
12	11.7	8.6	10.2	12.6	7.9	9.7	12.6	7.4	9.7	9.6	7.1	7.9
13	---	---	---	10.3	9.1	9.5	12.1	8.6	9.6	9.2	7.1	8.1
14	---	---	---	11.8	8.2	9.8	14.1	8.3	10.5	12.8	7.4	9.2
15	---	---	---	10.7	7.2	8.9	12.3	8.6	10.3	12.9	7.8	9.7
16	---	---	---	10.5	7.6	8.9	9.6	7.8	8.5	11.4	7.6	8.8
17	---	---	---	10.3	8.1	9.1	8.9	7.6	8.4	10.0	6.8	7.9
18	---	---	---	9.9	8.0	8.9	11.0	7.5	9.0	10.6	7.1	8.2
19	---	---	---	10.3	7.5	8.8	10.4	6.8	8.0	12.1	6.7	8.2
20	11.4	9.6	10.6	12.0	7.4	9.0	9.3	6.5	7.5	12.3	7.1	8.6
21	13.2	9.2	10.6	12.7	7.7	9.8	8.7	6.9	7.4	12.3	6.7	8.1
22	13.7	8.5	10.9	11.5	7.8	9.1	8.9	7.5	8.0	12.4	6.4	8.4
23	14.1	9.1	11.4	11.8	7.8	9.1	9.1	7.3	7.8	11.9	6.7	8.2
24	13.4	10.0	11.1	11.3	8.1	9.1	10.8	7.4	8.2	12.4	6.1	8.1
25	11.3	9.9	10.7	11.6	8.3	9.3	10.0	7.6	8.1	12.4	6.0	8.1
26	13.8	9.1	11.0	10.8	8.3	9.2	10.0	7.6	8.3	12.0	5.9	8.3
27	13.0	9.0	10.8	12.4	8.0	9.4	12.8	7.6	9.8	8.4	5.8	7.0
28	11.1	8.7	10.2	12.1	7.8	9.4	---	---	---	10.0	6.6	7.7
29	11.5	8.7	10.2	11.9	7.8	9.6	---	---	---	11.6	6.4	8.7
30	12.9	9.4	11.1	11.3	8.7	9.5	11.8	7.4	9.4	12.6	6.0	8.9
31	---	---	---	12.1	8.3	9.4	12.4	6.8	9.0	---	---	---
MONTH	---	---	---	12.7	7.2	9.5	---	---	---	12.9	5.8	8.4

07055646 BUFFALO RIVER NEAR BOXLEY

LOCATION.--Lat 35°56'43", long 93°59'42", in SW1/4SE1/4 sec.22, T.15 N., R.23 W., Newton County, Hydrologic Unit 11010005, on right bank 1.8 mi upstream from Highway 43 bridge, .8 mi upstream from Smith Creek, 2.6 mi south of Boxley, and at mi 108.9.

DRAINAGE AREA.--57 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1993 to September 1995, October 1998 to current year. Annual maximum water years 1996-98.

REVISED RECORDS.-WRD Ark. 1999: 1993 (M), 1994 (M), 1995 (M).

GAGE.-Water-stage recorder.

REMARKS.--Water-discharge records good except estimated daily discharges June 17 to July 17, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	1.1	47	26	218	232	35	22	46	9.6	12	6.2
2	.07	1.6	40	25	155	181	33	20	39	9.2	10	5.9
3	.04	5.4	34	22	123	144	32	18	33	8.6	9.5	5.7
4	.03	8.9	30	22	103	117	31	17	29	8.1	8.8	5.3
5	.02	9.2	28	22	85	93	30	15	24	8.4	8.3	5.1
6	.12	1090	27	26	75	78	29	15	20	7.8	7.9	4.9
7	.02	216	24	46	67	69	29	30	18	7.5	7.6	4.6
8	.00	90	22	63	61	62	28	35	15	7.3	7.5	5.5
9	.00	156	21	66	349	55	27	26	14	7.1	7.4	6.8
10	.01	91	20	63	302	50	26	21	13	6.9	7.4	14
11	.02	62	20	78	201	46	37	19	12	6.8	7.4	14
12	.06	48	21	130	154	47	94	21	11	6.7	7.3	9.7
13	.08	48	24	156	150	43	75	20	10	7.3	10	7.7
14	.11	41	24	241	593	40	67	17	19	6.8	11	6.5
15	.20	35	22	233	2630	78	104	15	400	9.8	9.7	5.5
16	.30	31	26	168	3120	119	102	13	78	9.6	9.1	4.5
17	.28	28	42	139	1210	99	86	12	45	8.7	8.2	3.9
18	.27	25	40	118	643	89	77	11	33	8.8	7.9	3.6
19	e.28	22	36	105	411	81	72	9.9	26	9.0	7.7	3.8
20	.28	20	32	86	278	75	67	11	21	8.5	7.5	4.4
21	.30	18	30	74	201	69	61	51	20	8.1	7.6	4.2
22	.30	16	27	66	159	63	54	65	22	7.7	7.5	4.1
23	.29	16	26	60	141	59	55	45	18	7.5	7.4	3.9
24	.28	29	24	58	1030	54	53	34	15	7.4	7.4	3.7
25	.28	342	23	55	1110	47	43	29	13	7.5	7.4	9.0
26	.30	206	23	52	565	43	38	24	12	7.7	7.5	7.8
27	.44	120	25	51	416	40	34	21	11	16	7.3	6.7
28	.45	85	26	47	303	38	30	18	11	42	7.2	5.9
29	.45	66	29	925	---	41	27	16	11	24	7.1	5.2
30	.74	55	31	687	---	41	25	25	10	17	6.8	4.7
31	.83	---	28	341	---	38	---	60	---	13	6.5	---
TOTAL	6.94	2982.2	872	4251	14853	2331	1501	755.9	1049	320.4	251.9	182.8
MEAN	.22	99.4	28.1	137	530	75.2	50.0	24.4	35.0	10.3	8.13	6.09
MAX	.83	1090	47	925	3120	232	104	65	400	42	12	14
MIN	.00	1.1	20	22	61	38	25	9.9	10	6.7	6.5	3.6
AC-FT	14	5920	1730	8430	29460	4620	2980	1500	2080	636	500	363
CFSM	.00	1.73	.49	2.39	9.24	1.31	.87	.42	.61	.18	.14	.11
IN.	.00	1.93	.57	2.76	9.63	1.51	.97	.49	.68	.21	.16	.12

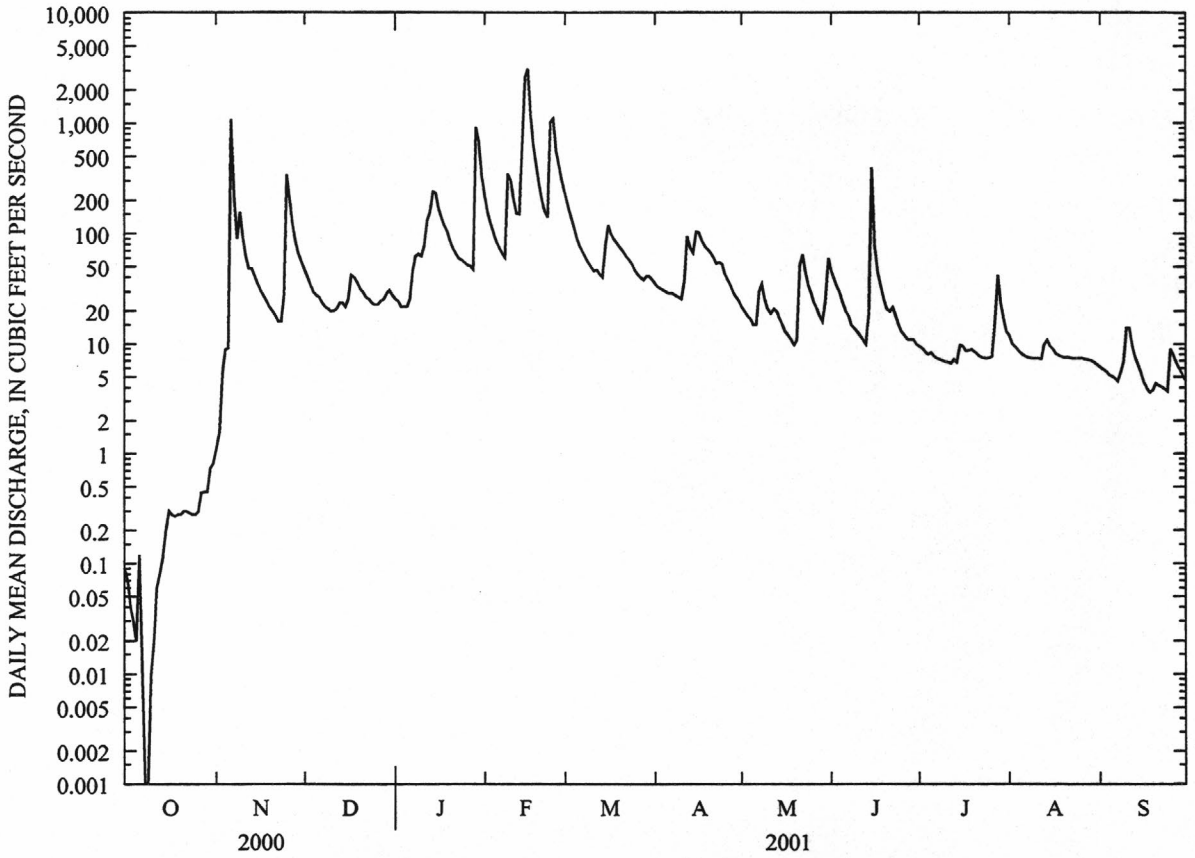
07055646 BUFFALO RIVER NEAR BOXLEY--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993-95, 1999-01, BY WATER YEAR (WY)

MEAN	22.5	132	97.9	115	171	140	185	157	84.3	14.4	4.27	4.40
MAX	93.3	360	186	188	530	199	355	284	318	46.8	12.4	13.3
(WY)	1999	1995	1999	1995	2001	1994	1999	2000	2000	1999	1994	1993
MIN	.096	1.71	23.1	30.2	23.8	75.2	50.0	24.4	4.27	3.05	.57	.027
(WY)	2000	2000	1996	2000	1996	2001	2001	2001	1994	1993	1993	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993-95, 1999-01	
ANNUAL TOTAL	30014.82		29357.14			
ANNUAL MEAN	82.0		80.4		103	
HIGHEST ANNUAL MEAN					133	1999
LOWEST ANNUAL MEAN					80.4	2001
HIGHEST DAILY MEAN	5260	May 27	3120	Feb 16	5260	May 27 2000
LOWEST DAILY MEAN	.00	Sep 4	.00	Oct 8	.00	Sep 4 2000
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 4	.03	Oct 5	.00	Sep 4 2000
MAXIMUM PEAK FLOW			[a]4590	Feb 15	[a]29000	Sep 26 1996
MAXIMUM PEAK STAGE			7.85	Feb 15	[b]14.79	Sep 26 1996
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	59530		58230		74430	
ANNUAL RUNOFF (CFSM)	1.43		1.40		1.79	
ANNUAL RUNOFF (INCHES)	19.45		19.03		24.32	
10 PERCENT EXCEEDS	120		146		208	
50 PERCENT EXCEEDS	27		24		24	
90 PERCENT EXCEEDS	.09		3.9		.85	

[a]From rating curve extended above 1400 ft^3/s, on basis of contracted measurement opening of peak flow
[b]From floodmarks
[e]Estimated



07055646 BUFFALO RIVER NEAR BOXLEY--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT 12...	1020	80020	80513	.05	730	6.5	61	7.8	201	11.2
DEC 12...	1115	80020	80513	22	759	12.7	99	7.3	74	4.5
JAN 10...	1000	80020	80513	64	755	13.2	98	7.0	64	2.7
FEB 07...	1315	80020	80513	66	748	11.9	100	7.9	59	6.9
MAR 07...	1045	80020	80513	69	755	12.3	104	7.9	61	7.8
APR 17...	1135	80020	80513	86	760	11.0	104	6.7	58	12.6
MAY 23...	1515	80020	80513	42	742	9.2	103	8.1	77	19.8
JUN 26...	1000	80020	80513	12	752	7.5	85	8.1	112	21.1
JUL 17...	1000	80020	80513	8.8	748	7.5	86	7.5	142	21.4
AUG 16...	1320	80020	80513	8.8	738	7.0	88	7.2	149	25.5
SEP 11...	1145	80020	80513	14	741	8.6	96	8.1	161	19.2

DATE	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT 12...	14	97	34.2	2.93	1.13	.1	1.6	3	86	83
DEC 12...	1	32	10.9	1.12	.52	.1	.9	6	31	30
JAN 10...	--	28	9.51	.964	.48	.1	.9	7	31	31
FEB 07...	0	25	8.49	.872	.49	.1	.9	7	24	25
MAR 07...	0	26	8.77	.899	.60	.1	.8	6	25	24
APR 17...	2	25	8.46	.960	.63	.1	1.0	7	24	23
MAY 23...	1	35	12.1	1.19	.80	.1	1.1	6	34	33
JUN 26...	4	52	17.9	1.71	.94	.1	1.3	5	49	48
JUL 17...	--	65	22.7	2.11	1.03	.1	1.4	4	70	70
AUG 16...	--	70	24.2	2.24	1.16	.1	1.5	4	99	103
SEP 11...	4	74	25.5	2.40	1.21	.1	1.6	4	69	69

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS DISSOLVED (MG/L) (70301)
OCT 12...	102	.0	1.4	<.2	3.6	5.4	.15	.01	108	101
DEC 12...	37	.0	1.6	<.2	3.9	3.1	.06	2.49	42	40
JAN 10...	38	.0	1.6	<.2	3.7	3.3	.05	6.22	36	40
FEB 07...	30	.0	1.3	<.2	4.5	3.0	.05	7.13	40	35
MAR 07...	30	.0	1.3	<.2	4.8	3.1	.05	7.08	38	35
APR 17...	28	.0	1.2	<.2	5.5	3.0	.06	10.4	45	34
MAY 23...	41	.0	1.0	<.2	6.0	2.7	.06	4.65	41	45
JUN 26...	58	.0	1.2	<.2	6.0	2.8	.09	2.07	64	60
JUL 17...	85	.0	1.5	<.2	6.4	3.0	.12	2.07	87	80
AUG 16...	125	.0	1.1	<.2	6.8	3.0	.06	1.02	43	101
SEP 11...	85	.0	1.3	<.2	6.9	4.3	.12	3.36	89	86

07055646 BUFFALO RIVER NEAR BOXLEY--CONTINUED

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED MG/L AS N) (00613)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT										
12...	<.041	<.10	E.06	.057	--	<.006	--	<.006	E.011	E.003
DEC										
12...	<.041	<.10	.09	<.047	--	<.006	--	<.006	<.018	<.004
JAN										
10...	<.041	E.06	<.08	.101	--	<.006	--	<.006	<.018	<.004
FEB										
07...	<.041	<.10	E.06	.114	--	<.006	--	<.006	<.018	E.003
MAR										
07...	<.041	<.10	E.05	.060	--	<.006	--	<.006	<.018	E.003
APR										
17...	<.041	<.10	<.08	<.047	--	<.006	--	<.006	<.018	.005
MAY										
23...	<.040	<.10	<.08	E.025	--	<.006	--	<.006	<.020	E.002
JUN										
26...	<.040	<.10	<.08	E.023	.023	.007	--	<.006	<.020	E.003
JUL										
17...	<.040	<.10	E.08	.057	--	E.003	--	<.006	<.020	<.004
AUG										
16...	<.040	E.05	E.06	E.032	--	<.006	--	<.006	<.020	.004
SEP										
11...	<.040	<.10	.08	.215	--	<.006	.30	<.006	<.020	.005

DATE	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)
OCT										
12...	E5	E1	620	30	76.2	--	--	--	--	--
DEC										
12...	E2	E4	E3	<10	E2.0	<.002	<.004	<.002	<.005	<.007
JAN										
10...	E5	E5	E7	M	<3.2	<.002	<.004	<.002	<.005	<.007
FEB										
07...	E2	E7	<1	<10	<3.2	<.002	<.004	<.002	<.005	<.007
MAR										
07...	E2	E4	E1	M	<3.2	<.002	<.004	<.002	<.005	<.007
APR										
17...	E6	E5	E9	M	E2.0	<.002	<.004	<.002	<.005	<.007
MAY										
23...	E5	E10	29	M	3.3	<.002	<.004	<.002	<.005	<.007
JUN										
26...	E10	24	49	M	17.8	<.002	<.004	<.002	<.005	<.007
JUL										
17...	59	77	59	<10	23.3	<.002	<.004	<.002	<.005	<.007
AUG										
16...	E9	22	E22	10	22.3	<.002	<.004	<.002	<.005	<.007
SEP										
11...	83	E180	340	<10	10	<.002	<.004	<.002	<.005	<.007

DATE	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)
DEC										
12...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
JAN										
10...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
FEB										
07...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
MAR										
07...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
APR										
17...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
MAY										
23...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
JUN										
26...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
JUL										
17...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
AUG										
16...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
SEP										
11...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005

07055646 BUFFALO RIVER NEAR BOXLEY--CONTINUED

DATE	TIME	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
DEC 12...	1115	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
JAN 10...	1000	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
FEB 07...	1315	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
MAR 07...	1045	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
APR 17...	1135	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
MAY 23...	1515	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
JUN 26...	1000	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
JUL 17...	1000	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
AUG 16...	1320	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
SEP 11...	1145	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050

DATE	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
DEC 12...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JAN 10...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
FEB 07...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAR 07...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
APR 17...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAY 23...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JUN 26...	<.006	<.013	<.006	<.004	<.007	<.003	<.007	<.002	<.010	<.006
JUL 17...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
AUG 16...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
SEP 11...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
DEC 12...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JAN 10...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
FEB 07...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAR 07...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
APR 17...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAY 23...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUN 26...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	E.007	<.034	<.017
JUL 17...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
AUG 16...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
SEP 11...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017

07055646 BUFFALO RIVER NEAR BOXLEY--CONTINUED

DATE	TIME	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
12...	1020	--	--	--	97	24	.00
DEC							
12...	1115	<.005	<.002	<.009	100	6	.36
JAN							
10...	1000	<.005	<.002	<.009	100	6	1.0
FEB							
07...	1315	<.005	<.002	<.009	100	6	1.1
MAR							
07...	1045	<.005	<.002	<.009	93	6	1.1
APR							
17...	1135	<.005	<.002	<.009	100	6	1.4
MAY							
23...	1515	<.005	<.002	<.009	87	9	1.0
JUN							
26...	1000	<.005	<.002	<.009	86	11	.36
JUL							
17...	1000	<.005	<.002	<.009	93	9	.21
AUG							
16...	1320	<.005	<.002	<.009	95	14	.33
SEP							
11...	1145	<.005	<.002	<.009	90	10	.38

Remark codes used in this report:
< -- Less than
E -- Estimated value
Null value remark codes used in this report:
M -- Presence verified, not quantified

07055875 RICHLAND CREEK NEAR WITTS SPRING

LOCATION.--Lat 35°47'49", long 92°55'43", in SE1/4SW1/4SW1/4 sec.5, T.13 N., R.18 W., Searcy County, Hydrologic Unit 11010005, 50 ft upstream from bridge on county road, 1,800 ft downstream from Falling Water Creek and 3.9 mi northwest of Witts Spring.

DRAINAGE AREA.--67.4 mi^2.

PERIOD OF RECORD.--May 1995 to current year.

REVISIONS.--WRD Ark.1999: 1996(M), 1997(M).

GAGE.--Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	5.2	55	21	201	218	72	35	62	2.4	5.5	.97
2	.00	5.3	47	20	154	189	71	32	52	3.2	4.6	.97
3	.00	5.1	41	19	126	165	70	29	41	6.4	3.8	.93
4	.00	6.6	37	19	107	158	66	26	34	2.9	3.4	.78
5	.00	9.6	34	21	93	126	62	25	27	2.3	3.2	.67
6	.00	656	31	27	84	110	60	23	23	2.3	3.0	.59
7	.00	187	29	40	76	101	58	60	20	2.2	2.6	.54
8	.00	91	27	66	70	94	55	54	18	2.0	2.5	.67
9	.00	89	25	71	151	86	52	44	15	1.8	2.6	75
10	.00	69	24	67	177	79	49	36	13	1.6	2.3	21
11	.00	54	25	86	147	74	82	31	11	1.5	4.2	9.0
12	.00	48	23	125	129	77	128	28	9.2	1.4	5.7	5.6
13	.00	71	29	151	287	69	107	24	7.9	1.5	3.8	4.2
14	.00	65	25	230	818	65	98	21	7.0	2.7	2.8	3.5
15	.00	54	25	206	2100	101	128	18	17	2.3	2.3	3.0
16	.00	46	34	156	3490	114	115	16	10	1.8	1.9	2.7
17	.00	39	42	143	928	104	103	14	8.1	1.6	1.6	2.5
18	.00	33	42	125	498	98	94	12	6.5	1.4	1.5	2.6
19	.00	29	38	114	346	93	88	11	5.4	1.3	1.2	2.7
20	.00	25	35	98	258	87	82	12	4.5	1.2	1.1	2.6
21	.00	22	32	88	200	80	74	46	4.7	1.4	1.0	2.3
22	.00	20	29	80	165	74	65	51	5.4	1.4	1.0	2.1
23	.00	21	27	74	136	68	77	38	4.1	1.2	.95	2.0
24	.00	158	26	70	408	63	80	30	3.4	1.3	.88	2.0
25	.00	512	25	64	572	56	67	24	3.0	2.7	.79	1.8
26	.00	226	27	61	354	52	61	20	2.6	6.3	.73	1.7
27	.00	136	26	57	307	49	55	18	2.4	5.5	.73	1.6
28	.00	98	26	54	257	49	50	15	2.3	5.3	.68	1.5
29	.00	78	25	596	---	65	44	14	2.2	5.7	.69	1.3
30	.15	63	24	478	---	80	39	43	2.9	9.3	.68	1.5
31	7.7	---	23	284	---	75	---	85	---	7.0	.74	---
TOTAL	7.85	2921.8	958	3711	12639	2919	2252	935	424.6	90.9	68.47	158.32
MEAN	.25	97.4	30.9	120	451	94.2	75.1	30.2	14.2	2.93	2.21	5.28
MAX	7.7	656	55	596	3490	218	128	85	62	9.3	5.7	75
MIN	.00	5.1	23	19	70	49	39	11	2.2	1.2	.68	.54
AC-FT	16	5800	1900	7360	25070	5790	4470	1850	842	180	136	314
CFSM	.00	1.45	.46	1.79	6.74	1.41	1.12	.45	.21	.04	.03	.08
IN.	.00	1.62	.53	2.06	7.02	1.62	1.25	.52	.24	.05	.04	.09

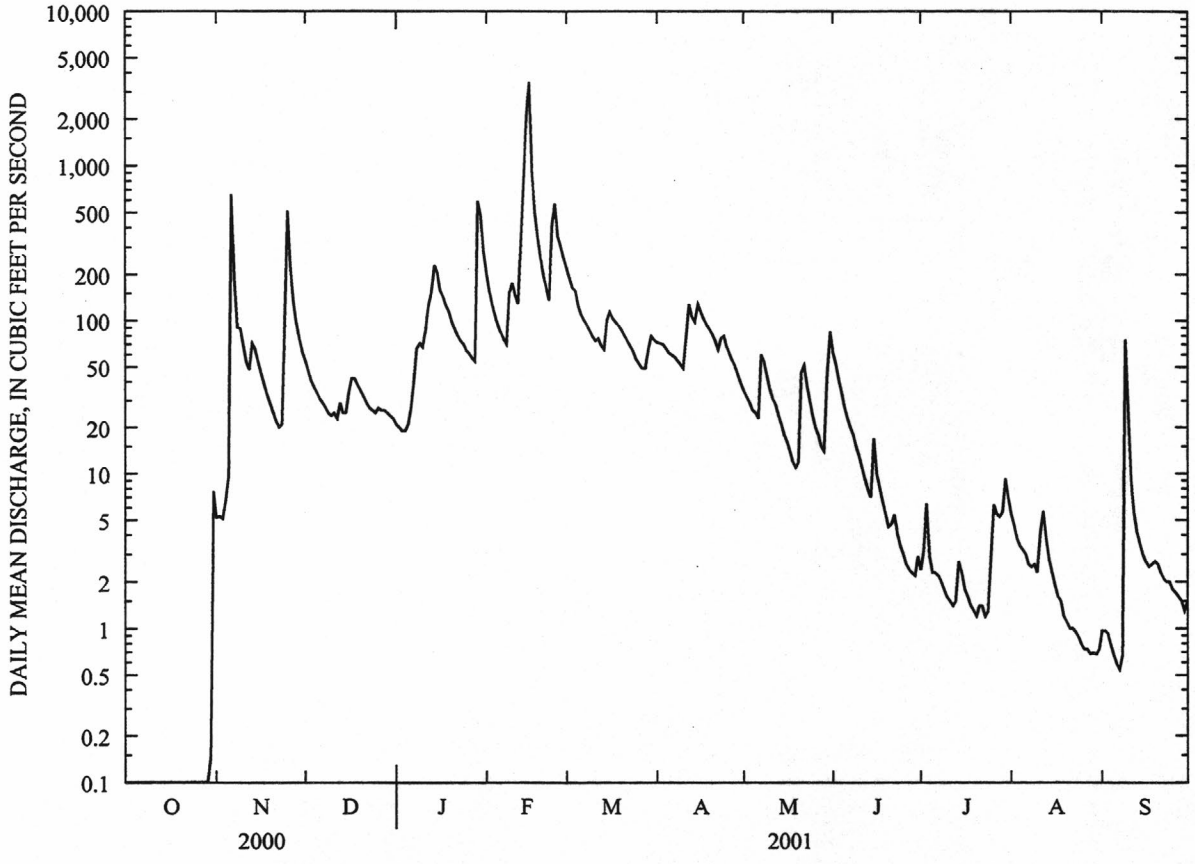
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	22.8	141	100	141	222	195	172	86.8	83.2	8.82	.75	21.1
MAX	64.5	658	158	313	451	415	272	236	403	32.7	2.21	139
(WY)	1999	1997	1997	1998	2001	1998	1997	2000	2000	1999	2001	1996
MIN	.000	1.20	30.9	25.1	37.8	88.5	68.6	27.8	6.35	.26	.11	.000
(WY)	2000	2000	2001	2000	1996	2000	2000	1997	1998	1998	1998	2000

07055875 RICHLAND CREEK NEAR WITTS SPRING--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	31942.27		27085.94			
ANNUAL MEAN	87.3		74.2		99.0	
HIGHEST ANNUAL MEAN					154	1997
LOWEST ANNUAL MEAN					74.2	2001
HIGHEST DAILY MEAN	3730	Jun 17	3490	Feb 16	4970	Nov 7 1996
LOWEST DAILY MEAN	.00	Aug 23	.00	Oct 1	.00	Aug 22 1995
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 23	.00	Oct 1	.00	Aug 22 1995
MAXIMUM PEAK FLOW			[a]5220	Feb 16	[a]12900	Nov 7 1996
MAXIMUM PEAK STAGE			7.50	Feb 16	10.99	Nov 7 1996
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	63360		53720		71690	
ANNUAL RUNOFF (CFSM)	1.30		1.11		1.48	
ANNUAL RUNOFF (INCHES)	17.74		15.04		20.07	
10 PERCENT EXCEEDS	140		145		210	
50 PERCENT EXCEEDS	26		25		25	
90 PERCENT EXCEEDS	.00		.69		.13	

[a]From rating curve extended above 2,300 ft^3/s on basis of slope-area measurement of peak flow



07055893 CALF CREEK NEAR SILVER HILL

LOCATION.--Lat 35°58'04", long 92°46'32", in SW1/4SE1/4 sec.3, T.15 N., R.17 W., Searcy County, Hydrologic Unit 11010005, 400 ft upstream from ford on county road, 1.4 mi upstream from Buffalo River, and 1.7 mi west of Silver Hill.

DRAINAGE AREA.--Undetermined

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 2001 to September 2001. Occasional low-flow measurements 1969.

GAGE.--Water-stage recorder.

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

EXTREMES.--Maximum discharge during period January to September, 2200 ft^3/s Feb. 16, gage height 7.07 ft, from rating curve extended above 200 ft^3/s on basis of slope-area measurement of peak flow; minimum 1.5 ft^3/s Aug. 26, 28-30.

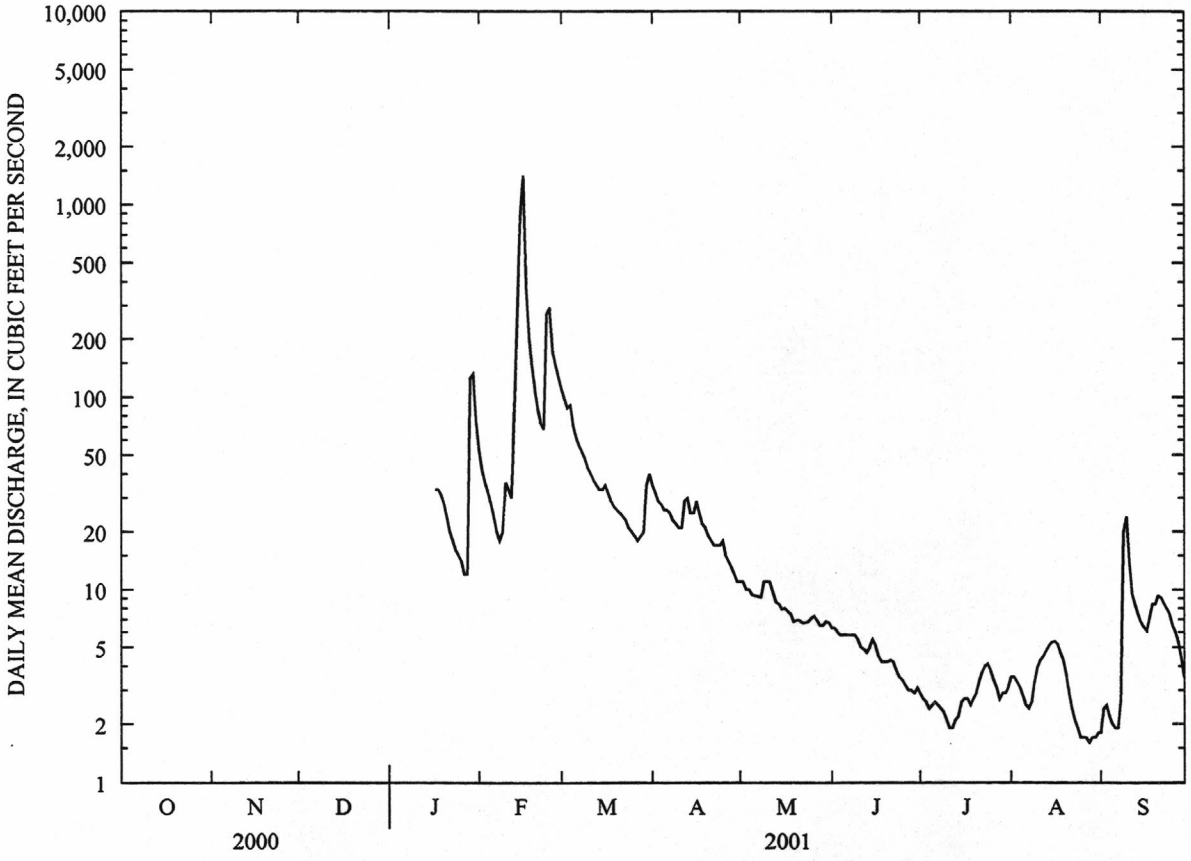
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	53	110	35	11	6.3	2.9	3.5	1.8
2	---	---	---	---	42	98	32	11	6.3	2.7	3.5	2.4
3	---	---	---	---	36	88	29	10	6.0	2.6	3.3	2.5
4	---	---	---	---	32	91	28	10	5.8	2.4	3.1	2.2
5	---	---	---	---	28	71	26	9.4	5.8	2.5	2.8	2.0
6	---	---	---	---	24	62	26	9.3	5.8	2.6	2.5	1.9
7	---	---	---	---	20	56	25	9.2	5.8	2.5	2.4	1.9
8	---	---	---	---	18	52	23	9.1	5.8	2.4	2.6	2.7
9	---	---	---	---	20	48	22	11	5.8	2.3	3.3	20
10	---	---	---	---	36	43	21	11	5.5	2.1	3.9	24
11	---	---	---	---	33	40	21	11	5.0	1.9	4.3	14
12	---	---	---	---	30	37	29	9.7	4.9	1.9	4.5	9.6
13	---	---	---	---	70	35	30	8.6	4.7	2.1	4.8	8.4
14	---	---	---	---	243	33	25	8.4	5.0	2.2	5.1	7.5
15	---	---	---	---	880	33	25	7.9	5.5	2.6	5.3	6.8
16	---	---	---	---	1420	35	29	8.0	5.1	2.7	5.4	6.4
17	---	---	---	33	374	32	25	7.7	4.5	2.7	5.2	6.1
18	---	---	---	33	205	29	22	7.5	4.2	2.5	4.7	7.2
19	---	---	---	31	144	27	21	6.8	4.2	2.7	4.3	8.4
20	---	---	---	28	109	26	19	6.9	4.2	2.9	3.6	8.4
21	---	---	---	24	86	25	18	6.9	4.3	3.3	2.9	9.3
22	---	---	---	20	73	24	17	6.7	4.2	3.7	2.4	9.1
23	---	---	---	18	68	23	17	6.7	3.8	4.0	2.1	8.5
24	---	---	---	16	272	21	17	6.8	3.5	4.1	1.9	8.0
25	---	---	---	15	293	20	18	7.1	3.4	3.8	1.7	7.5
26	---	---	---	14	174	19	15	7.3	3.2	3.4	1.7	6.5
27	---	---	---	12	148	18	14	6.9	3.0	3.1	1.7	6.0
28	---	---	---	12	128	19	13	6.5	3.0	2.7	1.6	5.3
29	---	---	---	126	---	20	12	6.5	2.9	2.9	1.7	4.4
30	---	---	---	132	---	35	11	6.8	3.1	2.9	1.7	3.5
31	---	---	---	76	---	40	---	6.7	---	3.1	1.8	---
TOTAL	---	---	---	---	5059	1310	665	258.4	140.6	86.2	99.3	212.3
MEAN	---	---	---	---	181	42.3	22.2	8.34	4.69	2.78	3.20	7.08
MAX	---	---	---	---	1420	110	35	11	6.3	4.1	5.4	24
MIN	---	---	---	---	18	18	11	6.5	2.9	1.9	1.6	1.8
AC-FT	---	---	---	---	10030	2600	1320	513	279	171	197	421

07055893 CALF CREEK NEAR SILVER HILL--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	---	---	---	---	181	42.3	22.2	8.34	4.69	2.78	3.20	7.08
MAX	---	---	---	---	181	42.3	22.2	8.34	4.69	2.78	3.20	7.08
(WY)	---	---	---	---	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	---	---	---	181	42.3	22.2	8.34	4.69	2.78	3.20	7.08
(WY)	---	---	---	---	2001	2001	2001	2001	2001	2001	2001	2001



07055893 CALF CREEK AT SILVER HILL--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
JAN											
29...	1715	80020	80513	304	751	10.6	95	7.9	162	9.9	56
FEB											
14...	0745	80020	80513	193	763	10.3	91	7.2	264	10.1	110
21...	0930	80020	80513	88	764	10.8	96	7.8	236	10.1	95
MAR											
20...	1115	80020	80513	37	762	11.2	99	8.6	256	9.8	107
APR											
25...	0925	80020	80513	19	760	7.4	70	7.8	272	13.0	121
MAY											
09...	1000	80020	80513	8.0	769	10.3	104	8.1	287	16.1	122
JUN											
06...	1405	80020	80513	5.7	750	10.8	125	8.1	285	21.8	100
JUL											
10...	1045	80020	80513	3.0	752	9.0	101	7.8	333	20.4	152

DATE	SOLIDS RESIDUE AT 180 DEG, C DISSOLVED (MG/L) (70300)	NITROGEN AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
JAN										
29...	102	<.041	.36	1.1	1.0	--	--	.641	--	E.004
FEB										
14...	155	<.041	.13	.28	1.4	--	--	1.26	--	<.006
21...	132	<.041	E.07	.10	--	1.36	6.02	1.37	.039	.012
MAR										
20...	128	<.041	<.10	.12	--	--	--	.387	--	<.006
APR										
25...	156	<.041	E.09	.10	--	--	--	.339	--	E.003
MAY										
09...	174	E.027	E.08	E.07	--	--	--	.347	--	E.004
JUN										
06...	10000	E.027	.12	E.07	.33	--	--	.217	--	E.003
JUL										
10...	192	E.029	E.07	.12	--	--	--	.205	--	<.006

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JAN											
29...	.245	.097	.080	.312	7.6	E1900	E2800	7100	97	129	106
FEB											
14...	--	.015	E.012	.037	3.4	780	470	1400	97	40	21
21...	.083	.028	.027	.034	1.0	140	60	52	100	26	6.2
MAR											
20...	--	.017	E.012	.018	.87	E7	<1	E6	97	30	3.0
APR											
25...	--	.023	E.017	.027	.76	68	53	45	100	36	1.8
MAY											
09...	.175	.024	.057	.028	.74	E18	23	39	99	31	.67
JUN											
06...	--	.024	E.013	.030	.95	E13	E12	61	70	57	.88
JUL											
10...	.055	.020	.018	.023	.76	53	56	93	82	68	.55

Remark codes used in this report:
< -- Less than
E -- Estimated value

07056000 BUFFALO RIVER NEAR ST. JOE

LOCATION.--Lat 35°59'00", long 92°44'47", in SW1/4SW1/4 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, 1.2 mi downstream from Mill Creek, 4.0 mi upstream from Bear Creek, 4.5 mi southeast of St. Joe, and at mile 58.3.

DRAINAGE AREA.--829 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft above sea level. Prior to Mar. 1, 1940, nonrecording gage at present site and datum. Prior to Nov. 6, 1990, at site 300 ft downstream at same datum.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	46	515	199	1790	2180	556	263	238	112	99	23
2	45	58	437	192	1350	1890	526	244	340	104	89	22
3	40	56	380	184	1100	1640	504	225	315	98	80	22
4	34	67	334	178	957	1480	489	211	274	85	82	21
5	30	69	296	175	841	1300	471	200	239	92	70	21
6	30	1130	269	176	744	1120	454	190	211	95	61	20
7	26	2690	248	183	671	1010	441	203	187	119	58	20
8	24	1210	227	246	611	932	424	218	169	145	58	23
9	23	848	215	430	592	862	410	246	152	125	51	514
10	23	794	206	498	1230	795	392	279	139	99	52	569
11	23	700	200	507	1260	740	387	245	128	82	54	319
12	23	592	191	696	1060	703	453	218	118	72	49	229
13	22	532	202	1040	1020	674	633	197	106	83	50	181
14	22	512	205	1200	1940	632	616	182	99	69	61	149
15	22	488	209	1410	10700	659	594	169	180	67	77	125
16	26	453	220	1270	23200	921	662	160	1120	62	76	109
17	24	410	271	1060	13700	983	704	150	585	61	66	99
18	24	379	383	951	5970	882	629	140	382	61	58	111
19	24	354	392	859	3870	814	582	132	275	60	51	206
20	25	326	354	780	2880	768	551	132	217	62	46	239
21	25	300	317	686	2290	723	529	156	195	54	42	184
22	25	280	284	610	1920	682	496	173	175	52	39	150
23	25	270	256	553	1640	647	468	259	157	51	36	145
24	25	313	234	509	2050	613	471	300	143	49	34	178
25	24	2940	220	475	8210	571	468	260	128	46	32	182
26	24	2550	218	447	4540	531	422	219	116	55	30	152
27	23	1460	217	420	3140	496	379	192	108	96	30	124
28	24	1010	211	399	2620	477	345	174	117	104	28	106
29	24	780	206	691	---	489	315	160	130	97	26	96
30	41	621	204	4350	---	545	287	166	122	100	25	86
31	40	---	202	2640	---	581	---	178	---	115	24	---
TOTAL	858	22238	8323	24014	101896	27340	14658	6241	6865	2572	1634	4425
MEAN	27.7	741	268	775	3639	882	489	201	229	83.0	52.7	148
MAX	48	2940	515	4350	23200	2180	704	300	1120	145	99	569
MIN	22	46	191	175	592	477	287	132	99	46	24	20
AC-FT	1700	44110	16510	47630	202100	54230	29070	12380	13620	5100	3240	8780
CFSM	.03	.89	.32	.93	4.39	1.06	.59	.24	.28	.10	.06	.18
IN.	.04	1.00	.37	1.08	4.57	1.23	.66	.28	.31	.12	.07	.20

07056000 BUFFALO RIVER NEAR ST. JOE--CONTINUED

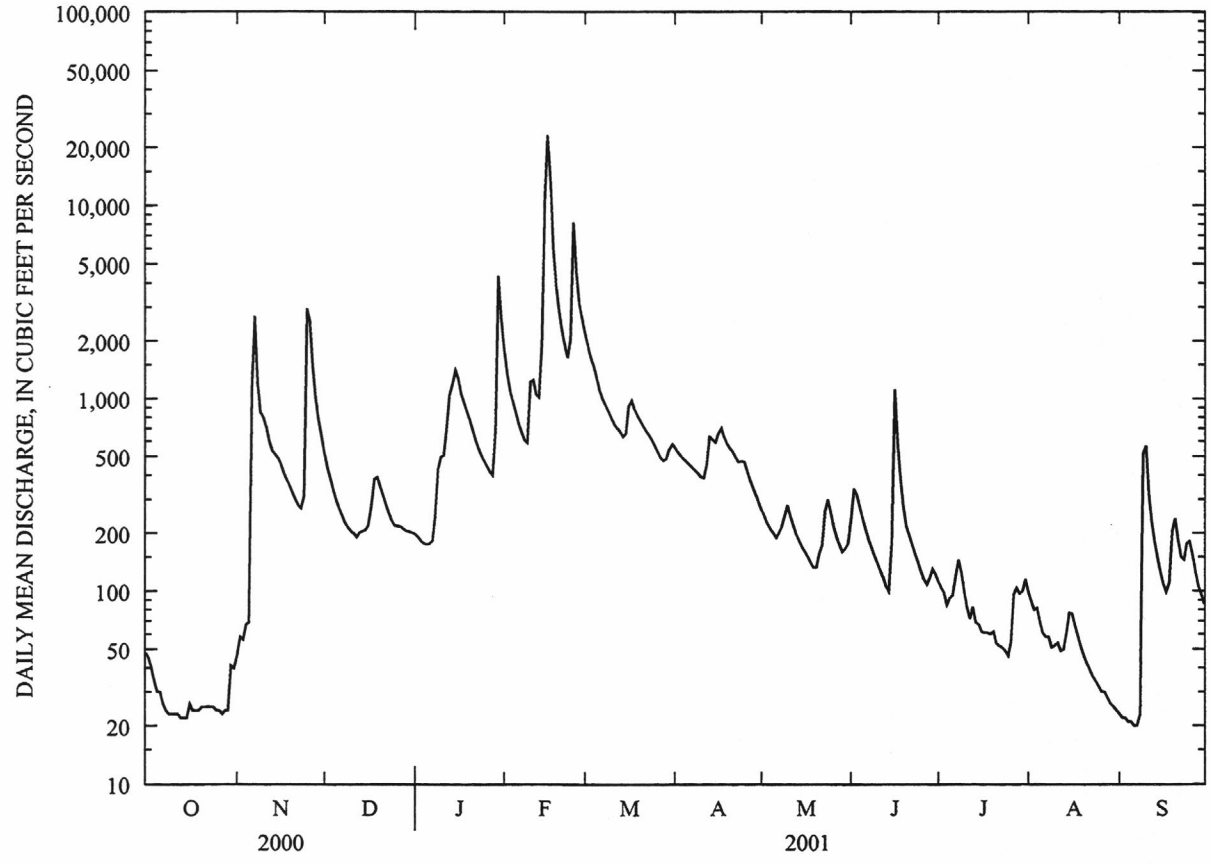
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	309	1005	1191	1165	1604	1959	2139	1837	801	235	163	173
MAX	3357	6549	8516	6934	5455	8897	9584	6975	5468	1134	1569	2025
(WY)	1942	1997	1983	1949	1989	1945	1945	1990	1945	1950	1950	1996
MIN	14.2	19.7	30.4	32.4	114	236	237	201	67.6	29.6	15.0	10.2
(WY)	1964	1964	1990	1964	1963	1972	1963	2001	1977	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	263353		221064			
ANNUAL MEAN	720		606		1044	
HIGHEST ANNUAL MEAN					2619	1945
LOWEST ANNUAL MEAN					316	1963
HIGHEST DAILY MEAN	28700	Jun 18	23200	Feb 16	124000	Dec 3 1982
LOWEST DAILY MEAN	19	Sep 11	20	Sep 6	7.0	Sep 17 1954
ANNUAL SEVEN-DAY MINIMUM	20	Sep 6	21	Sep 1	7.4	Sep 11 1954
INSTANTANEOUS PEAK FLOW			29100	Feb 16	[a]158000	Dec 3 1982
INSTANTANEOUS PEAK STAGE			23.10	Feb 16	53.75	Dec 3 1982
INSTANTANEOUS LOW FLOW			19	Sep 7,8	6.6	[b]Sep 16 1954
ANNUAL RUNOFF (AC-FT)	522400		438500		756600	
ANNUAL RUNOFF (CFSM)	.87		.73		1.26	
ANNUAL RUNOFF (INCHES)	11.82		9.92		17.12	
10 PERCENT EXCEEDS	1130		1120		2310	
50 PERCENT EXCEEDS	320		218		315	
90 PERCENT EXCEEDS	24		30		44	

[a]From rating curve extended above 91,000 ft^3/s

[b]Also Sept. 17, 20, 1954



07056000 BUFFALO RIVER NEAR ST. JOE--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
03...	0740	80020	80513	40	755	6.9	78	7.9	251	20.8
NOV										
15...	1220	80020	80513	492	748	15.5	140	8.2	215	10.1
DEC										
19...	0940	80020	80513	403	758	8.9	65	8.0	222	1.9
JAN										
16...	1400	80020	80513	1240	760	9.4	77	8.4	152	6.4
29...	1815	80020	80513	774	750	11.8	99	8.0	183	7.1
FEB										
14...	0645	80020	80513	1590	763	10.6	91	8.0	146	8.7
21...	0815	80020	80513	2240	764	10.6	92	7.6	156	9.4
MAR										
20...	1300	80020	80513	750	763	11.8	107	8.3	172	11.0
APR										
25...	0815	80020	80513	477	760	7.0	71	7.0	176	16.2
MAY										
09...	1100	80020	80513	244	769	8.5	94	8.1	210	20.7
JUN										
07...	0740	80020	80513	176	752	8.2	99	7.5	202	24.0
JUL										
10...	1145	80020	80513	94	754	6.4	84	8.0	219	28.6
AUG										
17...	0710	80020	80513	94	752	5.2	64	7.5	236	24.8
SEP										
06...	0945	80020	80513	21	764	6.6	81	8.1	241	25.8

DATE	ANC WATER UNFLTRD FET FIELD (MG/L AS CACO3 (00410)	SOLIDS RESIDUE AT 180 DEG, C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)
OCT									
03...	117	136	.024	E.07	.11	.03	--	--	--
NOV									
15...	98	121	<.041	<.10	<.08	--	--	--	--
DEC									
19...	102	123	<.041	E.08	<.08	--	--	--	--
JAN									
16...	68	83	<.041	<.10	<.08	--	--	--	--
29...	71	102	<.041	.20	.81	--	.56	--	--
FEB									
14...	64	86	<.041	<.10	.13	--	--	--	--
21...	68	84	<.041	E.06	.12	--	--	.745	3.30
MAR									
20...	74	100	<.041	<.10	.10	--	--	--	--
APR									
25...	79	--	<.041	E.09	.13	--	--	--	--
MAY									
09...	95	130	<.041	E.09	.12	--	--	--	--
JUN									
07...	94	10000	<.040	E.07	E.07	--	--	--	--
JUL									
10...	99	132	<.040	E.09	.14	--	--	--	--
AUG									
17...	145	69	<.040	E.08	.09	--	--	--	--
SEP									
06...	109	144	<.040	.10	.11	--	--	--	--

07056000 BUFFALO RIVER NEAR ST. JOE--CONTINUED

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO DIS-SOLVED (MG/L AS P) (00671)
OCT								
03...	.591	--	<.010	.09	.70	--	E.003	<.010
NOV								
15...	.373	--	<.006	--	--	--	E.003	<.018
DEC								
19...	.331	--	<.006	--	--	--	E.003	<.018
JAN								
16...	.287	--	<.006	--	--	--	E.005	<.018
29...	.366	--	E.003	--	1.2	.110	.042	.036
FEB								
14...	.302	--	<.006	--	.43	--	E.004	<.018
21...	.754	.030	.009	--	.87	--	.006	<.018
MAR								
20...	.150	--	<.006	--	.25	--	<.006	<.018
APR								
25...	E.040	--	<.006	--	--	--	E.003	<.018
MAY								
09...	.096	--	E.003	--	.22	--	E.003	<.018
JUN								
07...	.053	--	<.006	--	--	--	<.006	<.020
JUL								
10...	E.036	--	E.003	--	--	--	<.006	<.020
AUG								
17...	<.050	--	<.006	--	--	--	<.006	<.020
SEP								
06...	E.031	--	<.006	--	--	--	E.003	<.020

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
03...	E.004	.94	E10	E6	E14	92	45	4.9
NOV								
15...	.006	1.3	--	51	70	99	26	35
DEC								
19...	E.003	.74	E17	E11	E8	100	22	24
JAN								
16...	.008	1.3	E6	E4	E17	93	21	70
29...	.284	3.3	1700	2000	7300	98	172	359
FEB								
14...	.019	1.4	240	210	260	89	28	120
21...	.020	.96	120	52	58	83	33	200
MAR								
20...	.005	.97	<1	E2	E2	94	20	40
APR								
25...	.007	.92	78	110	27	96	16	21
MAY								
09...	.008	.97	E4	E10	21	99	19	13
JUN								
07...	.009	1.1	E14	E12	38	95	22	10
JUL								
10...	.008	1.2	E11	E13	21	96	23	5.8
AUG								
17...	.007	1.9	E9	E5	35	96	29	7.4
SEP								
06...	.007	1.4	27	29	E18	100	23	1.3

Remark codes used in this report:
< -- Less than
E -- Estimated value

07056515 BEAR CREEK NEAR SILVER HILL

LOCATION.--Lat 35°57'00", long 92°43'30", in NE1/4NW1/4 sec.18, T.15 N., R.16 W., Searcy County, Hydrologic Unit 11010005, on left bank 400 ft northeast of U.S. Highway 65 80 ft upstream from Holder Creek, and 1.8 mi southeast of Silver Hill.

DRAINAGE AREA.--83.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft above sea level. Prior to Mar. 1, 1940, nonrecording gage at present site and datum. Prior to Nov. 6, 1990, at site 300 ft downstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

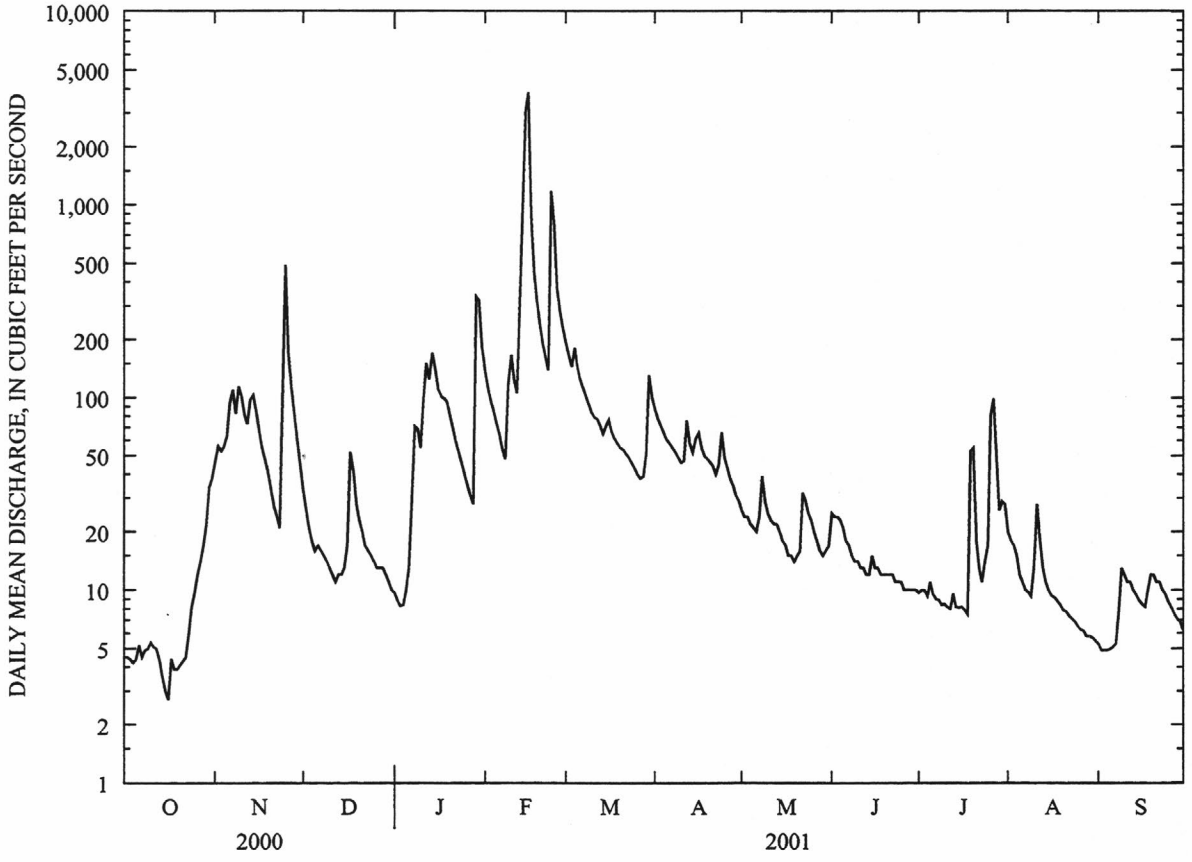
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	46	33	9.7	137	193	88	26	25	9.7	20	5.3
2	4.5	56	26	8.9	112	166	78	24	24	10	18	4.9
3	4.4	53	21	8.3	96	145	72	24	24	9.9	17	4.9
4	4.2	56	18	8.4	85	182	66	22	23	9.3	15	4.9
5	4.4	63	16	9.9	74	145	61	21	21	11	12	5.0
6	5.2	94	17	13	64	125	58	20	18	9.5	11	5.1
7	4.5	110	16	28	54	113	55	24	17	9.0	10	5.3
8	4.9	83	15	71	48	102	52	39	15	8.9	9.8	7.6
9	5.0	114	14	69	117	93	49	29	14	8.4	9.3	13
10	5.4	102	13	55	167	84	46	25	14	8.5	13	12
11	5.1	82	12	99	124	79	47	23	13	8.2	28	11
12	5.0	73	11	151	106	78	76	22	13	8.0	18	11
13	4.4	98	12	125	330	72	58	22	12	9.6	13	10
14	3.6	104	12	171	765	65	52	20	12	8.2	11	9.5
15	3.0	85	13	142	3050	71	62	18	15	8.1	10	8.9
16	2.7	67	17	110	3850	77	66	17	13	8.2	9.4	8.5
17	4.4	55	52	102	868	67	55	15	13	7.9	9.2	8.2
18	3.9	48	41	99	453	62	50	15	12	7.5	8.8	10
19	3.9	41	28	95	317	58	48	14	12	53	8.4	12
20	4.1	33	23	82	241	55	46	15	12	55	7.9	12
21	4.3	27	20	70	191	54	44	16	12	18	7.8	11
22	4.5	24	17	59	163	51	40	32	12	13	7.4	11
23	5.9	21	16	52	139	49	45	29	11	11	7.1	10
24	8.2	135	15	46	1180	46	66	25	11	14	6.9	9.5
25	9.7	490	14	40	813	43	49	23	11	17	6.5	8.7
26	12	171	13	35	372	40	43	20	10	81	6.3	8.1
27	14	113	13	31	287	38	38	18	10	99	6.2	7.5
28	17	84	13	28	234	39	35	16	10	47	5.8	7.1
29	22	61	12	335	---	51	31	15	10	26	5.8	6.9
30	34	44	11	320	---	131	29	16	10	29	5.7	6.2
31	38	---	10	184	---	102	---	17	---	28	5.5	---
TOTAL	256.7	2633	564	2657.2	14437	2676	1605	662	429	650.9	329.8	255.1
MEAN	8.28	87.8	18.2	85.7	516	86.3	53.5	21.4	14.3	21.0	10.6	8.50
MAX	38	490	52	335	3850	193	88	39	25	99	28	13
MIN	2.7	21	10	8.3	48	38	29	14	10	7.5	5.5	4.9
AC-FT	509	5220	1120	5270	28640	5310	3180	1310	851	1290	654	506
CFSM	.10	1.06	.22	1.03	6.20	1.04	.64	.26	.17	.25	.13	.10
IN.	.11	1.18	.25	1.19	6.46	1.20	.72	.30	.19	.29	.15	.11

07056515 BEAR CREEK NEAR SILVER HILL--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	5.90	46.4	46.9	54.3	225	99.9	90.6	105	75.3	24.5	8.23	6.09
MAX	8.28	87.8	75.7	85.7	516	151	172	257	170	35.2	10.6	8.50
(WY)	2001	2001	2000	2001	2001	1999	1999	2000	2000	1999	2001	2001
MIN	3.52	4.98	18.2	22.9	77.9	62.2	46.1	21.4	14.3	17.3	5.94	3.50
(WY)	2000	2000	2001	2000	2000	2000	2000	2001	2001	2000	1999	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	23786.2		27155.7			
ANNUAL MEAN	65.0		74.4		68.5	
HIGHEST ANNUAL MEAN					74.4	2001
LOWEST ANNUAL MEAN					62.7	2000
HIGHEST DAILY MEAN	3650	May 27	3850	Feb 16	3850	Feb 16 2001
LOWEST DAILY MEAN	2.7	Oct 16	2.7	Oct 16	2.7	Oct 3 1999
ANNUAL SEVEN-DAY MINIMUM	3.7	Oct 14	3.7	Oct 14	2.8	Oct 1 1999
MAXIMUM PEAK FLOW			7610	Feb 15	7610	Feb 15 2001
MAXIMUM PEAK STAGE			8.36	Feb 15	8.36	Feb 15 2001
INSTANTANEOUS LOW FLOW			2.5	Oct 16,17	2.3	Oct 4 1999
ANNUAL RUNOFF (AC-FT)	47180		53860		49640	
ANNUAL RUNOFF (CFSM)	.78		.90		.82	
ANNUAL RUNOFF (INCHES)	10.65		12.16		11.20	
10 PERCENT EXCEEDS	116		120		135	
50 PERCENT EXCEEDS	21		21		18	
90 PERCENT EXCEEDS	6.0		6.3		4.6	



07056515 BEAR CREEK NEAR SILVER HILL--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
03...	1000	80020	80513	5.6	756	7.4	81	7.9	360	19.7
NOV										
15...	1115	80020	1028	85	748	14.3	130	8.0	243	10.2
DEC										
19...	0830	80020	80513	30	758	8.4	64	8.1	259	3.7
JAN										
16...	1315	80020	80513	108	767	13.3	109	8.7	167	7.3
29...	1520	80020	80513	943	740	11.2	99	7.7	126	8.8
FEB										
14...	0845	80020	80513	607	763	10.4	91	7.5	130	9.5
21...	1030	80020	80513	186	764	10.6	93	7.7	178	9.9
MAR										
20...	1000	80020	80513	43	762	12.3	112	8.2	210	11.1
APR										
25...	1035	80020	80513	36	760	7.3	73	6.9	193	15.0
MAY										
09...	0900	80020	80513	35	766	9.2	93	7.8	236	16.0
JUN										
07...	0845	80020	80513	17	752	8.0	89	7.5	276	20.3
JUL										
10...	0855	80020	80513	8.6	751	6.2	74	7.9	331	23.4
AUG										
17...	0830	80020	80513	9.6	753	6.8	76	7.5	313	20.3
SEP										
06...	1045	80020	80513	5.2	766	8.0	97	7.9	340	25.3

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L (71846)	NITROGEN DISSOLVED (MG/L (00602)	NITROGEN, NITRATE DISSOLVED (MG/L (00618)
OCT								
03...	160	202	<.020	.11	.20	--	.64	--
NOV								
15...	96	138	<.041	E.06	<.08	--	--	--
DEC								
19...	103	150	<.041	E.08	E.07	--	--	--
JAN								
16...	65	97	<.041	E.07	<.08	--	--	--
29...	38	85	.061	.52	1.2	.08	1.2	--
FEB								
14...	46	84	.105	.26	.62	.14	.99	--
21...	66	112	<.041	E.08	.13	--	--	--
MAR								
20...	84	120	<.041	<.10	.12	--	--	--
APR								
25...	81	--	<.041	.10	.13	--	.35	--
MAY								
09...	100	144	<.041	.10	.12	--	.46	.354
JUN								
07...	117	156	<.040	.11	.13	--	.48	.370
JUL								
10...	145	200	E.034	.10	.18	--	.58	.466
AUG								
17...	155	91	E.024	.14	.13	--	.69	--
SEP								
06...	170	202	E.010	E.13	.13	--	--	--

07056515 BEAR CREEK NEAR SILVER HILL--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001--continued

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
OCT									
03...	--	.526	--	<.010	--	--	.72	.031	.011
NOV									
15...	--	.755	--	<.006	--	--	--	--	.025
DEC									
19...	--	.929	--	<.006	--	--	--	--	.018
JAN									
16...	--	.842	--	<.006	--	--	--	--	.017
29...	--	.702	--	E.005	.45	1.1	1.9	.218	.087
FEB									
14...	--	.732	--	E.003	.16	.51	1.3	.224	.081
21...	--	1.45	--	E.004	--	--	1.6	.071	.026
MAR									
20...	--	.487	--	<.006	--	--	.60	--	.012
APR									
25...	--	.253	--	E.003	--	--	.39	--	.013
MAY									
09...	1.57	.360	.020	.006	--	--	.48	--	.016
JUN									
07...	1.64	.377	.023	.007	--	--	.50	--	.021
JUL									
10...	2.06	.475	.030	.009	--	--	.65	--	.014
AUG									
17...	--	.546	--	E.004	--	--	.67	--	.026
SEP									
06...	--	E.525	--	E.008	--	--	--	--	E.018

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
03...	.010	.018	1.2	150	160	110	92	51	.77
NOV									
15...	E.015	.031	1.6	--	52	72	99	31	7.1
DEC									
19...	E.014	.022	1.1	110	80	51	99	35	2.8
JAN									
16...	E.014	.024	1.6	E6	E6	E16	98	17	5.0
29...	.071	.354	8.7	2900	E3100	4800	90	196	499
FEB									
14...	.073	.155	4.3	820	570	1300	86	48	79
21...	.023	.035	1.2	130	94	60	100	21	11
MAR									
20...	<.018	.016	1.0	25	E9	E8	97	24	2.8
APR									
25...	<.018	.021	1.1	55	49	31	98	18	1.7
MAY									
09...	E.009	.017	1.2	32	47	63	98	19	1.8
JUN									
07...	<.020	.030	.96	38	41	110	48	39	1.8
JUL									
10...	E.010	.022	1.0	23	36	180	90	76	1.8
AUG									
17...	E.013	.033	3.9	49	61	110	78	78	2.0
SEP									
06...	E.001	.024	.96	E28	60	110	89	84	1.2

Remark codes used in this report:
< -- Less than
E -- Estimated value

07059500 NORFORK LAKE NEAR NORFORK

LOCATION.--Lat 36°14'57", long 92°14'16", in SE1/4 sec.2, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, at dam on North Fork River, 4.3 mi northeast of Norfork.

DRAINAGE AREA.--1,808 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY COLLECTING SAMPLE CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
11...	1148	80513	154	.000	4.70	766	8.1	90	8.3	315	20.9
11...	1149	80513	154	10.0	--	766	8.0	89	8.3	315	20.8
11...	1150	80513	154	20.0	--	766	7.9	88	8.3	315	20.8
11...	1151	80513	154	30.0	--	766	7.9	87	8.3	315	20.8
11...	1152	80513	154	40.0	--	766	7.9	87	8.3	316	20.7
11...	1153	80513	154	50.0	--	766	7.9	88	8.3	314	20.8
11...	1154	80513	154	56.0	--	766	7.3	81	8.3	315	20.5
11...	1156	80513	154	57.0	--	766	3.8	42	8.2	318	20.3
11...	1157	80513	154	58.0	--	766	.4	4	7.8	336	17.8
11...	1158	80513	154	60.0	--	766	.2	2	7.8	335	16.7
11...	1159	80513	154	66.0	--	766	.3	3	7.8	336	15.6
11...	1200	80513	154	70.0	--	766	.4	4	7.8	336	14.5
11...	1201	80513	154	80.0	--	766	.4	4	7.9	337	13.2
11...	1202	80513	154	90.0	--	766	.2	2	7.9	338	12.2
11...	1203	80513	154	100	--	766	.1	1	7.9	344	11.5
11...	1204	80513	154	110	--	766	.1	0	7.9	345	11.1
11...	1205	80513	154	120	--	766	.1	0	7.9	345	10.7
11...	1206	80513	154	130	--	766	.1	0	7.8	345	10.4
11...	1207	80513	154	140	--	766	.1	0	7.8	346	10.2
11...	1208	80513	154	150	--	766	.1	0	7.8	346	10.1
11...	1209	80513	154	154	--	766	.1	0	7.7	345	10
NOV											
08...	0722	80513	150	1.00	3.50	765	7.3	79	7.5	327	18.7
08...	0723	80513	150	10.0	--	765	7.3	78	7.7	327	18.8
08...	0724	80513	150	20.0	--	765	7.2	77	7.7	327	18.8
08...	0725	80513	150	30.0	--	765	7.2	77	7.8	327	18.8
08...	0726	80513	150	40.0	--	765	7.1	76	7.8	327	18.8
08...	0727	80513	150	50.0	--	765	7.2	77	7.8	327	18.9
08...	0728	80513	150	60.0	--	765	7.1	76	7.8	327	18.9
08...	0729	80513	150	70.0	--	765	.7	7	7.5	351	17.3
08...	0731	80513	150	72.0	--	765	.2	2	7.4	347	16.4
08...	0732	80513	150	77.0	--	765	.2	2	7.4	344	15.0
08...	0733	80513	150	80.0	--	765	.2	2	7.4	346	14.3
08...	0734	80513	150	90.0	--	765	.1	1	7.4	347	12.8
08...	0735	80513	150	100	--	765	.1	1	7.5	350	12.0
08...	0736	80513	150	110	--	765	.1	1	7.5	353	11.4
08...	0737	80513	150	120	--	765	.1	1	7.4	357	10.9
08...	0738	80513	150	130	--	765	.1	1	7.4	355	10.5
08...	0739	80513	150	140	--	765	.1	0	7.4	356	10.2
08...	0740	80513	150	150	--	765	.1	1	7.4	356	10.1
MAR											
26...	1227	80513	156	.000	8.50	770	10.8	94	7.8	326	9.7
26...	1228	80513	156	10.0	--	770	10.5	91	7.8	325	9.6
26...	1229	80513	156	20.0	--	770	10.5	91	7.9	326	9.3
26...	1230	80513	156	30.0	--	770	10.5	91	7.9	328	9.2
26...	1231	80513	156	40.0	--	770	10.4	89	7.9	328	9.2
26...	1232	80513	156	50.0	--	770	10.5	90	7.9	329	9.1
26...	1233	80513	156	60.0	--	770	10.3	89	7.9	326	9.1
26...	1234	80513	156	70.0	--	770	10.4	89	7.9	326	8.8
26...	1235	80513	156	80.0	--	770	10.4	86	7.9	327	7.6
26...	1236	80513	156	90.0	--	770	10.2	84	7.9	322	7.3
26...	1237	80513	156	100	--	770	10.2	83	7.9	327	7.1
26...	1238	80513	156	110	--	770	10.2	82	7.9	324	6.9
26...	1239	80513	156	120	--	770	10.2	82	7.9	328	6.7
26...	1240	80513	156	130	--	770	9.8	79	7.9	328	6.6
26...	1241	80513	156	140	--	770	9.8	79	7.8	327	6.5
26...	1242	80513	156	150	--	770	9.7	78	7.8	329	6.5
26...	1243	80513	156	156	--	770	9.4	76	7.8	328	6.4

07059500 NORFORK LAKE NEAR NORFORK--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
JUN											
19...	1323	80513	159	.60	7.30	758	9.2	117	8.3	332	27.2
19...	1324	80513	159	10.2	--	758	9.3	117	8.3	332	26.5
19...	1326	80513	159	20.0	--	758	9.3	115	8.3	330	26.0
19...	1328	80513	159	21.1	--	758	9.4	116	8.3	331	25.8
19...	1329	80513	159	22.0	--	758	10.1	123	8.2	332	24.9
19...	1330	80513	159	23.0	--	758	10.1	121	8.2	332	24.1
19...	1331	80513	159	24.0	--	758	10.2	121	8.2	332	23.6
19...	1332	80513	159	25.0	--	758	10.4	122	8.2	333	22.7
19...	1333	80513	159	26.0	--	758	10.5	122	8.2	335	22.4
19...	1334	80513	159	27.0	--	758	10.5	120	8.2	337	21.7
19...	1335	80513	159	28.0	--	758	10.6	119	8.1	338	21.0
19...	1336	80513	159	29.0	--	758	10.6	118	8.1	338	20.2
19...	1337	80513	159	29.9	--	758	10.6	117	8.1	338	19.6
19...	1339	80513	159	31.9	--	758	10.6	114	8.0	341	18.3
19...	1341	80513	159	33.0	--	758	10.6	112	8.0	341	17.7
19...	1343	80513	159	35.0	--	758	10	102	7.9	342	16.1
19...	1344	80513	159	37.0	--	758	9.9	99	7.9	341	15.3
19...	1346	80513	159	39.1	--	758	9.6	94	7.8	340	14.2
19...	1347	80513	159	39.9	--	758	9.6	93	7.8	340	13.9
19...	1348	80513	159	43.0	--	758	9.4	90	7.7	341	12.9
19...	1349	80513	159	46.0	--	758	9.1	85	7.7	339	12.2
19...	1350	80513	159	49.0	--	758	8.8	81	7.7	339	11.1
19...	1351	80513	159	50.1	--	758	8.7	79	7.6	339	10.9
19...	1352	80513	159	54.9	--	758	8.5	76	7.6	339	10.2
19...	1353	80513	159	60.1	--	758	8.2	72	7.5	339	9.5
19...	1354	80513	159	70.0	--	758	7.9	68	7.5	339	8.8
19...	1356	80513	159	79.8	--	758	7.9	67	7.5	340	8.3
19...	1357	80513	159	90.2	--	758	7.6	65	7.4	341	8.2
19...	1358	80513	159	99.9	--	758	7.5	64	7.4	341	8.0
19...	1359	80513	159	110	--	758	7.7	65	7.4	341	7.9
19...	1401	80513	159	120	--	758	7.5	64	7.4	341	7.8
19...	1402	80513	159	130	--	758	7.4	62	7.3	342	7.6
19...	1404	80513	159	140	--	758	6.8	57	7.3	343	7.5
19...	1406	80513	159	150	--	758	6.9	58	7.3	342	7.5
19...	1407	80513	159	159	--	758	5.9	49	7.2	342	7.5
JUL											
17...	0708	80513	155	.000	7.00	755	8.3	108	8.1	313	28.4
17...	0709	80513	155	10.0	--	755	8.2	107	8.1	312	28.5
17...	0710	80513	155	20.0	--	755	8.3	108	8.1	313	28.5
17...	0711	80513	155	21.1	--	755	9.8	128	8.1	313	28.4
17...	0712	80513	155	22.1	--	755	11.6	148	8.2	316	27.2
17...	0713	80513	155	24.1	--	755	12.0	150	8.2	317	26.2
17...	0714	80513	155	25.9	--	755	12.0	148	8.2	319	25.4
17...	0715	80513	155	28.8	--	755	11.9	143	8.2	320	23.9
17...	0716	80513	155	30.1	--	755	11.8	140	8.2	323	23.4
17...	0717	80513	155	32.0	--	755	11.6	134	8.2	324	22.1
17...	0718	80513	155	33.9	--	755	11.2	128	8.1	325	21.3
17...	0719	80513	155	36.1	--	755	11.0	122	8.1	326	19.9
17...	0720	80513	155	38.0	--	755	10.8	116	8.1	326	18.5
17...	0721	80513	155	40.0	--	755	10.5	110	8.1	326	17.3
17...	0722	80513	155	42.0	--	755	10.2	104	8.1	328	16.0
17...	0723	80513	155	43.9	--	755	9.8	98	8.0	327	14.9
17...	0724	80513	155	45.9	--	755	9.3	91	8.0	324	14.3
17...	0725	80513	155	48.0	--	755	8.9	86	7.9	326	13.2
17...	0726	80513	155	50.0	--	755	8.4	80	7.9	327	12.5
17...	0727	80513	155	55.0	--	755	7.7	71	7.8	327	11.5
17...	0728	80513	155	60.1	--	755	7.2	66	7.7	327	10.6
17...	0729	80513	155	65.1	--	755	7.1	63	7.7	324	10.0
17...	0730	80513	155	70.0	--	755	7.0	61	7.6	325	9.4
17...	0731	80513	155	75.1	--	755	6.6	57	7.6	329	8.9
17...	0732	80513	155	80.0	--	755	6.4	55	7.5	327	8.9
17...	0733	80513	155	90.1	--	755	6.4	55	7.5	329	8.6
17...	0734	80513	155	99.9	--	755	6.1	52	7.4	331	8.4
17...	0735	80513	155	110	--	755	5.7	49	7.4	334	8.2
17...	0736	80513	155	120	--	755	5.9	50	7.3	330	8.1
17...	0737	80513	155	130	--	755	5.8	50	7.3	329	8.0
17...	0738	80513	155	140	--	755	5.5	47	7.3	329	7.8
17...	0739	80513	155	150	--	755	5.0	42	7.2	329	7.7
17...	0740	80513	155	155	--	755	3.6	31	7.1	332	7.8

07059500 NORFORK LAKE NEAR NORFORK--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
AUG											
15...	1418	80513	156	.000	4.40	755	7.7	104	8.0	284	30.6
15...	1419	80513	156	10.0	--	755	8.0	107	8.3	287	30.3
15...	1420	80513	156	20.0	--	755	7.9	106	8.3	286	30.2
15...	1421	80513	156	27.0	--	755	8.1	109	8.3	288	30.1
15...	1422	80513	156	28.0	--	755	10.2	135	8.3	291	29.6
15...	1423	80513	156	29.0	--	755	12.1	156	8.3	292	28.1
15...	1424	80513	156	30.1	--	755	12.5	159	8.3	295	27.1
15...	1425	80513	156	31.9	--	755	12.6	158	8.3	295	26.1
15...	1426	80513	156	34.1	--	755	12.1	147	8.2	299	24.5
15...	1427	80513	156	35.0	--	755	12.2	144	8.3	329	23.4
15...	1428	80513	156	36.0	--	755	11.9	139	8.3	354	22.4
15...	1429	80513	156	36.9	--	755	11.7	135	8.2	371	21.9
15...	1430	80513	156	38.0	--	755	11.2	128	8.2	394	21.1
15...	1431	80513	156	40.0	--	755	11.0	122	8.2	429	19.8
15...	1432	80513	156	40.9	--	755	10.8	119	8.2	444	19.3
15...	1433	80513	156	43.0	--	755	10.5	113	8.1	470	18.4
15...	1434	80513	156	45.0	--	755	9.9	105	8.1	507	17.2
15...	1435	80513	156	47.0	--	755	9.7	100	8.0	539	16.1
15...	1436	80513	156	49.0	--	755	9.4	94	8.0	574	15.1
15...	1437	80513	156	50.0	--	755	9.1	91	8.0	592	14.6
15...	1438	80513	156	52.0	--	755	8.9	87	7.9	626	13.6
15...	1439	80513	156	53.9	--	755	8.5	82	7.8	546	13.1
15...	1440	80513	156	56.1	--	755	8.1	77	7.7	402	12.4
15...	1441	80513	156	57.9	--	755	7.8	74	7.6	306	12.0
15...	1442	80513	156	60.0	--	755	7.5	70	7.6	306	11.6
15...	1443	80513	156	65.0	--	755	6.7	61	7.5	315	10.6
15...	1444	80513	156	70.0	--	755	6.0	53	7.4	317	10.1
15...	1445	80513	156	80.1	--	755	5.6	49	7.4	307	9.1
15...	1446	80513	156	90.2	--	755	5.2	45	7.4	310	8.6
15...	1447	80513	156	100	--	755	4.7	41	7.3	317	8.5
15...	1448	80513	156	110	--	755	4.1	35	7.3	319	8.3
15...	1449	80513	156	120	--	755	4.1	35	7.3	318	8.2
15...	1450	80513	156	130	--	755	4.0	34	7.3	310	8.1
15...	1451	80513	156	140	--	755	4.2	36	7.3	314	7.9
15...	1452	80513	156	150	--	755	3.1	26	7.2	310	7.8
15...	1453	80513	156	156	--	755	2.4	20	7.2	312	7.8
SEP											
25...	1215	80513	149	2.90	5.20	774	8.5	100	8.4	339	24.4
25...	1216	80513	149	10.0	--	774	8.4	99	8.4	339	24.5
25...	1217	80513	149	20.2	--	774	8.4	99	8.3	339	24.5
25...	1218	80513	149	29.9	--	774	8.3	98	7.7	338	24.5
25...	1219	80513	149	39.9	--	774	8.3	98	7.6	338	24.5
25...	1220	80513	149	46.9	--	774	8.2	96	7.6	338	24.4
25...	1221	80513	149	48.0	--	774	8.2	96	7.5	340	24.2
25...	1222	80513	149	48.9	--	774	7.6	87	7.4	348	23.1
25...	1223	80513	149	50.0	--	774	6.9	76	7.0	363	21.2
25...	1224	80513	149	51.0	--	774	6.9	74	7.0	365	19.6
25...	1225	80513	149	52.0	--	774	6.7	70	7.0	365	18.3
25...	1226	80513	149	54.0	--	774	6.5	66	7.0	365	16.9
25...	1227	80513	149	56.0	--	774	6.2	62	7.0	365	16.2
25...	1228	80513	149	60.0	--	774	5.8	56	7.0	365	14.4
25...	1229	80513	149	65.1	--	774	5.2	49	7.1	365	12.9
25...	1230	80513	149	70.0	--	774	4.2	38	7.0	367	11.9
25...	1231	80513	149	75.0	--	774	3.7	33	7.0	367	10.9
25...	1232	80513	149	79.9	--	774	3.0	27	7.0	370	10.3
25...	1233	80513	149	89.9	--	774	2.2	19	6.9	372	9.7
25...	1234	80513	149	100	--	774	1.2	10	6.8	375	9.2
25...	1235	80513	149	110	--	774	1.2	10	6.8	373	9.0
25...	1236	80513	149	120	--	774	.8	7	6.7	375	8.8
25...	1237	80513	149	130	--	774	.3	3	6.6	377	8.6
25...	1238	80513	149	140	--	774	.2	2	6.5	376	8.5
25...	1239	80513	149	149	--	774	.1	1	7.5	374	8.3

07059998 NORTH FORK RIVER AT BASE OF NORFORK DAM NEAR NORFORK

LOCATION.--Lat 36°14'54", long 92°14'24", in NE1/4NW1/4 sec.11, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, 300 ft below Norfork Dam, 3.9 mi northeast of Norfork.

DRAINAGE AREA.--1,808 mi².

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Water years 1967-71, May 1991 to current year. Prior to October 1998, published as "07060000 North Fork River at Norfork Dam, near Norfork".

DISSOLVED OXYGEN: May 1991 to current year. Prior to October 1998, published as "07060000 North Fork River at Norfork Dam, near Norfork".

REMARKS.--Flow completely regulated by Norfork Reservoir. Dissolved oxygen and water temperature collected continuously June through December.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.6	11.0	11.7	13.1	11.4	12.3	12.1	11.3	11.8	---	---	---
2	12.7	11.0	12.0	12.9	11.2	11.8	12.2	11.4	11.9	---	---	---
3	12.8	11.1	12.2	13.4	11.2	12.0	---	---	---	---	---	---
4	12.8	11.0	11.9	13.1	11.2	11.6	12.0	10.9	11.5	---	---	---
5	12.6	11.1	12.0	12.5	11.0	11.4	---	---	---	---	---	---
6	13.4	11.0	11.7	12.6	11.2	11.5	11.5	11.0	11.3	---	---	---
7	13.2	10.7	11.6	13.3	11.1	11.6	11.4	10.8	11.2	---	---	---
8	12.8	10.7	11.4	13.2	11.3	11.8	11.8	10.9	11.3	---	---	---
9	12.7	10.9	11.8	13.3	11.2	12.0	11.4	10.8	11.2	---	---	---
10	12.4	11.1	11.7	12.9	10.8	11.4	11.2	10.9	11.1	---	---	---
11	12.8	11.2	12.1	12.7	10.8	11.1	11.1	10.7	11.0	---	---	---
12	12.8	11.2	12.2	12.6	11.0	11.3	11.0	10.5	10.8	---	---	---
13	12.6	11.1	11.7	13.2	11.0	11.9	10.6	10.3	10.5	---	---	---
14	12.6	11.2	11.8	13.1	11.3	11.9	10.5	10.2	10.3	---	---	---
15	12.8	11.2	12.0	12.9	11.0	11.6	10.3	10.1	10.2	---	---	---
16	12.8	11.1	11.7	12.8	11.1	11.8	10.1	9.8	10.0	---	---	---
17	12.5	11.1	11.6	13.1	11.1	11.9	9.8	9.4	9.6	---	---	---
18	12.6	11.1	11.5	13.0	10.9	11.6	9.4	9.1	9.3	---	---	---
19	12.7	11.2	11.9	12.5	10.8	11.5	9.3	8.9	9.1	---	---	---
20	12.9	11.2	11.8	12.8	10.9	11.9	8.9	8.7	8.8	---	---	---
21	12.9	11.3	11.9	12.9	11.1	12.0	9.0	8.5	8.7	---	---	---
22	12.9	11.3	12.0	12.4	11.1	11.6	8.6	8.1	8.4	---	---	---
23	12.6	11.3	11.7	12.3	11.1	11.4	8.2	7.9	8.1	---	---	---
24	12.9	11.2	11.9	12.8	11.3	11.6	8.3	7.9	8.0	---	---	---
25	12.9	11.4	12.1	12.7	11.4	12.0	7.9	7.7	7.8	---	---	---
26	12.9	11.3	11.9	12.5	11.2	11.7	7.7	7.6	7.6	---	---	---
27	12.5	11.1	11.5	12.1	11.1	11.5	7.6	7.4	7.5	---	---	---
28	13.0	11.3	11.9	12.0	11.0	11.5	7.8	7.3	7.5	---	---	---
29	12.6	11.0	11.5	12.1	11.1	11.7	7.4	7.1	7.3	---	---	---
30	12.6	11.2	11.6	12.4	11.2	11.9	7.3	6.9	7.1	---	---	---
31	13.1	11.5	12.1	---	---	---	7.0	6.7	6.8	---	---	---
MONTH	13.4	10.7	11.8	13.4	10.8	11.7	---	---	---	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.3	7.8	8.0	8.9	7.9	8.5	9.9	8.6	9.1
2	8.7	7.5	7.9	8.6	7.7	8.0	9.0	8.2	8.6	9.7	8.6	9.0
3	7.7	7.4	7.5	8.6	7.6	8.0	9.1	8.4	8.8	9.7	8.6	9.0
4	7.7	7.4	7.5	8.7	7.8	8.1	9.1	8.3	8.5	9.8	8.5	9.1
5	8.8	7.4	7.7	8.5	7.7	8.0	9.2	8.2	8.5	9.4	8.4	9.0
6	7.9	7.5	7.8	8.2	7.8	8.0	9.4	8.2	8.6	9.9	8.6	9.5
7	8.5	7.5	7.9	8.4	7.8	8.0	9.1	8.2	8.6	10.1	9.1	9.8
8	7.8	7.5	7.7	8.7	7.8	8.1	9.1	8.3	8.6	10.3	8.7	9.3
9	8.8	7.5	7.9	8.7	7.7	8.2	9.2	8.4	8.7	9.9	8.9	9.3
10	8.6	7.6	7.9	8.6	7.8	8.1	9.4	8.4	8.7	9.9	8.8	9.2
11	8.1	7.6	7.7	9.0	7.9	8.2	9.5	8.4	8.8	9.9	8.6	9.2
12	8.7	7.5	7.9	8.7	7.9	8.2	9.4	8.3	8.8	10.3	8.8	9.6
13	8.7	7.6	7.9	8.4	7.9	8.1	9.1	8.4	8.7	10.4	8.8	9.5
14	9.0	7.6	8.0	9.0	7.7	8.2	9.4	8.4	8.8	10.4	8.8	9.5
15	8.8	7.6	8.1	9.0	7.8	8.3	9.5	8.4	8.8	10.1	8.8	9.4
16	9.2	7.6	8.1	8.4	8.0	8.1	9.4	8.4	8.8	10.6	8.9	9.5
17	8.9	7.6	8.0	8.6	7.9	8.2	9.3	8.4	8.7	10.5	8.7	9.4
18	8.9	7.6	8.0	8.8	8.0	8.2	9.2	8.3	8.6	10.2	8.7	9.4
19	8.7	7.7	8.0	8.5	8.0	8.2	9.4	8.4	8.8	10.4	8.8	9.4
20	8.5	7.7	7.9	8.9	8.0	8.3	9.5	8.2	8.7	10.1	8.8	9.5
21	8.3	7.6	7.9	8.9	8.0	8.3	9.2	8.4	8.8	10.5	8.8	9.4
22	8.5	7.6	8.0	8.8	8.0	8.3	9.6	8.4	9.1	10.4	8.8	9.5
23	8.7	7.7	7.9	8.7	8.1	8.3	9.6	8.5	9.0	10.3	8.9	9.5
24	8.4	7.7	8.0	8.8	8.1	8.4	9.6	8.5	8.9	10.9	8.9	9.4
25	8.6	7.7	8.0	8.7	8.1	8.3	9.4	8.5	8.8	10.2	8.8	9.5
26	8.4	7.6	8.0	8.7	8.1	8.3	9.3	8.5	8.8	10.1	8.7	9.3
27	8.5	7.7	7.9	8.9	8.1	8.4	9.6	8.4	8.9	10.4	8.7	9.4
28	8.5	7.7	7.9	9.1	8.1	8.4	9.6	8.9	9.2	9.9	8.9	9.4
29	8.1	7.7	7.9	9.1	8.2	8.5	9.4	8.9	9.1	10.2	8.8	9.4
30	8.6	7.7	8.0	8.9	8.2	8.5	9.5	8.5	9.0	10.4	8.8	9.4
31	---	---	---	8.9	7.9	8.5	9.4	8.8	9.1	---	---	---
MONTH	---	---	---	9.1	7.6	8.2	9.6	7.9	8.8	10.9	8.4	9.4

07059998 NORTH FORK RIVER AT BASE OF NORFORK DAM NEAR NORFORK--CONTNUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	1.9	4.7	8.1	2.7	6.0	9.6	1.7	6.4	---	---	---
2	7.8	2.0	4.6	9.7	2.5	5.3	11.2	2.5	7.5	---	---	---
3	8.9	3.4	5.1	9.7	1.8	5.0	---	---	---	---	---	---
4	7.0	2.1	4.8	8.1	1.1	3.2	10.1	5.4	7.9	---	---	---
5	7.2	1.7	4.8	8.3	1.0	3.1	9.5	2.5	6.8	---	---	---
6	6.4	2.0	3.9	7.4	1.0	3.1	9.0	2.7	6.5	---	---	---
7	7.5	2.0	4.5	8.3	1.4	4.2	---	---	---	---	---	---
8	8.4	1.0	4.5	8.1	2.4	4.8	7.3	1.4	5.0	---	---	---
9	7.6	1.0	4.6	8.0	2.3	5.5	7.2	2.6	5.0	---	---	---
10	8.9	1.1	5.1	8.7	1.2	3.6	6.8	2.5	4.5	---	---	---
11	7.4	2.3	5.8	7.8	1.1	2.8	8.1	1.1	5.3	---	---	---
12	7.3	2.2	5.4	7.6	1.0	2.5	9.5	6.8	8.2	---	---	---
13	6.4	1.0	3.1	8.0	1.7	4.5	9.9	8.1	9.0	---	---	---
14	6.5	.7	3.5	8.7	2.8	5.7	9.7	7.9	8.7	---	---	---
15	6.5	1.2	4.1	8.3	1.7	4.4	10.1	8.4	9.2	---	---	---
16	5.8	.5	2.7	9.2	1.7	5.9	10.1	8.4	8.8	---	---	---
17	7.4	.4	2.5	9.4	2.2	5.6	10.6	8.9	9.4	---	---	---
18	6.3	.6	2.9	9.4	1.2	4.2	9.5	9.1	9.2	---	---	---
19	7.5	.8	3.5	8.5	1.8	4.9	11.1	9.2	10.1	---	---	---
20	7.2	1.6	4.0	9.1	1.5	5.5	11.6	9.9	10.7	---	---	---
21	7.2	1.5	3.9	8.9	1.5	5.2	11.2	9.8	10.6	---	---	---
22	7.0	1.3	3.8	8.7	1.1	3.9	11.6	10.0	10.5	---	---	---
23	7.1	1.4	4.2	8.8	.9	2.7	10.9	10.0	10.3	---	---	---
24	7.2	1.4	4.8	8.8	1.1	2.7	11.2	10.1	10.5	---	---	---
25	7.0	2.8	5.7	---	---	---	11.0	10.4	10.7	---	---	---
26	6.7	1.7	4.4	---	---	---	11.7	10.5	11.0	---	---	---
27	7.5	.6	3.1	8.6	1.3	4.4	---	---	---	---	---	---
28	7.4	.7	3.6	9.0	1.2	4.8	12.3	10.6	11.2	---	---	---
29	6.6	.6	2.4	9.4	2.4	5.2	12.1	10.8	11.2	---	---	---
30	7.9	1.4	4.0	9.6	3.0	6.4	11.7	10.9	11.2	---	---	---
31	9.2	1.6	5.4	---	---	---	11.7	11.1	11.3	---	---	---
MONTH	9.2	.4	4.2	---	---	---	---	---	---	---	---	---

		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	10.1	6.9	8.3	10.3	5.3	7.2	8.9	3.1	5.1
2	11.5	7.8	9.6	10.5	7.0	8.5	8.9	5.5	7.0	7.9	3.2	5.2
3	10.1	7.9	9.2	12.0	6.9	8.9	8.0	5.9	7.0	9.2	3.3	5.4
4	10.4	7.8	9.2	11.5	6.6	8.7	8.7	4.7	6.5	8.5	3.0	5.4
5	12.3	9.6	10.6	9.7	6.7	8.1	8.8	4.6	6.4	9.1	3.5	6.1
6	11.2	8.5	10.0	9.7	6.8	8.6	10.0	4.5	6.7	9.0	3.3	5.8
7	12.4	8.1	10.2	10.1	6.7	8.5	9.1	4.2	6.2	9.0	5.6	6.7
8	12.6	7.7	10.8	11.8	6.5	8.7	9.0	4.6	6.3	10.9	3.7	7.0
9	12.4	8.4	11.1	11.6	6.6	8.4	9.8	4.8	7.1	9.6	3.3	6.0
10	11.7	7.9	9.4	11.1	6.6	8.3	9.6	5.2	6.9	9.9	2.7	5.2
11	12.5	7.6	10.1	11.7	6.2	8.4	8.9	4.5	6.4	8.9	2.6	5.1
12	12.1	8.2	10.1	10.6	7.4	8.8	8.0	4.2	6.0	8.6	4.2	6.1
13	12.0	7.5	9.8	9.2	6.4	8.0	8.7	4.1	6.5	9.2	2.8	5.1
14	12.0	7.6	9.8	10.4	6.2	7.9	9.7	4.3	6.7	8.6	2.8	5.2
15	11.6	7.4	9.2	10.4	5.9	7.6	8.7	4.3	6.2	8.8	2.8	5.3
16	11.3	7.5	9.0	9.4	5.9	7.5	7.9	4.3	6.0	8.2	2.5	5.0
17	11.5	7.4	9.0	9.7	6.1	7.8	8.8	4.5	6.1	7.5	2.4	4.7
18	11.7	8.4	9.8	9.0	5.7	7.4	8.6	4.1	5.8	7.8	2.3	5.1
19	12.4	.0	9.2	10.4	5.7	7.5	8.1	4.0	5.8	9.0	2.0	4.5
20	12.0	7.3	9.3	11.3	5.7	7.7	8.5	4.2	5.9	10.1	4.5	7.2
21	11.1	7.2	8.9	10.3	5.6	7.8	8.6	4.7	6.3	9.6	3.6	6.4
22	11.6	7.3	8.9	10.3	7.2	8.4	9.1	4.2	6.5	9.0	3.0	6.5
23	10.6	7.0	8.6	10.3	6.6	7.6	8.4	4.5	6.2	9.0	2.3	5.9
24	10.3	7.2	8.6	10.1	5.6	7.6	8.8	4.0	6.1	9.5	3.0	6.1
25	10.6	7.1	8.6	---	---	---	7.9	3.8	5.5	9.5	2.4	6.0
26	10.4	7.2	8.6	9.8	5.3	7.2	8.1	3.4	5.4	9.1	3.4	6.1
27	10.5	7.0	8.7	10.1	5.2	7.0	8.0	3.7	5.5	9.5	2.9	6.0
28	10.6	7.0	8.4	9.4	5.2	6.9	7.2	5.8	6.5	9.1	2.0	5.3
29	9.9	6.8	8.3	9.0	5.1	6.9	7.9	6.0	6.8	9.1	2.3	5.5
30	10.5	7.1	8.5	10.2	5.0	7.1	9.5	3.8	7.3	8.7	1.9	5.4
31	---	---	---	10.4	5.4	7.2	9.5	3.7	7.6	---	---	---
MONTH	---	---	---	---	---	---	10.3	3.4	6.4	10.9	1.9	5.7

07060000 NORTH FORK RIVER AT NORFORK DAM NEAR NORFORK

LOCATION.--Lat 36°14'18", long 92°14'18", in SE1/4SW1/4 sec.2, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, at Norfork Dam, 3.9 mi northeast of Norfork, and at mile 4.8.

DRAINAGE AREA.--1,808 mi^2.

PERIOD OF RECORD.--Water years 1946-71, 1974-89, November 1990 to current year.

REMARKS.--Flow completely regulated by Norfork Reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT									
11...	1227	80513	80513	770	13.5	132	8.2	339	14.7
NOV									
08...	0800	80513	80513	768	8.8	80	7.5	356	11.5
MAR									
26...	1310	80513	80513	773	13.0	118	8.2	346	11.5
JUN									
19...	1435	80513	80513	762	15.2	153	8.2	343	15.6
JUL									
17...	0811	80513	80513	758	10.1	96	7.7	349	12.9
AUG									
15...	1518	80513	80513	756	16.0	167	8.4	533	16.8
SEP									
25...	1308	80513	80513	774	16.3	157	8.5	380	14.4

07060500 WHITE RIVER AT CALICO ROCK

LOCATION.--Lat 36°06'58", long 92°08'35", in SE1/4NE1/4 sec.22, T.17 N., R.11 W., Izard County, Hydrologic Unit 11010004, on left bank at Calico Rock, 200 ft upstream from bridge on State Highway 5, 700 ft upstream from Calico Creek, 3.2 mi downstream from Cataract Creek, 6.0 mi upstream from Piney Creek, and at mile 359.1.

DRAINAGE AREA.--9,978 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Water-discharge records good. Satellite telemeter at station. Flow regulated since 1943 by Norfork Lake, capacity, 1,983,000 acre-ft, since July 24, 1951, by Bull Shoals Lake, 59.5 mi upstream, capacity, 5,408,000 acre-ft, since Sept. 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 acre-ft, and since Dec. 26, 1963, by Beaver Lake, capacity, 1,951,500 acre-ft.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	2120	2430	3800	6380	19500	1690	4810	1350	3040	13400	1380
2	1860	1820	2120	7330	8070	9160	3360	4650	1260	2670	14200	1880
3	7360	1040	1860	10900	11300	11400	3630	2300	1220	4490	16600	1660
4	5370	1500	2550	9160	4580	9360	5520	2440	2200	3390	9860	1710
5	3460	777	2550	3480	2830	7980	2010	2050	4180	4180	4980	7220
6	2150	1090	3610	1610	5680	13600	5320	1440	3290	4710	5700	6380
7	1340	2290	3800	1120	5170	13000	3610	e3720	1970	3930	12400	12000
8	1070	6580	5740	1030	3810	12800	5660	e2080	1340	4990	10500	10100
9	1670	4210	3670	3700	3480	10600	4580	2590	1490	5520	12500	4480
10	2110	3010	3040	6590	3190	14400	7460	3110	2980	9180	12500	2290
11	1430	2120	2050	6040	3050	8250	7720	3260	2770	2450	3970	3320
12	1570	1800	9280	2840	4250	6940	4370	1320	5860	6730	1750	6000
13	1610	1710	10200	1930	8560	8640	3350	1260	5090	3960	2920	5650
14	1010	2170	8350	2480	6570	6820	3890	1250	4330	6770	5250	5580
15	1240	3820	4170	2830	14200	7580	3890	2170	3340	1820	2210	5000
16	1250	3850	2260	3350	32400	7350	4770	3150	3380	1480	1560	2540
17	1360	2270	3660	3050	42100	8590	4040	3140	2670	6930	4720	3070
18	814	5040	6990	2830	22100	8750	2130	2300	5330	9590	4070	6630
19	715	3780	9880	3130	14300	8330	5300	1710	4950	10500	2150	3750
20	1340	2040	14000	2920	10300	8080	3630	1260	2370	7820	3410	4780
21	925	7440	10600	2870	9850	6270	4420	1160	4170	8750	6220	3300
22	1000	8330	14300	2350	16100	5040	4760	1220	1970	3190	11100	3850
23	1120	4670	7890	3990	18300	4470	2770	1190	1560	7240	11400	2520
24	645	1410	2120	2260	16000	4680	7760	1270	1350	11300	12300	2580
25	1210	2080	2710	2170	19200	4020	5320	2740	2050	11400	9710	2980
26	1430	4530	1980	6130	24500	2870	3420	2530	6130	9480	7770	3920
27	929	5040	2020	4710	17000	4310	2820	1300	2190	6800	8660	2870
28	689	3440	1950	2080	19300	4460	1870	1230	1620	7140	5510	6390
29	1110	2730	4340	1680	---	4180	1360	1290	6070	2330	4170	3460
30	868	2770	2890	2980	---	3570	2260	1090	4360	4440	3500	2310
31	853	---	3200	6580	---	3100	---	1210	---	11300	2840	---
TOTAL	50818	95477	156210	117920	352570	248100	122690	66240	92840	187520	227830	129600
MEAN	1639	3183	5039	3804	12590	8003	4090	2137	3095	6049	7349	4320
MAX	7360	8330	14300	10900	42100	19500	7760	4810	6130	11400	16600	12000
MIN	645	777	1860	1030	2830	2870	1360	1090	1220	1480	1560	1380
AC-FT	100800	189400	309800	233900	699300	492100	243400	131400	184100	371900	451900	257100

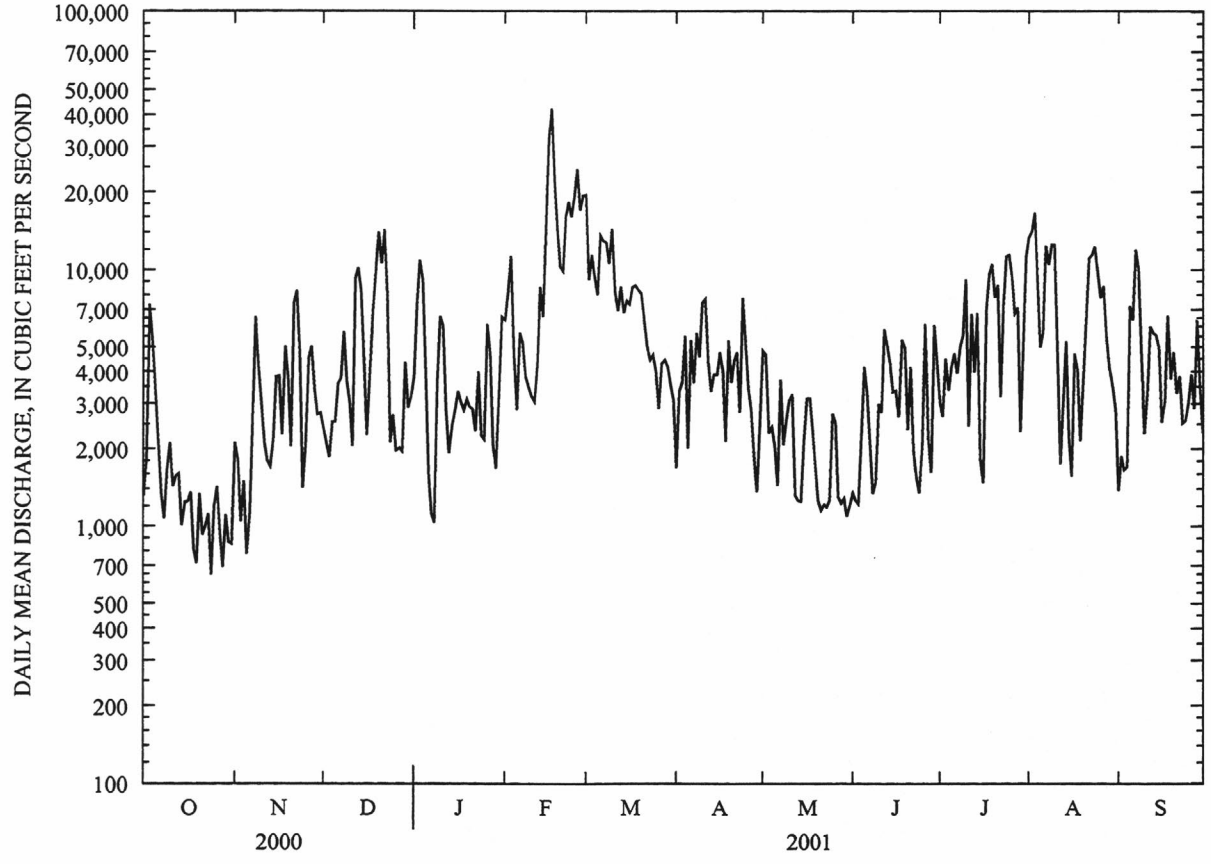
07060500 WHITE RIVER AT CALICO ROCK--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	5406	7229	9936	10700	12470	14310	15830	14010	10100	9118	7590	5771
MAX	19280	26560	31170	34700	39600	62300	86320	64400	44330	29410	25390	25180
(WY)	1942	1947	1997	1950	1949	1945	1945	1943	1945	1957	1957	1957
MIN	584	892	1359	1680	2204	3468	1610	2137	3095	1545	1210	678
(WY)	1955	1982	1982	1955	1964	2000	1981	2001	2001	1944	1943	1943

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	1755052		1847815			
ANNUAL MEAN	4795		5063		10190	
HIGHEST ANNUAL MEAN					22890	1945
LOWEST ANNUAL MEAN					3482	1981
HIGHEST DAILY MEAN	30000	May 28	42100	Feb 17	292000	Apr 16 1945
LOWEST DAILY MEAN	645	Oct 24	645	Oct 24	310	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	937	Oct 18	937	Oct 18	412	Sep 23 1954
MAXIMUM PEAK FLOW			48600	Feb 17	310000	Apr 16 1945
MAXIMUM PEAK STAGE			15.98	Feb 17	[a]49.84	Apr 16 1945
INSTANTANEOUS LOW FLOW			543	Oct 24	[b]305	Sep 27 1954
ANNUAL RUNOFF (AC-FT)	3481000		3665000		7385000	
10 PERCENT EXCEEDS	10900		10600		21600	
50 PERCENT EXCEEDS	3260		3630		6850	
90 PERCENT EXCEEDS	1310		1320		1970	
90 PERCENT EXCEEDS	1310		1320		1970	

[a]At present datum
[b]Observed
[e]Estimated



07060500 WHITE RIVER AT CALICO ROCK--CONTINUED

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Water years 1967-1981, 1991 to current year.

DISSOLVED OXYGEN: May 1991 to December 1994.

REMARKS.--Flow regulated by upstream reservoirs.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 16...	0750	81213	80513	4440	755	12.1	110	7.2	310	10.5	150
JAN 24...	1400	81213	80513	2330	777	12.9	101	8.5	264	5.7	130
MAR 21...	0830	81213	80513	5450	769	11.6	99	8.3	286	8.7	140
MAY 08...	1345	81213	80513	1610	775	10.1	106	8.3	324	18.5	160
AUG 15...	1150	81213	80513	1180	755	9.4	108	7.8	298	21.5	150

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
NOV 16...	37.0	14.0	1.50	.1	3.1	4	149	5.3	6.7	.22
JAN 24...	37.0	9.60	1.30	.1	3.0	5	121	5.4	7.0	.20
MAR 21...	37.0	12.0	1.50	.1	3.1	4	127	5.4	6.8	.22
MAY 08...	35.0	18.0	1.40	.1	2.5	3	155	4.8	5.8	.23
AUG 15...	36.0	14.0	1.80	.1	3.7	5	152	5.7	6.8	.23

DATE	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)
NOV 16...	1970	164	158	.030	.48	.04	.170	.753
JAN 24...	906	144	137	.020	.30	.03	--	--
MAR 21...	2350	160	143	.016	.22	.02	--	--
MAY 08...	726	167	161	<.010	.23	--	--	--
AUG 15...	532	167	160	.020	<.20	.03	--	--

07060500 WHITE RIVER AT CALICO ROCK--CONTINUED

DATE	TIME	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV									
16...	0750	.180	.033	.010	.45	.66	<.020	<.010	<.020
JAN									
24...	1400	.190	--	<.010	.28	.49	<.020	<.010	<.020
MAR									
21...	0830	.150	--	<.010	.20	.37	<.020	<.010	<.020
MAY									
08...	1345	.100	--	<.010	--	.33	<.020	<.010	<.020
AUG									
15...	1150	.170	--	<.010	--	--	<.020	<.010	<.020

DATE	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV						
16...	--	32	41	97	36	432
JAN						
24...	<1	E1	<1	98	28	176
MAR						
21...	E5	E5	E3	99	24	353
MAY						
08...	E5	E7	E5	100	34	148
AUG						
15...	E5	55	98	93	37	118

Remark codes used in this report:
< -- Less than
E -- Estimated value

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.4	17.4	19.1	19.6	18.1	19.0	10.3	8.2	9.2	3.5	2.0	2.7
2	20.9	17.9	19.3	19.0	15.8	17.2	9.3	7.2	8.5	5.4	2.8	3.9
3	19.4	14.6	17.2	17.9	16.4	17.0	---	---	---	5.7	4.3	5.0
4	20.1	14.1	17.1	16.4	15.0	15.8	7.3	4.9	5.9	6.6	5.5	6.0
5	19.3	15.0	17.4	15.4	14.8	15.1	8.7	5.8	7.3	7.0	5.1	5.9
6	18.2	15.0	16.5	17.6	15.2	16.2	8.8	6.4	8.1	7.2	4.4	5.7
7	17.8	14.8	16.1	15.9	13.9	14.7	10.0	8.0	8.8	7.2	4.7	5.8
8	16.7	12.8	14.5	13.9	12.7	13.3	10.3	9.0	9.6	6.8	5.0	5.7
9	15.5	11.6	13.4	12.7	10.8	11.7	9.9	8.9	9.4	6.0	4.0	5.0
10	15.0	11.7	13.3	12.0	10.2	10.9	10.4	8.1	9.8	5.7	4.4	5.0
11	15.6	11.8	13.7	10.4	9.3	9.8	10.0	6.2	8.8	5.8	5.3	5.6
12	16.6	12.9	14.6	9.9	8.9	9.5	9.1	5.4	7.4	5.9	5.4	5.6
13	17.4	13.4	15.3	10.9	8.8	9.7	8.5	6.7	7.7	6.3	5.3	5.7
14	18.3	14.9	16.4	11.4	8.3	9.7	8.8	8.0	8.4	7.4	5.7	6.4
15	18.1	16.5	17.2	---	---	---	8.2	6.9	7.4	7.1	5.5	6.3
16	18.4	16.6	17.4	---	---	---	7.6	4.0	6.6	6.4	5.4	5.9
17	19.1	17.2	17.8	11.1	8.8	10.0	4.2	2.6	3.4	6.0	5.6	5.8
18	19.1	16.2	17.5	9.7	8.2	9.1	6.6	3.2	4.9	6.0	5.5	5.7
19	20.1	15.9	17.8	10.7	8.6	9.6	6.6	4.7	5.6	5.5	4.6	5.1
20	17.7	15.4	16.7	9.9	8.0	8.9	7.8	6.6	7.3	5.3	3.4	4.3
21	17.0	15.4	16.3	10.9	7.9	9.8	7.8	6.0	7.1	5.4	3.5	4.3
22	18.0	15.8	16.7	12.2	10.6	11.4	7.5	6.0	6.8	6.1	3.6	4.6
23	19.3	16.5	17.7	11.8	11.4	11.7	6.7	5.7	6.2	5.6	4.3	4.9
24	20.8	16.5	18.5	11.4	10.5	11.0	5.9	4.0	5.1	6.1	4.7	5.3
25	19.6	17.5	18.4	10.5	9.5	10.0	4.0	2.7	3.1	6.1	3.8	4.8
26	18.8	17.0	17.7	10.2	9.0	9.6	4.3	2.2	2.7	6.8	4.3	5.5
27	19.1	17.1	17.9	10.2	9.0	9.5	5.1	3.9	4.5	7.3	5.8	6.5
28	20.5	16.7	18.4	10.2	8.8	9.5	6.6	4.0	5.2	6.7	5.8	6.3
29	19.2	18.0	18.4	10.3	8.6	9.3	4.7	3.7	4.3	8.6	6.5	7.4
30	19.3	17.8	18.4	9.4	7.5	8.6	4.0	2.0	2.9	8.6	6.8	7.7
31	---	---	---	---	---	---	2.2	1.4	1.8	8.1	7.1	7.7
MONTH	---	---	---	---	---	---	---	---	---	8.6	2.0	5.6

07060500 WHITE RIVER AT CALICO ROCK--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	5.8	6.6	7.0	6.6	6.8	---	---	---	18.1	14.3	15.8
2	6.7	5.3	5.9	8.8	6.7	7.6	12.0	10.5	11.1	17.7	14.0	15.7
3	6.0	5.0	5.5	8.4	7.2	7.7	15.2	9.1	11.7	17.8	12.0	14.7
4	7.6	5.7	6.7	9.2	6.9	7.9	14.3	10.5	12.3	18.7	15.5	17.6
5	8.5	6.2	7.3	10.4	6.6	8.5	17.1	10.9	13.6	15.5	13.1	14.0
6	8.0	6.8	7.4	8.9	6.8	7.5	18.4	12.3	15.6	20.6	14.8	18.1
7	8.3	7.3	7.8	8.3	7.3	7.8	16.7	13.2	15.3	---	---	---
8	11.0	8.3	9.7	8.2	7.4	7.8	16.0	12.9	14.8	---	---	---
9	11.6	8.7	10.8	8.3	7.1	7.7	18.6	12.8	15.2	---	---	---
10	8.7	6.5	7.6	8.3	6.9	7.6	14.4	12.1	13.0	20.4	13.9	16.7
11	6.5	5.1	5.5	9.2	7.2	8.3	13.0	11.3	12.3	15.5	11.8	13.9
12	6.1	5.3	5.7	10.1	7.8	9.1	15.2	10.5	13.0	24.6	14.9	20.4
13	6.8	6.1	6.5	9.8	8.3	9.1	16.4	10.4	13.7	23.8	20.0	22.0
14	9.4	6.8	7.8	9.7	8.0	9.0	16.4	13.9	14.9	25.1	20.5	22.8
15	10.0	9.4	9.7	9.0	7.7	8.5	16.7	13.6	14.9	24.5	20.1	22.7
16	10.0	8.8	9.3	8.9	7.0	7.8	15.2	12.5	13.5	23.9	17.6	21.0
17	8.8	7.6	8.1	8.5	6.4	7.5	13.6	10.1	12.1	22.1	15.5	19.3
18	7.6	6.9	7.1	9.2	7.6	8.5	16.3	11.6	13.8	21.4	16.8	19.5
19	8.3	6.7	7.5	9.2	8.1	8.7	15.1	12.9	13.8	22.8	19.4	21.3
20	9.2	7.7	8.4	9.6	7.7	8.8	13.9	12.8	13.1	22.7	20.7	21.7
21	9.5	7.9	9.1	10.8	8.6	9.7	15.5	13.8	14.7	22.1	19.5	20.5
22	7.9	6.4	6.7	11.5	9.5	10.4	15.3	12.8	14.3	21.0	18.1	19.6
23	6.4	6.1	6.3	12.7	9.2	11.2	16.0	13.3	15.0	22.3	18.9	20.5
24	8.5	6.1	6.9	12.2	10.7	11.6	13.3	11.1	12.0	21.0	19.3	20.1
25	9.5	7.7	8.3	11.0	9.1	10.1	14.3	10.2	12.4	19.3	17.4	18.6
26	9.5	7.8	8.3	11.2	8.2	9.7	17.8	13.4	15.1	17.4	12.3	15.4
27	8.4	7.7	8.0	11.3	9.0	10.0	---	---	---	21.3	16.8	19.0
28	8.2	6.8	7.4	9.8	8.7	9.3	19.4	12.8	16.0	22.6	20.2	21.2
29	---	---	---	8.7	7.9	8.3	22.2	17.8	19.9	22.3	20.8	21.6
30	---	---	---	8.7	7.7	8.1	21.9	16.0	19.5	21.6	19.9	20.6
31	---	---	---	10.3	7.7	9.1	---	---	---	21.9	19.9	20.8
MONTH	11.6	5.0	7.6	12.7	6.4	8.7	---	---	---	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.8	19.3	21.5	21.3	14.5	17.6	13.3	10.9	12.1	21.8	15.4	18.1
2	25.8	22.1	23.6	24.1	16.7	19.9	13.7	10.6	11.9	21.9	18.2	20.3
3	23.6	19.3	21.6	23.3	15.9	19.1	12.2	10.3	11.2	22.1	17.3	20.3
4	24.0	18.9	21.0	20.8	13.4	17.0	14.4	11.3	12.6	23.5	20.6	22.3
5	21.6	13.6	16.8	20.7	13.3	17.7	18.5	12.0	15.2	23.5	13.0	15.7
6	---	---	---	19.2	12.1	15.6	17.4	12.9	15.0	17.5	13.5	15.3
7	23.1	14.4	18.2	22.1	15.0	18.3	14.4	10.4	12.0	14.3	11.6	13.2
8	25.3	22.9	23.9	20.3	16.1	18.6	13.0	10.7	11.8	14.8	12.3	13.5
9	26.4	24.2	25.1	20.5	14.5	17.8	13.0	10.5	11.6	17.5	13.2	15.2
10	25.0	22.5	24.1	15.2	11.8	12.9	13.6	10.6	12.0	19.5	15.5	17.4
11	23.7	19.5	21.8	20.8	12.9	16.4	18.7	13.6	16.0	21.4	16.3	18.7
12	22.1	15.9	18.0	21.0	14.7	16.1	20.4	17.3	18.8	18.9	12.4	15.4
13	17.4	15.7	16.6	19.1	14.6	16.2	24.4	16.0	21.2	19.2	12.4	15.8
14	20.0	16.0	17.8	15.0	12.1	13.9	19.9	14.3	16.9	17.7	12.4	15.0
15	---	---	---	20.6	14.4	17.4	21.9	16.4	19.0	17.4	12.2	14.9
16	---	---	---	23.1	19.0	21.1	24.7	20.6	22.3	18.5	14.3	16.5
17	---	---	---	22.9	14.5	17.7	23.3	17.7	19.9	18.5	13.3	15.3
18	23.3	17.2	21.1	15.3	12.1	13.6	18.8	16.6	17.8	18.1	12.9	14.2
19	20.0	16.8	18.1	14.2	11.1	12.7	21.8	16.5	19.2	16.6	13.6	14.8
20	21.4	15.6	18.4	15.4	11.5	13.7	22.0	16.1	19.8	16.6	12.6	14.7
21	21.9	17.1	19.7	15.4	11.1	13.3	20.2	14.1	17.5	16.7	13.7	15.3
22	19.8	15.3	17.6	19.7	14.3	16.8	14.1	12.1	13.3	18.3	13.4	15.9
23	22.3	17.6	20.0	19.7	12.5	15.8	13.2	11.6	12.7	19.2	15.8	17.2
24	25.4	21.0	23.1	12.6	10.4	11.3	13.4	11.1	12.1	18.4	16.3	17.1
25	26.6	22.1	24.5	12.3	9.9	11.1	14.1	11.9	12.9	17.0	14.8	15.8
26	25.2	14.7	18.3	12.5	10.1	11.2	15.0	13.0	13.9	15.4	13.7	14.5
27	19.9	14.9	17.2	13.0	11.4	12.4	14.2	12.6	13.6	17.0	13.1	14.9
28	21.8	19.5	20.5	13.4	11.3	12.6	16.0	11.4	13.6	15.3	13.4	14.1
29	20.9	13.8	17.3	20.2	13.2	16.6	16.8	11.4	13.8	16.1	12.9	14.4
30	18.7	13.2	15.1	22.4	13.9	18.1	21.5	12.6	16.2	18.4	14.0	15.9
31	---	---	---	17.0	11.4	13.0	20.4	14.6	16.2	---	---	---
MONTH	---	---	---	24.1	9.9	15.7	24.7	10.3	15.2	23.5	11.6	16.1

07060710 NORTH SYLAMORE CREEK NEAR FIFTY-SIX
(Hydrologic benchmark station)

LOCATION.--Lat 35°59'30", long 92°12'50", in SW1/4NW1/4 sec.25, T.16 N., R.12 W., Stone County, Hydrologic Unit 11010004, on right bank 30 ft upstream from bridge on Ozark National Forest service road, 200 ft downstream from Gunner Creek, 2.7 mi north of Fifty-Six, and 7.0 mi upstream from South Sylamore Creek.

DRAINAGE AREA.--58.1 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 434.99 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	7.3	12	3.8	36	43	25	7.4	7.3	10	4.1	3.0
2	2.8	6.6	11	3.4	24	35	26	7.3	6.1	7.7	3.7	2.7
3	2.7	5.1	9.5	3.2	18	29	25	7.0	5.5	5.6	3.5	2.5
4	2.7	4.2	8.3	3.4	15	29	22	6.7	5.5	4.8	3.3	2.3
5	2.9	4.0	7.2	3.9	13	25	19	7.6	5.3	7.0	3.1	2.3
6	4.0	39	7.2	5.0	12	22	18	8.2	5.0	11	3.0	2.2
7	3.6	36	7.3	7.4	11	19	18	9.8	4.9	8.0	3.2	2.1
8	3.6	16	6.8	10	9.8	20	17	8.9	4.8	5.8	4.0	3.0
9	3.5	11	6.2	12	12	23	15	7.5	4.6	4.8	4.5	9.9
10	3.4	9.7	5.9	10	14	22	14	6.6	4.4	4.3	9.9	e5.0
11	3.3	7.0	5.9	12	13	20	13	7.8	4.2	4.0	17	e4.0
12	3.3	5.6	5.8	20	12	20	13	9.8	4.2	3.8	10	e3.1
13	3.3	11	8.0	27	101	19	11	7.5	4.1	4.7	15	e2.9
14	3.2	12	7.5	43	371	18	11	6.5	5.1	5.0	8.3	2.8
15	3.2	8.5	7.3	46	1290	20	12	6.1	52	4.2	5.6	2.8
16	3.3	5.7	9.4	30	1230	24	12	5.7	29	3.7	4.3	2.6
17	3.7	4.0	15	23	368	22	11	5.5	14	3.3	3.6	2.5
18	3.7	3.1	12	19	163	19	9.9	5.0	9.4	3.0	3.3	3.2
19	3.5	2.7	7.3	17	100	18	9.6	5.0	7.5	2.9	3.1	15
20	3.4	2.4	5.5	14	68	17	9.6	7.0	6.6	2.8	3.0	8.6
21	3.2	2.0	4.9	12	46	16	9.3	15	6.7	2.9	2.9	5.3
22	3.2	1.8	4.3	11	36	15	9.2	12	6.8	2.9	2.8	4.0
23	3.3	2.0	4.0	9.8	26	14	11	8.3	6.0	2.9	2.6	32
24	3.5	30	3.8	9.1	180	13	12	6.9	5.2	3.0	2.4	68
25	3.6	160	3.7	8.5	335	13	11	6.1	4.7	7.9	2.2	25
26	3.8	81	4.3	7.8	135	12	9.8	5.7	4.5	5.2	2.2	e11
27	3.9	45	4.5	7.5	84	11	9.1	5.3	4.3	7.6	2.3	e6.8
28	3.8	24	4.6	7.0	57	11	8.6	5.2	4.3	6.1	2.3	e4.5
29	4.6	16	4.7	42	---	14	8.1	5.3	6.1	4.8	2.3	e3.1
30	14	12	4.5	97	---	18	7.8	7.4	7.1	6.0	2.2	e2.6
31	13	---	4.0	59	---	22	---	9.4	---	5.1	3.0	---
TOTAL	125.9	574.7	212.4	583.8	4779.8	623	407.0	229.5	245.2	160.8	142.7	244.8
MEAN	4.06	19.2	6.85	18.8	171	20.1	13.6	7.40	8.17	5.19	4.60	8.16
MAX	14	160	15	97	1290	43	26	15	52	11	17	68
MIN	2.7	1.8	3.7	3.2	9.8	11	7.8	5.0	4.1	2.8	2.2	2.1
AC-FT	250	1140	421	1160	9480	1240	807	455	486	319	283	486
CFSM	.07	.33	.12	.32	2.94	.35	.23	.13	.14	.09	.08	.14
IN.	.08	.37	.14	.37	3.06	.40	.26	.15	.16	.10	.09	.16

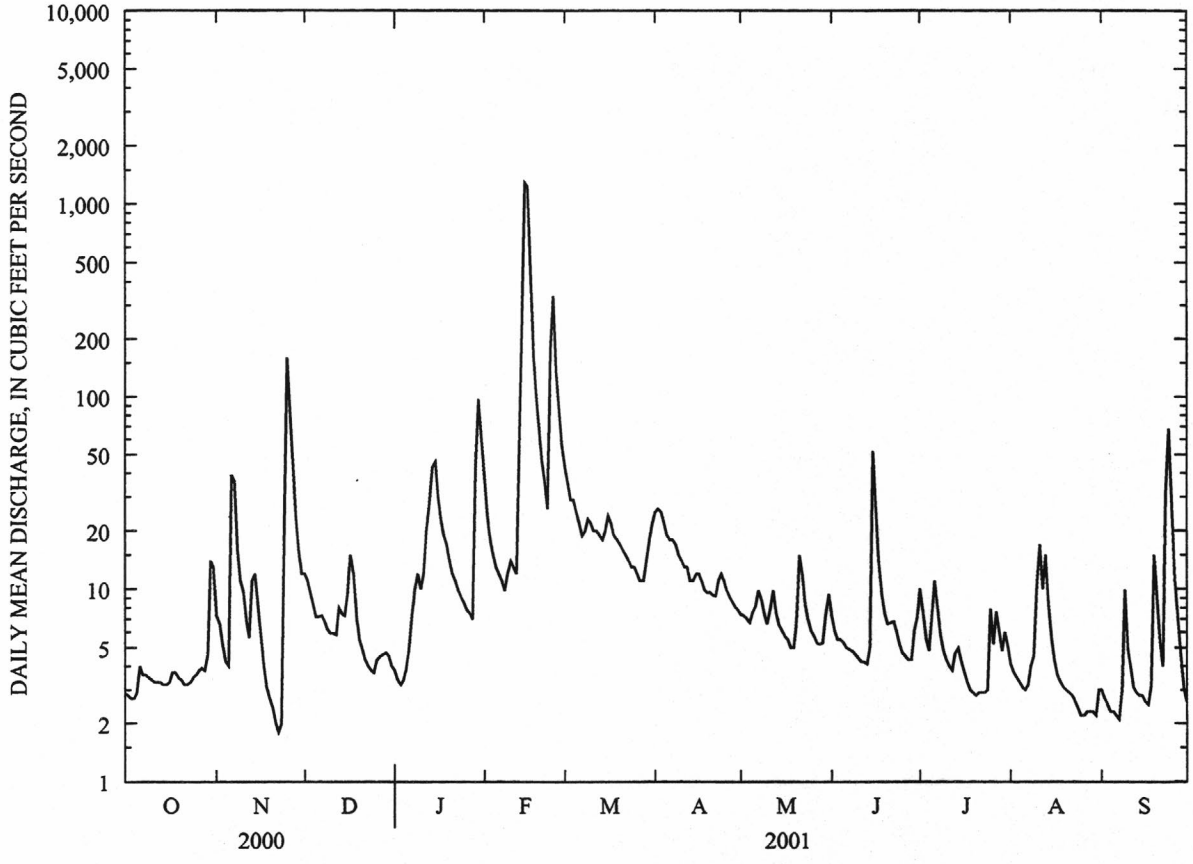
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	17.0	47.7	68.3	42.6	65.3	92.2	103	68.9	22.5	9.98	6.25	11.3
MAX	99.3	232	501	171	295	296	493	230	102	32.8	16.6	56.7
(WY)	1974	1997	1983	1993	1989	1975	1973	1990	1974	1992	1981	1968
MIN	3.84	4.10	3.57	4.43	9.16	9.15	12.9	7.40	6.45	3.89	3.06	2.45
(WY)	1967	1990	1990	1981	1972	1972	1971	2001	1966	1980	1987	1987

07060710 NORTH SYLAMORE CREEK NEAR FIFTY-SIX--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	10869.8		8329.6			
ANNUAL MEAN	29.7		22.8		45.6	
HIGHEST ANNUAL MEAN					102	1973
LOWEST ANNUAL MEAN					15.8	1967
HIGHEST DAILY MEAN	3820	May 27	1290	Feb 15	11500	Dec 3 1982
LOWEST DAILY MEAN	1.3	Sep 3	1.8	Nov 22	1.3	Sep 11 1995
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 1	2.3	Aug 24	1.4	Sep 1 2000
MAXIMUM PEAK FLOW			2670	Feb 15	[a]25200	Dec 3 1982
MAXIMUM PEAK STAGE			7.54	Feb 15	20.60	Dec 3 1982
INSTANTANEOUS LOW FLOW			1.4	Nov 22	1.0	Sep 3 2000
ANNUAL RUNOFF (AC-FT)	21560		16520		33050	
ANNUAL RUNOFF (CFSM)	.51		.39		.79	
ANNUAL RUNOFF (INCHES)	6.96		5.33		10.67	
10 PERCENT EXCEEDS	35		28		85	
50 PERCENT EXCEEDS	6.0		7.2		12	
90 PERCENT EXCEEDS	2.3		2.9		3.9	

[a]From rating curve extended above 3,700 ft^3/s on basis of step-backwater computations
[e]Estimated



07060710 NORTH SYLAMORE CREEK NEAR FIFTY-SIX--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
11...	1200	80020	80513	3.1	750	9.6	88	8.6	287	10.5
NOV										
08...	1115	80020	80513	14	765	10.3	97	8.3	280	12.7
DEC										
19...	1305	80020	80513	6.8	758	8.2	58	7.2	262	1.1
FEB										
08...	1030	80020	80513	10	767	9.4	85	8.0	259	11.2
MAR										
06...	1530	80020	80513	22	771	10.8	96	8.4	231	10.5
APR										
18...	1010	80020	80513	9.8	778	10.2	91	8.0	276	11.1
MAY										
24...	1025	80020	80513	6.8	754	7.0	74	7.8	329	17.1
JUN										
27...	0640	80020	80513	4.5	774	7.2	81	8.1	266	21.9
JUL										
18...	0830	80020	80513	3.1	768	5.5	66	7.9	267	24.7
AUG										
15...	0915	80020	80513	5.6	754	6.3	73	7.7	276	21.8
SEP										
12...	0845	80020	80513	E3.1	758	7.2	78	8.2	280	18.9

DATE	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT										
11...	21	150	46.7	7.62	.77	.0	1.4	2	128	127
NOV										
08...	3	140	45.6	6.48	.92	.0	1.2	2	138	138
DEC										
19...	--	140	44.2	6.57	.63	.0	1.3	2	138	138
FEB										
08...	8	130	42.8	6.19	.62	.0	1.0	2	125	125
MAR										
06...	8	120	38.2	5.26	.72	.0	.9	2	109	109
APR										
18...	13	140	45.9	6.30	.69	.0	1.3	2	129	128
MAY										
24...	3	140	46.0	6.23	.76	.0	1.4	2	138	138
JUN										
27...	10	140	44.0	6.79	.82	.1	1.4	2	127	128
JUL										
18...	4	140	42.8	6.95	.77	.1	1.4	2	130	131
AUG										
15...	--	140	43.9	7.07	.73	.0	1.2	2	155	156
SEP										
12...	11	140	44.6	7.28	.86	.0	1.3	2	130	130

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS DISSOLVED (MG/L) (70301)
OCT										
11...	155	.0	2.1	<.2	7.2	4.3	.22	1.36	162	146
NOV										
08...	168	.0	2.1	<.2	7.3	5.6	.21	5.97	158	152
DEC										
19...	168	.0	2.0	<.2	5.9	5.9	.21	2.83	154	149
FEB										
08...	152	.0	1.9	<.2	4.5	5.9	.20	3.92	145	138
MAR										
06...	133	.0	1.6	<.2	5.3	6.0	.17	7.54	127	124
APR										
18...	156	.0	1.9	<.2	6.1	5.3	.21	4.07	154	144
MAY										
24...	168	.0	1.7	<.2	7.1	3.9	.21	2.86	156	150
JUN										
27...	156	.0	1.7	<.2	8.3	4.2	.20	1.79	147	144
JUL										
18...	160	.0	2.0	<.2	8.6	3.8	.21	1.31	156	145
AUG										
15...	190	.0	1.6	<.2	8.4	3.5	.19	2.09	138	160
SEP										
12...	159	.0	1.8	<.2	8.4	3.1	.21	--	151	146

07060710 NORTH SYLAMORE CREEK NEAR FIFTY-SIX--CONTINUED

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 11...	<.041	<.10	<.08	--	E.035	<.006	--	<.006	<.018	<.004
NOV 08...	<.041	.10	.12	.19	.089	<.006	.21	<.006	<.018	<.004
DEC 19...	<.041	E.06	E.06	--	.066	<.006	--	<.006	<.018	<.004
FEB 08...	<.041	E.08	.08	--	.071	<.006	.15	<.006	<.018	<.004
MAR 06...	<.041	<.10	E.08	--	.072	<.006	--	<.006	<.018	<.004
APR 18...	<.041	<.10	<.08	--	E.031	<.006	--	<.006	<.018	E.002
MAY 24...	<.040	<.10	E.05	--	.096	<.006	--	<.006	<.020	<.004
JUN 27...	<.040	E.06	.08	--	.053	E.003	.13	<.006	<.020	E.003
JUL 18...	<.040	E.08	.09	--	.057	<.006	.15	<.006	<.020	<.004
AUG 15...	<.040	E.07	.10	--	E.032	<.006	--	<.006	<.020	E.002
SEP 12...	<.040	E.06	E.07	--	.057	<.006	--	<.006	<.020	E.003

DATE	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)
OCT 11...	E2	E10	E16	<10	E1.8	--	--	--	--	--
NOV 08...	29	20	E100	<10	<3.2	--	--	--	--	--
DEC 19...	E11	E6	E1	<10	<3.2	--	--	--	--	--
FEB 08...	E1	<1	E2	<10	<3.2	<.002	<.004	<.002	<.005	<.007
MAR 06...	E5	E1	E2	<10	3.5	<.002	<.004	<.002	<.005	<.007
APR 18...	E8	22	23	<10	3.6	<.002	<.004	<.002	<.005	<.007
MAY 24...	23	36	77	<10	E2.8	<.002	<.004	<.002	<.005	E.003
JUN 27...	29	39	270	<10	4.6	<.002	<.004	<.002	<.005	<.007
JUL 18...	37	51	350	<10	3.6	<.002	<.004	<.002	<.005	<.007
AUG 15...	36	33	60	<10	E2.0	<.002	<.004	<.002	<.005	<.007
SEP 12...	23	25	120	<10	3.4	<.002	<.004	<.002	<.005	<.007

DATE	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)
FEB 08...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
MAR 06...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
APR 18...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
MAY 24...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
JUN 27...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
JUL 18...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
AUG 15...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005
SEP 12...	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005	<.005

07060710 NORTH SYLAMORE CREEK NEAR FIFTY-SIX--CONTINUED

DATE	TIME	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
FEB 08...	1030	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
MAR 06...	1530	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
APR 18...	1010	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
MAY 24...	1025	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
JUN 27...	0640	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
JUL 18...	0830	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
AUG 15...	0915	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
SEP 12...	0845	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050

DATE	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
FEB 08...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAR 06...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
APR 18...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAY 24...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JUN 27...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JUL 18...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
AUG 15...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
SEP 12...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
FEB 08...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAR 06...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
APR 18...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
MAY 24...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUN 27...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
JUL 18...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
AUG 15...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017
SEP 12...	<.011	<.015	<.004	<.010	<.011	<.023	<.011	<.016	<.034	<.017

07060710 NORTH SYLAMORE CREEK NEAR FIFTY-SIX--CONTINUED

DATE	TIME	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
11...	1200	--	--	--	92	55	.46
NOV							
08...	1115	--	--	--	93	26	.98
DEC							
19...	1305	--	--	--	97	56	1.0
FEB							
08...	1030	<.005	<.002	<.009	88	36	.97
MAR							
06...	1530	<.005	<.002	<.009	100	13	.77
APR							
18...	1010	<.005	<.002	<.009	85	25	.66
MAY							
24...	1025	<.005	<.002	<.009	83	40	.73
JUN							
27...	0640	<.005	<.002	<.009	78	49	.60
JUL							
18...	0830	<.005	<.002	<.009	89	24	.20
AUG							
15...	0915	<.005	<.002	<.009	86	30	.45
SEP							
12...	0845	<.005	<.002	<.009	91	42	--

Remark codes used in this report:
< -- Less than
E -- Estimated value

07061000 WHITE RIVER AT BATESVILLE

LOCATION.--Lat 35°45'35", long 91°38'28", in NE1/4NW1/4 sec.21, T.13 N., R.6 W., Independence County, Hydrologic Unit 11010004, at bridge on U.S. Highway 167 in Batesville.

DRAINAGE AREA.--11,070 mi^2.

PERIOD OF RECORD.--July 1937 to September 1958, October 1986 to September 1994, October 2000 to current year. Stage only station 1995-2000. Gage-height records collected at lower lock gage since 1904 are published in reports of National Weather Service.

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 31.1 ft, Feb. 1, 1916, at former site, observed by U.S. Army Corps of Engineers (discharge 382,000 ft^3/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	1130	2740	3240	8170	25000	3920	2320	1410	4490	12200	2650
2	1530	2340	2430	4030	8020	15200	2620	4860	1470	3240	13100	1360
3	2510	2200	2080	8760	12000	11300	4100	5050	1350	2840	16700	1660
4	7560	1350	1790	12200	10200	13000	4500	2840	1360	4470	13200	1390
5	5650	1660	2350	7420	5190	10200	5480	2720	2330	3410	8520	1720
6	3720	1320	2490	3510	3990	10900	2830	2630	3900	4440	4790	5930
7	2470	1570	3420	2010	6840	14500	5520	2020	3470	4540	7840	7910
8	1500	3000	4510	1470	5870	14600	4110	3660	2330	4050	11200	12500
9	1310	7050	4940	1320	4860	13700	5950	2810	1580	4970	11300	9640
10	1600	4690	3670	3930	4360	12200	5960	2710	1390	6240	13300	4780
11	2310	3340	2800	7470	4230	13800	7970	3650	2700	8470	9550	2790
12	1700	2540	2230	5730	4000	8220	6970	3560	2870	3380	4020	4190
13	1840	2290	11100	3500	6920	7780	4840	1920	5670	6100	2070	5990
14	1900	2150	10300	2730	14000	9350	3640	1630	5230	4500	2880	5950
15	1200	2460	7230	3170	29600	8460	4150	1620	6160	6310	4690	5830
16	1340	4150	4030	3470	48500	7690	4550	2280	5410	2290	2210	4790
17	1510	4030	2580	3970	59000	8960	4780	3400	3840	1600	1670	3140
18	1470	2590	3810	3820	42400	9360	3900	3340	3000	7450	4020	3460
19	1170	4470	7670	3740	21300	8420	2650	2600	5410	11000	3730	6490
20	878	3390	14000	3800	16800	9190	5210	2110	5090	9670	2050	4330
21	1480	2800	12700	3610	11200	8300	3680	1860	2830	8270	2810	4820
22	1140	7340	12300	3570	14600	6560	4310	1630	4060	8080	7070	3690
23	1190	8070	13100	3190	21400	5400	4750	1600	2430	3750	11200	3890
24	1280	4210	6700	4280	20600	4950	3570	1480	1670	9000	11700	2930
25	883	3840	2570	3020	20700	4890	7830	1430	1420	11700	10700	2850
26	1190	3460	2780	2720	27400	4480	4600	2770	1890	11400	8550	3080
27	1620	5350	2150	7270	23900	3520	3580	2820	5990	9330	7580	4070
28	1180	4870	2230	4600	20100	4480	3260	1620	2560	7550	8550	3270
29	869	3530	2170	3450	---	4860	2270	1430	1930	6950	4940	6260
30	1310	2770	4060	4540	---	5010	1670	1500	5730	3170	3600	3680
31	1250	---	3000	5250	---	4670	---	1490	---	6580	3260	---
TOTAL	58260	103960	159930	134790	476150	288950	133170	77360	96480	189240	229000	135040
MEAN	1879	3465	5159	4348	17010	9321	4439	2495	3216	6105	7387	4501
MAX	7560	8070	14000	12200	59000	25000	7970	5050	6160	11700	16700	12500
MIN	869	1130	1790	1320	3990	3520	1670	1430	1350	1600	1670	1360
AC-FT	115600	206200	317200	267400	944400	573100	264100	153400	191400	375400	454200	267900

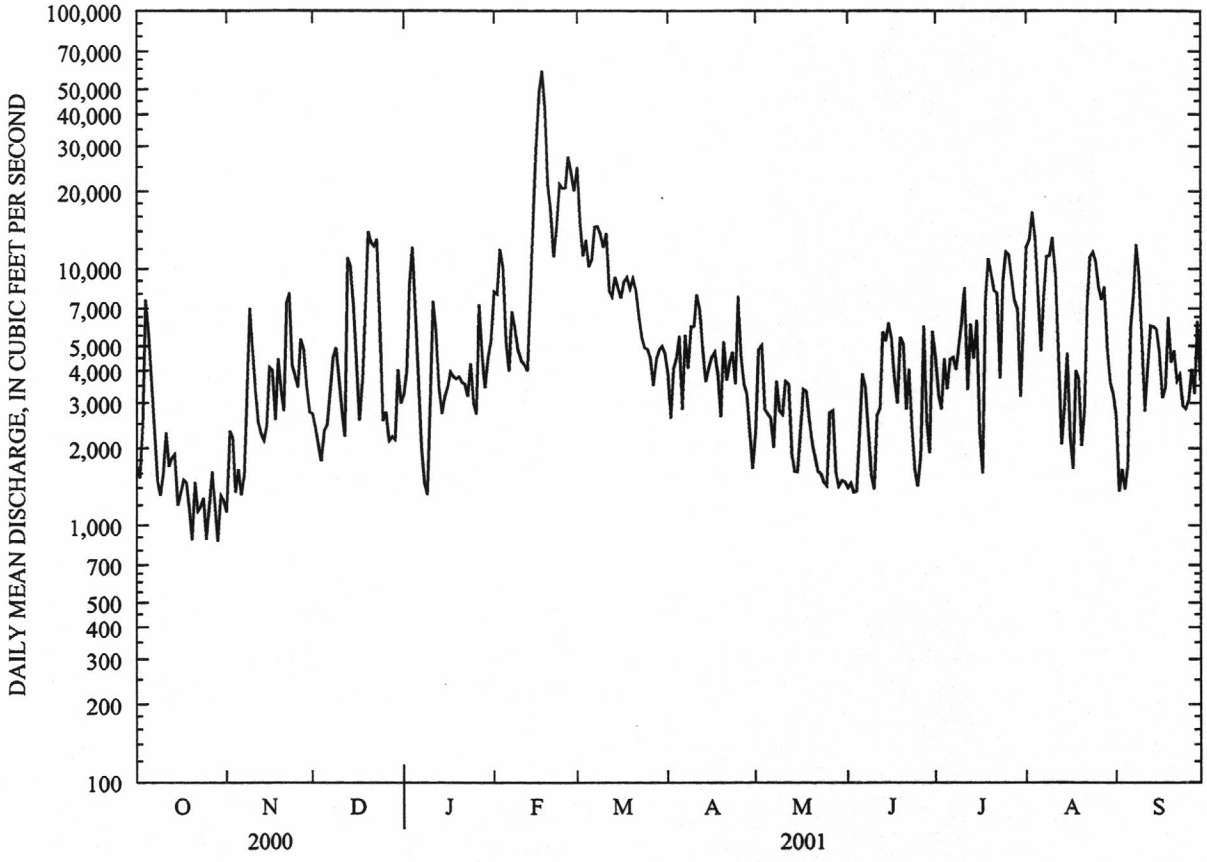
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-58, 1987-94, 2001, BY WATER YEAR (WY)

MEAN	5303	8632	11860	14040	17010	20390	22020	20050	14030	10740	7666	6210
MAX	15350	28600	32380	45000	44790	72740	100400	71230	53690	29620	25860	24680
(WY)	1994	1947	1943	1949	1949	1945	1945	1943	1945	1957	1957	1957
MIN	1224	1587	1640	2454	4974	4812	4439	2495	3216	1893	1504	912
(WY)	1955	1955	1944	1945	1943	1947	2001	2001	2001	1944	1943	1943

07061000 WHITE RIVER AT BATESVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1943-58, 1987-94, 2001	
ANNUAL TOTAL	2082330			
ANNUAL MEAN	5705		[a]13080	
HIGHEST ANNUAL MEAN			26510	1945
LOWEST ANNUAL MEAN			5671	1954
HIGHEST DAILY MEAN	59000	Feb 17	303000	Apr 16 1945
LOWEST DAILY MEAN	869	Oct 29	592	Sep 28 1954
ANNUAL SEVEN-DAY MINIMUM	1150	Oct 19	709	Sep 23 1954
MAXIMUM PEAK FLOW	61300	Feb 16	324000	Apr 16 1945
MAXIMUM PEAK STAGE	14.48	Feb 16	29.43	Apr 16 1945
INSTANTANEOUS LOW FLOW	776	Oct 25	580	Sep 28 1954
ANNUAL RUNOFF (AC-FT)	4130000		9478000	
10 PERCENT EXCEEDS	11500		27200	
50 PERCENT EXCEEDS	3990		8050	
90 PERCENT EXCEEDS	1520		2320	

[a]Prior to regulation, water years 1938-42, 10,850 ft^3/s



07064000 BLACK RIVER NEAR CORNING

LOCATION.--Lat 36°24'07", long 90°32'29", in SW1/4NE1/4 sec.4, T.20 N., R.5 E., Clay County, Hydrologic Unit 11010007, near left bank on downstream side of bridge on U.S. Highway 62, 2.2 mi east of Corning, 11.9 mi downstream from Cane Creek, and at mile 152.2.

DRAINAGE AREA.--1,749 mi².

PERIOD OF RECORD.--Water years 1939-95, October 1998 to current year. Annual maximum water years 1996-98. Gage-height records collected January 1925 to December 1929 at site 7.0 mi downstream are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 272.90 ft above sea level. Prior to Nov. 5, 1953, nonrecording gage, and Nov. 5, 1953, to Oct. 9, 1957, water-stage recorder, at site 30 ft downstream at present datum.

REMARKS.--Records good. Satellite telemeter at station. Some regulation by Clearwater Lake (Missouri) since June 3, 1948, 105 mi upstream, capacity, 413,700 acre-ft.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	338	325	792	e589	1090	5790	821	647	356	336	883	349
2	294	328	833	577	925	5040	844	598	383	332	797	448
3	271	325	744	569	821	4430	819	614	387	341	968	473
4	261	325	660	561	917	4380	828	694	370	335	1110	429
5	286	328	611	547	1010	4720	1660	683	393	313	1190	382
6	411	334	582	528	1070	4930	2200	580	418	303	1180	344
7	520	337	561	520	1100	4530	1990	517	455	317	1040	323
8	565	368	527	548	1120	3940	1730	495	518	327	907	336
9	570	502	502	610	1080	3410	1650	490	556	317	789	505
10	571	904	489	606	962	2920	1630	477	557	292	654	1030
11	574	961	485	562	850	2450	1610	455	554	273	577	1130
12	578	776	481	523	805	1990	1620	437	543	272	587	899
13	582	611	500	513	781	1550	1660	427	521	274	1100	653
14	566	564	520	539	830	1400	1700	417	478	275	1750	501
15	522	544	539	637	1490	1390	1740	404	430	276	1570	425
16	493	510	572	730	2460	1370	1770	397	434	269	1140	383
17	483	499	600	712	3360	1490	1710	387	463	261	758	356
18	479	503	719	659	4350	1480	1430	377	436	267	551	336
19	482	488	e777	659	4350	1320	1200	373	386	345	451	327
20	464	445	e750	778	3750	1130	1150	416	345	653	395	311
21	413	416	e724	886	2970	993	1170	467	323	837	363	304
22	370	408	e737	893	2300	928	1130	491	331	763	355	293
23	355	404	e711	785	2170	905	1000	493	385	599	351	290
24	363	408	e698	683	2430	888	907	459	426	452	348	340
25	377	515	e685	663	2970	865	861	418	415	351	334	709
26	380	979	e672	716	4480	838	871	389	381	350	328	790
27	380	1190	e660	746	6030	813	938	369	348	618	329	594
28	375	1070	e647	753	6270	794	949	357	328	1760	325	434
29	352	806	e635	755	---	773	864	349	320	2080	333	347
30	337	680	e625	857	---	760	742	345	330	1820	333	306
31	328	---	e598	1070	---	774	---	344	---	1280	327	---
TOTAL	13340	16853	19636	20774	62741	68991	39194	14366	12570	17288	22123	14347
MEAN	430	562	633	670	2241	2226	1306	463	419	558	714	478
MAX	582	1190	833	1070	6270	5790	2200	694	557	2080	1750	1130
MIN	261	325	481	513	781	760	742	344	320	261	325	290
AC-FT	26460	33430	38950	41210	124400	136800	77740	28490	24930	34290	43880	28460

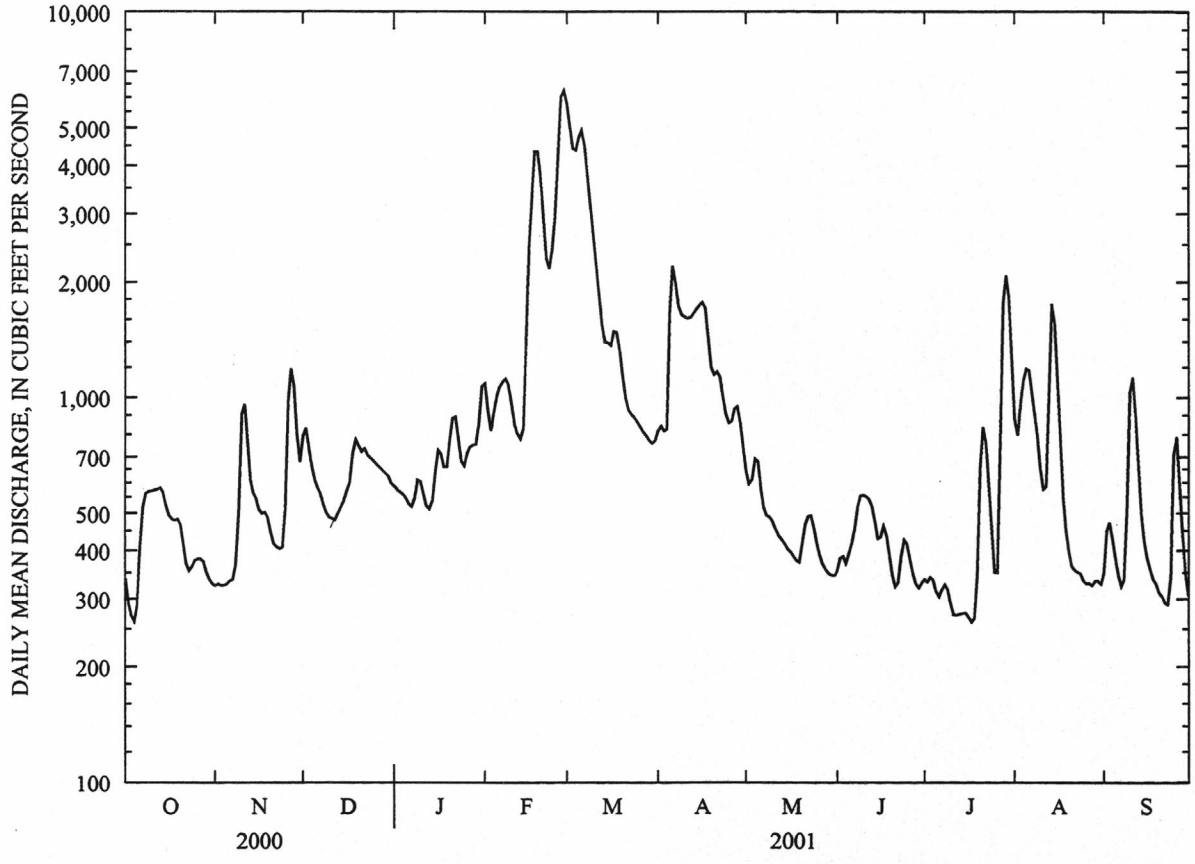
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948-95, 1999-01, BY WATER YEAR (WY)

MEAN	758	1318	2063	2574	2636	3000	3205	2666	1533	1012	710	688
MAX	2868	5220	8417	8969	7490	7308	9125	7217	3891	3858	3266	2116
(WY)	1950	1973	1983	1950	1949	1975	1973	1961	1973	1957	1957	1957
MIN	269	340	356	319	459	753	783	463	419	358	278	252
(WY)	1957	1954	1956	1956	1963	1981	1981	2001	2001	1980	1954	1954

07064000 BLACK RIVER NEAR CORNING--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1948-95, 1999-01	
ANNUAL TOTAL	368855		322223			
ANNUAL MEAN	1008		883		[a]1851	
HIGHEST ANNUAL MEAN					4014	1973
LOWEST ANNUAL MEAN					662	1954
HIGHEST DAILY MEAN	6520	Jan 6	6270	Feb 28	32000	Mar 12 1964
LOWEST DAILY MEAN	191	Sep 22	261	Oct 4	191	Sep 22 2000
ANNUAL SEVEN-DAY MINIMUM	202	Sep 18	271	Jul 12	202	Sep 18 2000
MAXIMUM PEAK FLOW			6360	Feb 27,28	[b]32500	Mar 13 1964
MAXIMUM PEAK STAGE			11.45	Feb 27,28	[c]15.23	Mar 13 1964
INSTANTANEOUS LOW FLOW			258	[d]Oct 4	191	Sep 21 2000
ANNUAL RUNOFF (AC-FT)	731600		639100		1341000	
10 PERCENT EXCEEDS	2570		1680		4100	
50 PERCENT EXCEEDS	570		572		1050	
90 PERCENT EXCEEDS	311		328		402	

[a]Prior to regulation, water years 1939-47, 1,741 ft^3/s
[b]Maximum discharge for period of record, 48,600 ft^3/s, June 13, 1945
[c]Maximum gage height for period of record, 16,92 ft, June 13, 1945
[d]Also July 17, 2001
[e]Estimated



07069000 BLACK RIVER AT POCAHONTAS

LOCATION.--Lat 36°15'14", long 90°58'12", in SW1/4SW1/4 sec.27, T.19 N., R.1 E., Randolph County, Hydrologic Unit 11010009, near right bank on downstream side of bridge on U.S. Highway 67 at Pocahontas, 2.2 mi downstream from Fourche River, 6.4 mi downstream from Current River, 18.1 mi upstream from Spring River, and at mile 90.1.

DRAINAGE AREA.--4,845 mi^2.

PERIOD OF RECORD.--January 1936 to September 1970, October 2000 to current year. Annual maximum 1971-78, 1981-94, Stage only 1995-2000.

REVISIONS.--WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 241.81 ft above sea level. Prior to July 15, 1937, nonrecording gage at site 0.3 mi upstream at same datum. July 15, 1937, to July 23, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by Clearwater Lake (Missouri), 167 mi upstream, since June 3, 1948 (capacity, 413700 acre-ft)

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915 reached a stage of 27.9 ft, from floodmarks from information by Corps of Engineers. Flood of Apr. 17, 1927, reached a stage of 25.9 ft (discharge, about 80,000 cfs).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1410	2440	1710	3370	13000	3500	2560	1710	1430	2470	1370
2	1470	1420	2250	1690	3860	12200	3450	2440	1730	1460	2300	1380
3	1440	1410	2150	1680	3760	11100	3350	2320	1770	1500	2060	1370
4	1410	1400	2100	1680	3470	10500	3310	2210	1880	1450	1840	1400
5	1390	1390	2060	1660	3200	10200	3390	2170	1890	1420	1780	1410
6	1380	1410	1980	1670	3010	9730	3920	2210	1880	1410	1820	1380
7	1400	1460	1910	1700	2910	9100	4230	2280	1970	1380	1840	1350
8	1440	1560	1860	1740	2860	8490	4270	2310	2100	1350	1860	1330
9	1500	2090	1810	1780	2830	7960	4200	2260	2030	1330	1840	1870
10	1550	2230	1790	1800	2830	7560	4080	2180	1940	1310	1800	2980
11	1570	2140	1770	1810	2860	7260	3950	2080	1860	1320	1830	3060
12	1560	2080	1750	1850	2990	7010	3820	2040	1790	1310	1860	2890
13	1480	2090	1770	1870	3140	6760	3720	1980	1730	1300	1750	2610
14	1450	2060	1920	1930	3760	6460	3670	1910	1680	1300	1960	2330
15	1450	1950	2010	2010	7500	6210	3650	1870	1810	1330	2240	2030
16	1450	1840	2090	2130	10700	6000	3700	1830	1960	1310	2280	1760
17	1450	1770	2160	2370	12000	5720	3760	1790	1860	1280	2230	1580
18	1490	1710	2150	2610	12000	5420	3920	1750	1790	1270	2080	1500
19	1540	1670	2110	2650	11100	5110	3930	1710	1700	1260	1850	1520
20	1560	1640	2070	2560	10000	4870	3800	1760	1600	1310	1620	1490
21	1530	1620	2130	2460	9030	4680	3620	1940	1530	1480	1470	1440
22	1490	1590	2090	2400	8240	4490	3460	2020	1490	1620	1370	1410
23	1450	1550	e2040	2390	7880	4220	3340	2140	1500	1680	1350	1400
24	1420	1600	e1980	2370	8070	3940	3240	2260	1510	1630	1350	1390
25	1390	2290	e1920	2290	9650	3700	3130	2200	1530	1580	1340	1370
26	1380	2810	e1870	2210	11000	3500	2990	2030	1530	1550	1340	1380
27	1380	2780	e1900	2140	12000	3350	2860	1880	1490	1610	1330	1500
28	1390	2760	1830	2110	12900	3230	2760	1790	1430	1750	1350	1570
29	1390	2730	1790	2230	---	3170	2710	1710	1410	2080	1340	1560
30	1410	2630	1730	2770	---	3330	2650	1670	1420	2620	1350	1470
31	1420	---	1710	2950	---	3510	---	1700	---	2600	1340	---
TOTAL	45120	57090	61140	65220	186920	201780	106380	63000	51520	47230	54240	51100
MEAN	1455	1903	1972	2104	6676	6509	3546	2032	1717	1524	1750	1703
MAX	1570	2810	2440	2950	12900	13000	4270	2560	2100	2620	2470	3060
MIN	1380	1390	1710	1660	2830	3170	2650	1670	1410	1260	1330	1330
AC-FT	89500	113200	121300	129400	370800	400200	211000	125000	102200	93680	107600	101400

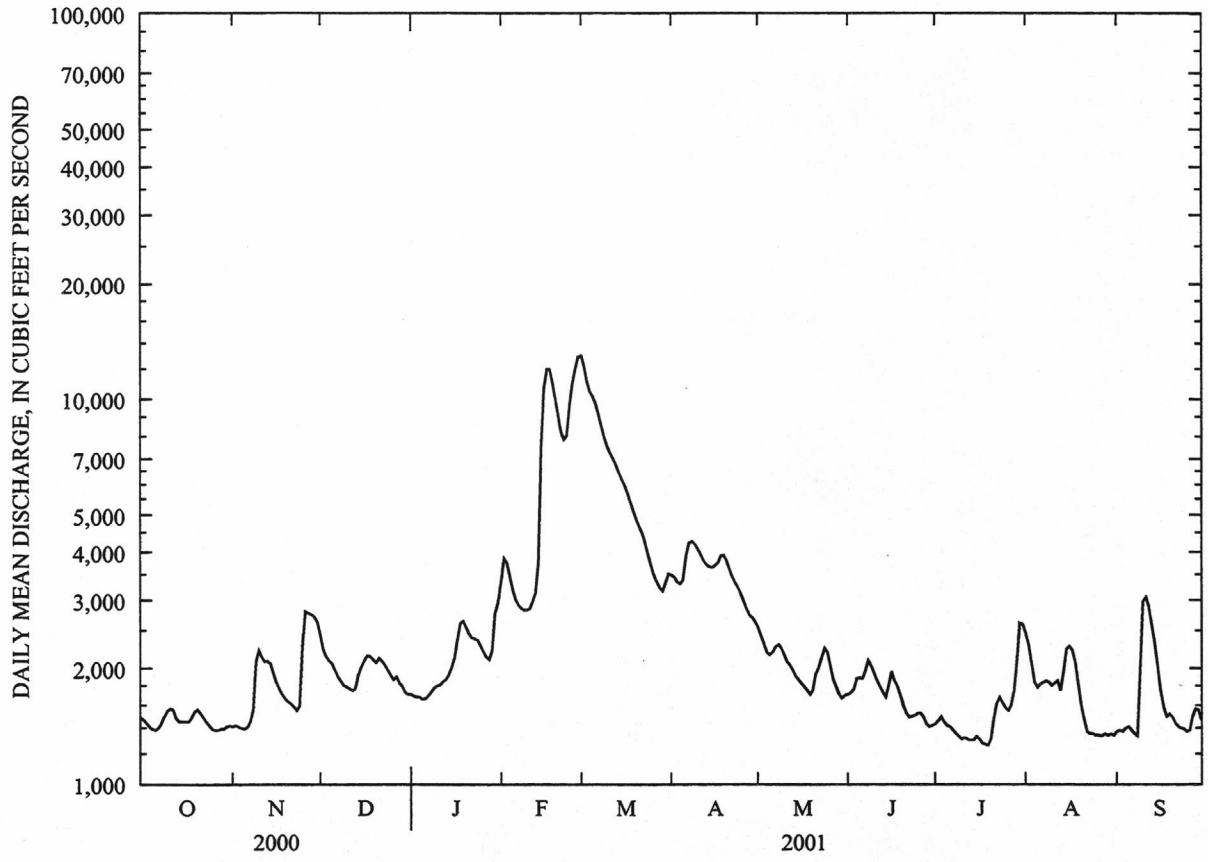
07069000 BLACK RIVER AT POCAHONTAS--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-70, 2001, BY WATER YEAR (WY)

MEAN	2422	3278	4043	6589	7687	8705	9942	8993	5622	3401	2545	2250
MAX	8203	10850	12600	25910	24220	27680	33680	22900	27300	12520	6287	4494
(WY)	1950	1952	1952	1950	1949	1945	1945	1961	1945	1951	1951	1965
MIN	1149	1390	1408	1408	1850	2161	3140	2032	1717	1524	1282	1213
(WY)	1957	1957	1956	1956	1963	1941	1956	2001	2001	2001	1954	1954

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1937-70, 2001	
ANNUAL TOTAL	990740			
ANNUAL MEAN	2714		5442	
HIGHEST ANNUAL MEAN			10820	1950
LOWEST ANNUAL MEAN			2383	1954
HIGHEST DAILY MEAN	13000	Mar 1	59600	Jun 17 1945
LOWEST DAILY MEAN	1260	Jul 19	1080	Oct 16 1956
ANNUAL SEVEN-DAY MINIMUM	1290	Jul 13	1090	Oct 15 1956
MAXIMUM PEAK FLOW	13100	Feb 28	59600	Jun 17 1945
MAXIMUM PEAK STAGE	15.37	[a]Feb 28	24.32	Jun 17 1945
INSTANTANEOUS LOW FLOW	1250	Jul 19	1080	Oct 16-19 1956
ANNUAL RUNOFF (AC-FT)	1965000		3942000	
10 PERCENT EXCEEDS	4360		11900	
50 PERCENT EXCEEDS	1890		3340	
90 PERCENT EXCEEDS	1390		1680	

[a]Also Mar. 1
[e]Estimated



07069190 MAMMOTH SPRING AT MAMMOTH SPRING

LOCATION.--Lat 36°29'53", long 91°32'08", in SE1/4SW1/4 sec.5, T.21 N., R.5 W., Fulton County, Hydrologic Unit 11010010, at north bank of spring outlet pool, 0.25 mi upstream from confluence of Mammoth Spring and Warm Fork at town of Mammoth Spring.

PERIOD OF RECORD.--Occasional low-flow measurements made beginning in 1924. February 1981 to current year. Prior to October 1992 published under Station Number 07069200.

GAGE.--Water-stage recorder. Datum of gage is 500.90 ft above sea level.

REMARKS.--Records good except estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	216	218	178	250	379	274	242	234	239	e201	e210
2	226	216	213	176	246	375	271	241	231	235	e201	e210
3	224	216	210	177	242	370	269	239	232	231	e199	e208
4	223	214	207	178	239	366	272	238	245	229	e199	e205
5	223	214	204	180	236	361	272	237	244	227	e199	e203
6	223	221	201	181	234	355	271	236	239	225	e199	e201
7	223	231	198	185	231	351	269	235	236	223	e199	e199
8	221	228	196	191	229	345	268	235	233	222	e197	e197
9	221	227	194	191	230	340	266	234	231	221	e197	e203
10	221	226	191	190	237	336	265	233	230	220	e201	e212
11	221	224	189	190	240	333	264	232	230	219	e216	e210
12	221	223	186	191	238	329	263	230	229	218	e221	e208
13	221	221	184	196	242	324	261	229	227	216	e221	e205
14	220	221	181	215	281	320	259	228	226	215	e223	e203
15	219	221	181	226	315	318	261	227	231	214	e221	e201
16	220	219	182	226	353	315	265	227	236	212	e219	e199
17	221	218	181	225	364	310	263	225	233	212	e216	e199
18	222	216	181	223	364	307	261	225	231	210	e214	e197
19	221	216	181	220	362	304	261	224	228	210	e212	e195
20	221	215	180	218	358	301	259	223	226	210	e210	e195
21	221	215	180	215	353	299	257	224	229	208	e210	e192
22	219	215	180	213	349	296	255	223	231	209	e208	e192
23	219	212	180	210	344	294	253	221	230	207	e208	e192
24	219	212	179	209	344	291	252	221	228	206	e208	e190
25	219	234	179	207	373	289	250	220	225	207	e208	e190
26	219	246	178	205	382	287	248	219	223	e214	e210	e188
27	219	241	178	203	382	284	248	219	223	e216	e210	188
28	219	234	178	201	381	283	247	218	238	e214	209	188
29	218	228	179	209	---	281	245	216	247	e212	205	188
30	217	223	178	243	---	278	244	217	243	e208	204	188
31	216	---	178	251	---	276	---	227	---	e203	203	---
TOTAL	6844	6663	5825	6323	8399	9897	7813	7065	6969	6712	6448	5956
MEAN	221	222	188	204	300	319	260	228	232	217	208	199
MAX	227	246	218	251	382	379	274	242	247	239	223	212
MIN	216	212	178	176	229	276	244	216	223	203	197	188
AC-FT	13580	13220	11550	12540	16660	19630	15500	14010	13820	13310	12790	11810

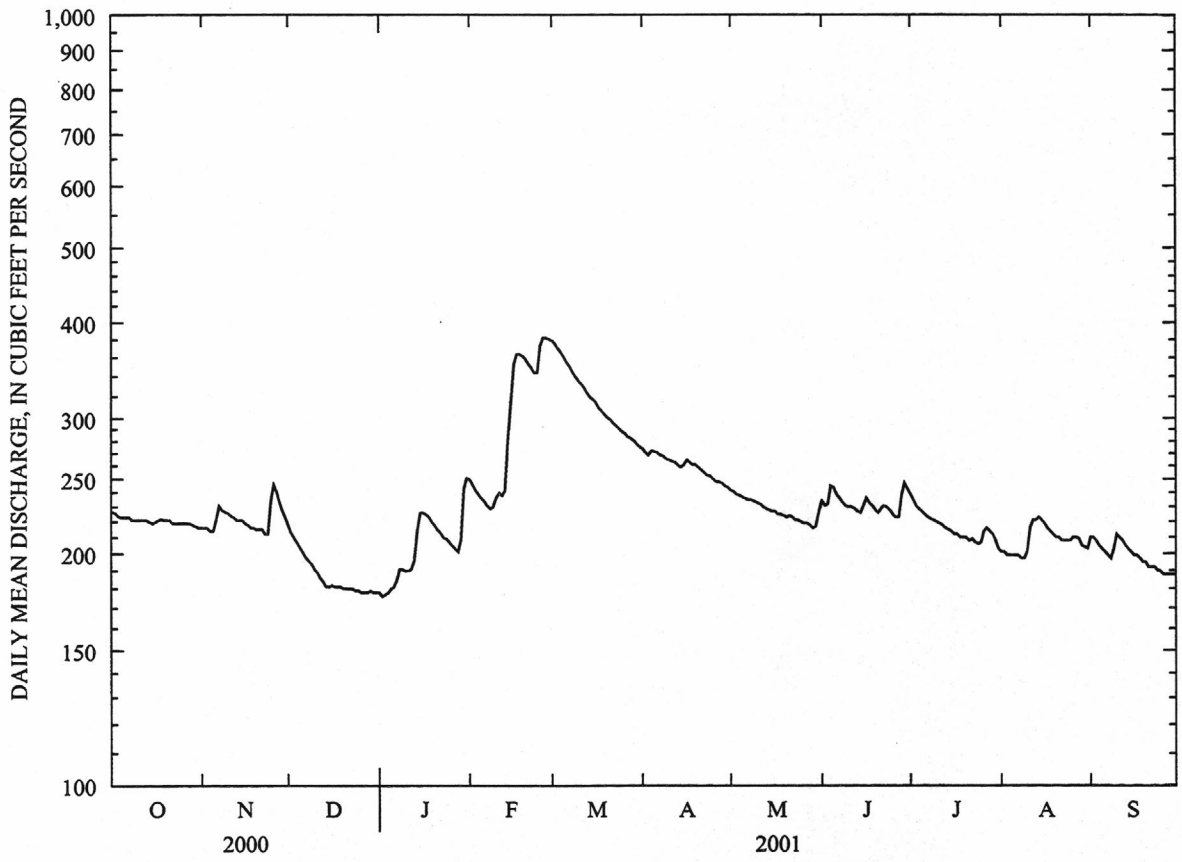
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2001, BY WATER YEAR (WY)

MEAN	274	306	350	366	392	407	431	421	386	335	298	274
MAX	399	473	523	530	540	525	565	568	501	423	358	329
(WY)	1994	1985	1985	1985	1989	1989	1991	1991	1990	1990	1990	1991
MIN	191	190	186	204	254	205	220	228	232	217	208	199
(WY)	1982	1982	1982	2001	2000	1981	1981	2001	2001	2001	2001	2001

07069190 MAMMOTH SPRING AT MAMMOTH SPRING--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1981 - 2001	
ANNUAL TOTAL	89886		84914			
ANNUAL MEAN	246		233		357	
HIGHEST ANNUAL MEAN					453	1985
LOWEST ANNUAL MEAN					233	2001
HIGHEST DAILY MEAN	402	Jun 22	382	Feb 26	689	Apr 13 1991
LOWEST DAILY MEAN	178	Dec 26	176	Jan 2	176	Jan 2 2001
ANNUAL SEVEN-DAY MINIMUM	178	Dec 25	178	Dec 28	178	Dec 28 2000
MAXIMUM PEAK FLOW			386	Feb 27	706	Apr 13 1991
MAXIMUM PEAK STAGE			4.57	Feb 27	5.13	Apr 13 1991
INSTANTANEOUS LOW FLOW			176	[a]Dec 29	176	[a]Dec 29 2000
ANNUAL RUNOFF (AC-FT)	178300		168400		258600	
10 PERCENT EXCEEDS	307		295		490	
50 PERCENT EXCEEDS	229		221		350	
90 PERCENT EXCEEDS	212		190		230	

[a]Also Dec. 30, 2000 to January 5, 2001
[e]Estimated



07072000 ELEVEN POINT RIVER NEAR RAVENDEN SPRINGS

LOCATION.--Lat 36°20'48", long 91°06'48", in SE1/4SE1/4 sec.30, T.20 N., R.1 W., Randolph County, Hydrologic Unit 11010010, on right bank at upstream side of bridge on State Highway 90, 0.9 mi downstream from Hincha Creek, 1.9 mi upstream from Eassis Creek, 6.6 mi northeast of Ravenden Springs and at mile 21.2.

DRAINAGE AREA.--1,134 mi^2.

PERIOD OF RECORD.--October 1929 to September 1933, October 1935 to September 1994, October 2000 to current year. Annual maximum water years 1995-2000. Prior to October 1949, published as "near Elevenpoint." Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1930-33, 1936-38. WSP 977: 1933, 1937-39, 1942 WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 291.98 ft above sea level. Prior to Nov. 21, 1938, nonrecording gage at present site at datum 0.04 ft higher. Nov. 21 to Dec. 11, 1938, nonrecording age at present site and datum.

REMARKS.--Records good except estimated discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	348	377	305	583	1330	665	518	369	436	440	459
2	388	368	367	300	531	1270	652	514	361	430	435	441
3	386	354	355	299	493	1210	651	504	391	420	431	439
4	383	345	348	302	468	1180	642	499	383	e412	429	436
5	384	340	346	308	445	1100	638	491	371	e402	429	433
6	403	380	344	310	432	1040	637	494	363	e392	425	432
7	385	391	342	313	419	999	630	506	356	e386	427	432
8	374	439	342	314	412	960	626	493	355	e379	446	441
9	369	411	339	315	418	925	618	477	344	e373	452	745
10	367	383	341	312	418	894	610	470	341	e366	473	514
11	367	366	342	319	439	872	607	467	340	e366	569	497
12	367	364	335	320	451	859	601	463	335	e375	516	462
13	365	369	359	321	471	841	592	445	332	e372	490	446
14	365	352	363	347	714	812	577	439	339	e366	469	437
15	364	347	344	382	2060	818	600	433	419	e368	455	430
16	375	347	344	427	2350	807	609	426	382	e367	449	424
17	394	340	336	418	1840	785	623	424	373	e368	443	421
18	383	334	333	402	1450	762	615	423	361	e390	445	423
19	371	332	330	387	1260	745	604	452	356	463	441	440
20	367	328	328	374	1150	733	601	453	351	474	436	437
21	364	326	327	363	1060	718	601	475	367	440	433	423
22	360	324	324	352	1060	706	592	454	379	433	432	418
23	358	326	318	345	1050	690	592	447	382	428	431	761
24	352	359	319	341	1160	675	598	424	384	447	431	474
25	350	454	313	335	1870	656	577	401	384	489	432	400
26	347	469	318	331	1740	636	562	384	386	462	430	389
27	345	488	321	326	1560	625	551	375	388	452	452	385
28	344	447	318	323	1420	620	538	367	393	455	446	381
29	342	415	312	382	---	629	525	359	405	475	435	376
30	361	392	309	529	---	666	521	372	439	458	433	370
31	359	---	306	600	---	676	---	382	---	447	467	---
TOTAL	11427	11238	10400	11002	27724	26239	18055	13831	11129	12891	13922	13566
MEAN	369	375	335	355	990	846	602	446	371	416	449	452
MAX	403	488	377	600	2350	1330	665	518	439	489	569	761
MIN	342	324	306	299	412	620	521	359	332	366	425	370
AC-FT	22670	22290	20630	21820	54990	52050	35810	27430	22070	25570	27610	26910
CFSM	.33	.33	.30	.31	.87	.75	.53	.39	.33	.37	.40	.40
IN.	.37	.37	.34	.36	.91	.86	.59	.45	.37	.42	.46	.45

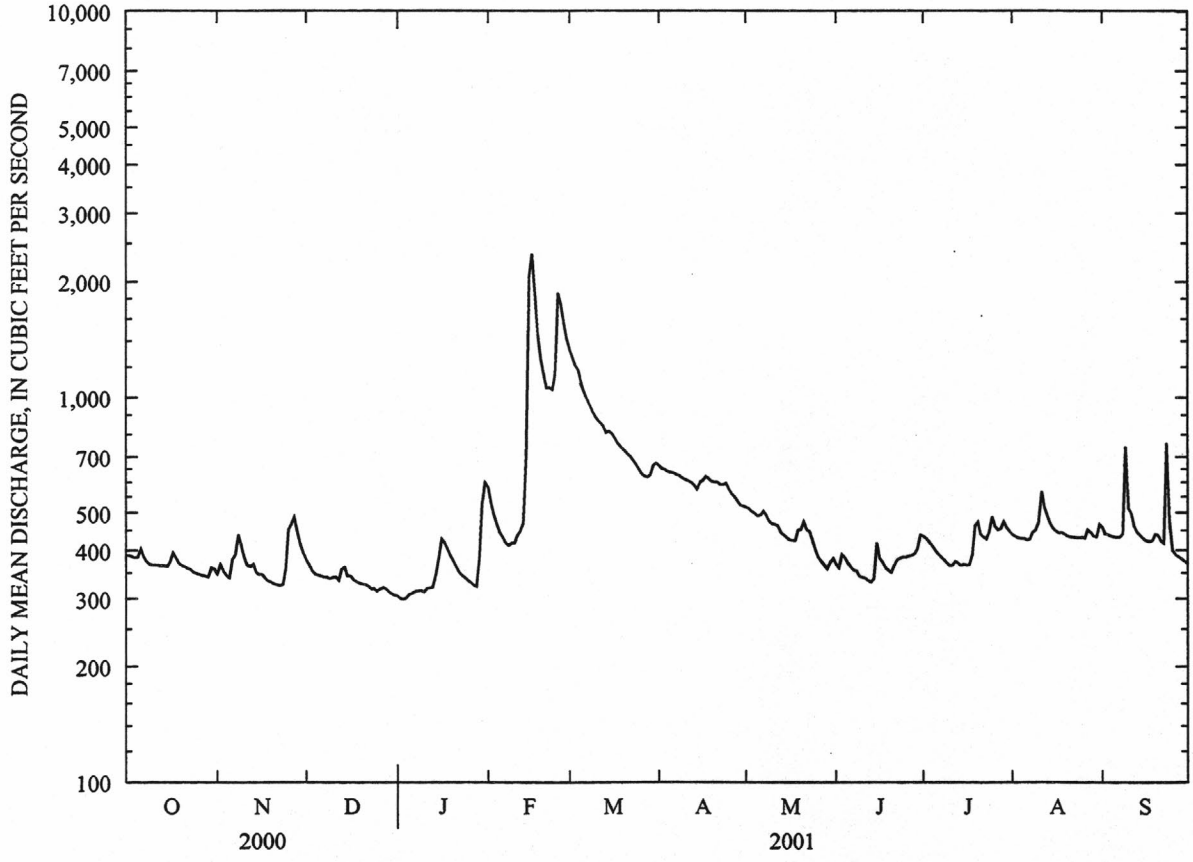
07072000 ELEVEN POINT RIVER NEAR RAVENDEN SPRINGS--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930-33, 1936-94, 2001, BY WATER YEAR (WY)

MEAN	594	874	1077	1286	1360	1645	1931	1696	1178	827	666	613
MAX	1515	3028	6625	4757	3833	4603	6204	4528	4550	2105	1147	1666
(WY)	1985	1959	1983	1949	1950	1945	1973	1973	1945	1951	1946	1975
MIN	272	284	276	266	354	419	440	446	355	311	269	291
(WY)	1957	1957	1956	1956	1963	1981	1981	2001	1936	1936	1936	1956

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1930-94, 1936-94, 2001	
ANNUAL TOTAL	181424			
ANNUAL MEAN	497		1144	
HIGHEST ANNUAL MEAN			2326	1973
LOWEST ANNUAL MEAN			435	1981
HIGHEST DAILY MEAN	2350	Feb 16	53500	Dec 3 1982
LOWEST DAILY MEAN	299	Jan 3	226	Sep 9 1936
ANNUAL SEVEN-DAY MINIMUM	304	Dec 30	241	Aug 25 1936
MAXIMUM PEAK FLOW	2840	Feb 16	[a]162000	Dec 3 1982
MAXIMUM PEAK STAGE	6.26	Feb 16	[b]29.06	Dec 3 1982
INSTANTANEOUS LOW FLOW	293	Jan 2-4	[c]226	Sep 9 1936
ANNUAL RUNOFF (AC-FT)	359900		828400	
ANNUAL RUNOFF (CFSM)	.44		1.01	
ANNUAL RUNOFF (INCHES)	5.95		13.70	
10 PERCENT EXCEEDS	724		2090	
50 PERCENT EXCEEDS	424		808	
90 PERCENT EXCEEDS	334		400	

[a]From rating curve extended above 23,000 ft^3/s on basis of contracted-opening and flow-over-road measurement of peak flow
[b]From floodmark
[c]Observed
[e]Estimated



07072500 BLACK RIVER AT BLACK ROCK

LOCATION.--Lat 36°06'15", long 91°05'50", in NW1/4 sec.21, T.17 N., R.1 W., Lawrence County, Hydrologic Unit 11010009, on right bank beneath U.S. Highway 63 bridge at Black Rock, 3.7 mi downstream from Spring River, and at mile 69.3.

DRAINAGE AREA.--7,369 mi^2.

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

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

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

REMARKS.--No estimated daily discharges. Records good. Some regulation by Clearwater Lake (Missouri), since June 3, 1948, 189 mi upstream, capacity, 413,700 acre-ft. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1915, reached a stage of 31.9 ft, from records of National Weather Service, discharge, 160,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2000	1950	3060	2220	4290	17000	5150	3550	2560	2240	3040	2140
2	1990	1990	2850	2190	4720	16700	5010	3430	2550	2260	2910	2100
3	1960	1980	2710	2170	4750	15700	4860	3300	2570	2280	2730	2070
4	1930	1950	2640	2180	4440	14700	4760	3180	2670	2260	2520	2080
5	1920	1930	2590	2170	4090	14000	4730	3090	2740	2190	2410	2090
6	1960	1960	2530	2160	3820	13200	5050	3100	2700	2160	2410	2070
7	1920	2050	2470	2180	3640	12300	5440	3180	2750	2120	2420	2040
8	1910	2180	2410	2220	3550	11400	5550	3250	2840	2090	2500	2020
9	1960	2760	2360	2270	3520	10600	5510	3190	2830	2060	2520	2620
10	2010	2810	2330	2290	3510	9960	5370	3090	2730	2030	2470	3580
11	2040	2670	2320	2320	3490	9470	5230	3010	2650	2040	2540	3770
12	2050	2580	2300	2370	3620	9140	5070	2950	2560	2020	2710	3680
13	2010	2600	2330	2400	3830	8810	4930	2890	2490	2010	2580	3430
14	1960	2580	2410	2480	5440	8430	4830	2810	2440	2010	2570	3190
15	1950	2500	2490	2580	14600	8150	4800	2750	2690	2010	2810	2930
16	1950	2390	2600	2690	20200	7970	4830	2700	2860	2010	2880	2680
17	1970	2310	2720	2900	22100	7620	4840	2660	2740	1980	2850	2490
18	1990	2250	2700	3140	20300	7240	4950	2610	2620	1960	2770	2370
19	2020	2200	2650	3260	18300	6880	5020	2580	2510	2010	2590	2470
20	2040	2170	2590	3190	16300	6550	4950	2600	2410	2050	2380	2430
21	2030	2140	2600	3060	14400	6290	4790	2790	2340	2150	2200	2330
22	2000	2110	2610	2970	12800	6070	4610	2890	2300	2270	2090	2280
23	1970	2090	2510	2930	11600	5790	4470	2920	2270	2340	2040	2260
24	1930	2180	2470	2900	11200	5470	4390	3020	2270	2310	2030	2820
25	1900	3290	2440	2830	14000	5170	4250	3020	2280	2290	2030	2300
26	1890	3610	2350	2750	16000	4910	4080	2900	2270	2260	2020	2230
27	1880	3570	2390	2670	16400	4710	3930	2750	2260	2270	2020	2270
28	1890	3490	2350	2620	16800	4550	3790	2640	2200	2330	2030	2370
29	1890	3380	2300	2940	---	4500	3700	2560	2160	2550	2020	2390
30	1970	3240	2270	3970	---	4720	3630	2530	2200	2990	2020	2330
31	1990	---	2220	4100	---	5200	---	2600	---	3160	2040	---
TOTAL	60880	74910	77570	83120	281710	273200	142520	90540	75460	68710	75150	75830
MEAN	1964	2497	2502	2681	10060	8813	4751	2921	2515	2216	2424	2528
MAX	2050	3610	3060	4100	22100	17000	5550	3550	2860	3160	3040	3770
MIN	1880	1930	2220	2160	3490	4500	3630	2530	2160	1960	2020	2020
AC-FT	120800	148600	153900	164900	558800	541900	282700	179600	149700	136300	149100	150400

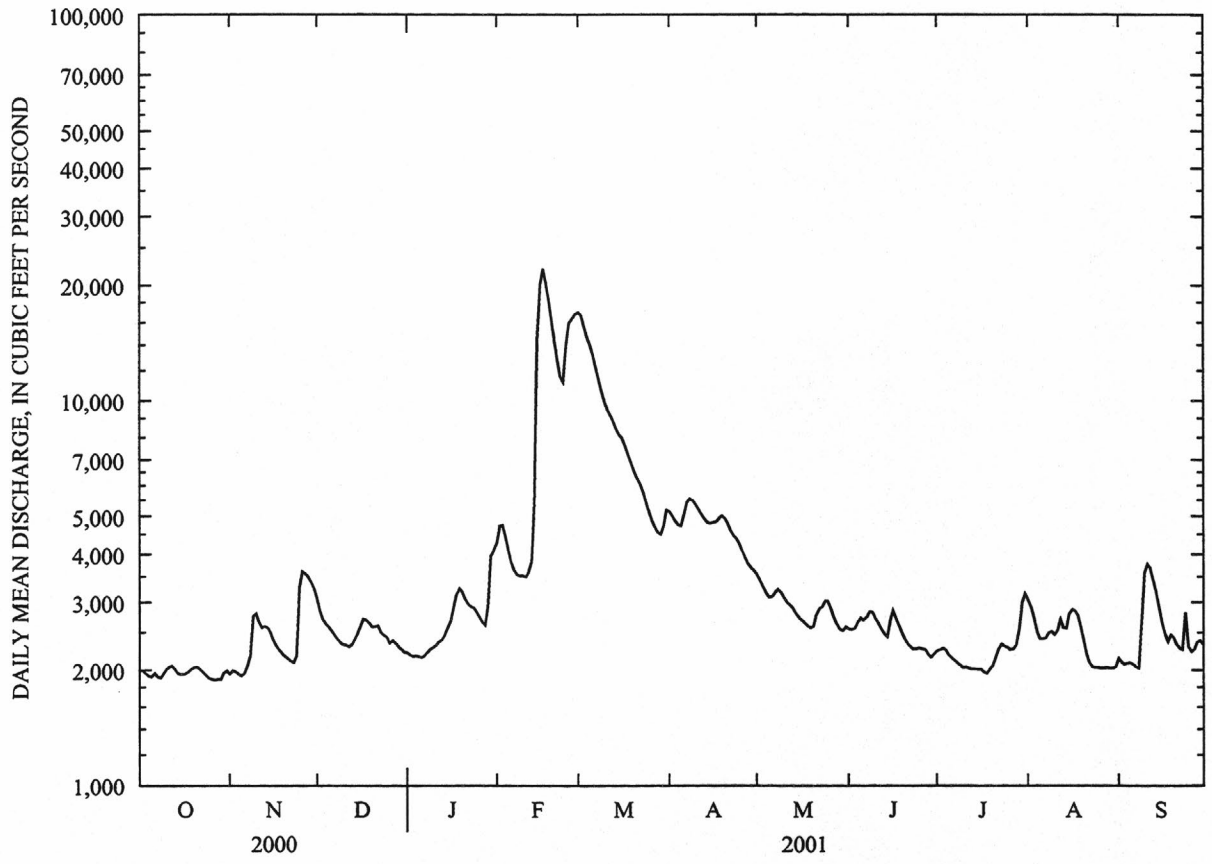
07072500 BLACK RIVER AT BLACK ROCK--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2001, BY WATER YEAR (WY)

MEAN	3966	6588	9247	10550	11390	13600	15380	13210	7617	5140	4014	3775
MAX	11570	23020	44020	40410	36240	30410	42280	36370	18890	17630	9130	7630
(WY)	1985	1973	1983	1950	1989	1979	1973	1961	1957	1951	1998	1975
MIN	1797	1984	2042	1998	2650	3784	3721	2921	2515	2216	2028	1853
(WY)	1957	1957	1956	1956	1963	1981	1981	2001	2001	2001	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1948 - 2001	
ANNUAL TOTAL	1649500		1379600			
ANNUAL MEAN	4507		3780		[a]8691	
HIGHEST ANNUAL MEAN					17330	1973
LOWEST ANNUAL MEAN					3552	1954
HIGHEST DAILY MEAN	23000	May 28	22100	Feb 17	123000	Dec 5 1982
LOWEST DAILY MEAN	1810	Sep 22	1880	Oct 27	1730	Sep 18 1956
ANNUAL SEVEN-DAY MINIMUM	1840	Sep 17	1910	Oct 23	1730	Sep 22 1956
MAXIMUM PEAK FLOW			22500	Feb 17	[b]190000	Dec 4 1982
MAXIMUM PEAK STAGE			18.25	Feb 17	[c]31.51	Dec 4 1982
ANNUAL RUNOFF (AC-FT)	3272000		2736000		6296000	
10 PERCENT EXCEEDS	8760		5900		18800	
50 PERCENT EXCEEDS	3320		2600		5650	
90 PERCENT EXCEEDS	1960		2010		2680	

[a]Prior to regulation, water years 1930-31 and 1940-47, 7,854 ft^3/s
[b]From rating curve extended above 105,000 ft^3/s
[c]From floodmarks



07074420 BLACK RIVER AT ELGIN FERRY

LOCATION.--Lat 35°45'51", long 91°17'40", in NW1/4SE1/4 sec.15, T.13 N., R.3 W., Jackson County, Hydrologic Unit 11010009, on left bank 1,800 ft upstream from State Highway 37 bridge at Elgin Ferry.

DRAINAGE AREA.--8,418 mi^2. Datum of gage is 200.00 ft above sea level.

PERIOD OF RECORD.--January 1999 to current year. Annual maximum water years 1979-98.

GAGE.--Water-stage recorder.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 4, 1982, reached a stage of 27.7 ft, from floodmarks, discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

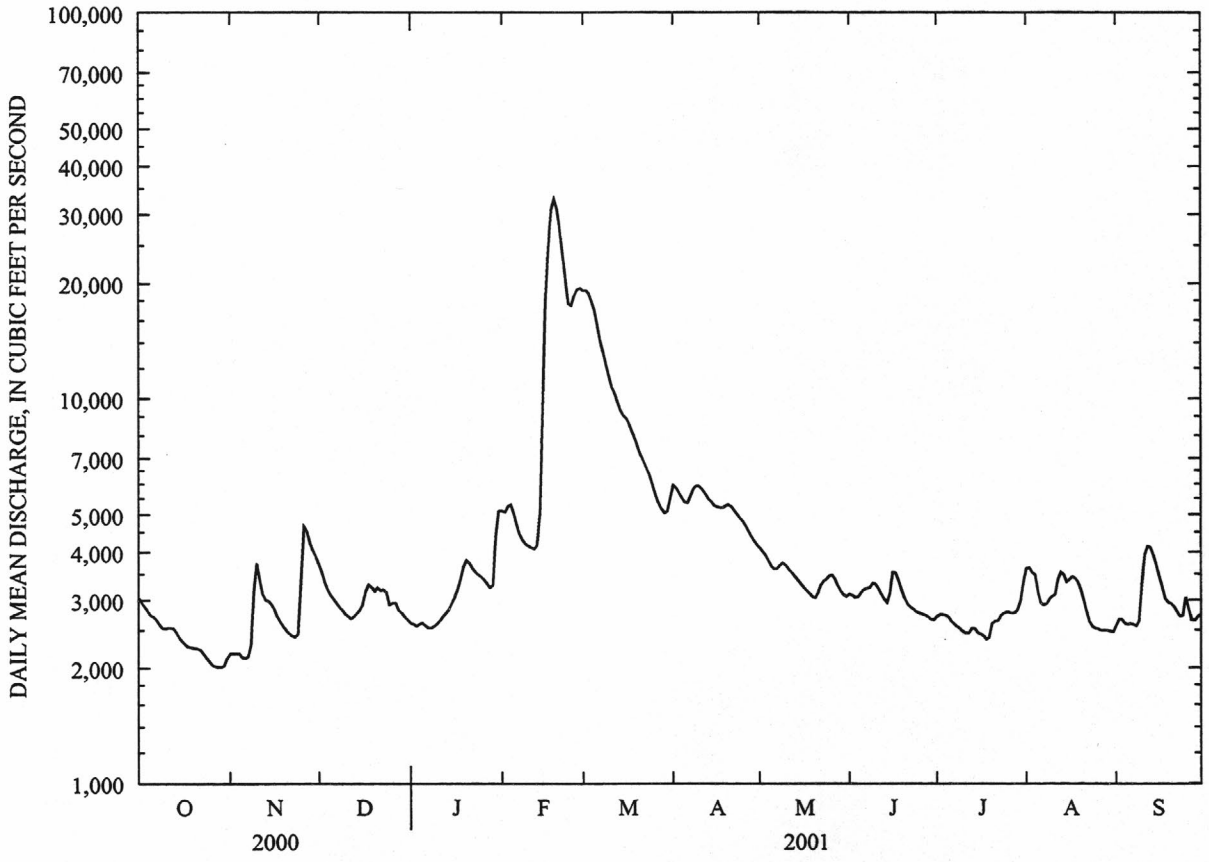
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3040	2180	3710	2620	5120	19200	5970	4110	3110	2720	3630	2570
2	2960	2180	3540	2600	5090	19200	5880	4020	3090	2750	3640	2670
3	2890	2180	3340	2570	5270	18800	5700	3920	3050	2750	3530	2670
4	2820	2180	3190	2600	5320	17900	5540	3800	3060	2740	3490	2610
5	2750	2130	3090	2620	5050	17000	5390	3680	3130	2710	3170	2590
6	2720	2120	3020	2580	4720	15500	5370	3610	3190	2640	2960	2600
7	2670	2140	2950	2540	4460	14100	5600	3620	3210	2600	2910	2590
8	2600	2290	2880	2540	4300	13200	5850	3690	3230	2560	2930	2570
9	2540	3170	2820	2570	4200	12300	5940	3740	3320	2530	3010	2650
10	2530	3740	2760	2600	4150	11400	5920	3700	3310	2490	3070	3310
11	2540	3400	2730	2650	4110	10700	5810	3610	3220	2460	3100	3940
12	2540	3120	2690	2710	4080	10300	5660	3530	3110	2460	3390	4140
13	2530	3010	2720	2770	4190	9770	5520	3460	3020	2530	3540	4110
14	2470	2990	2770	2840	5080	9310	5420	3390	2950	2530	3490	3930
15	2390	2930	2830	2950	10400	9030	5290	3310	3120	2470	3340	3710
16	2340	2840	2920	3060	18100	8890	5250	3240	3530	2450	3390	3470
17	2300	2720	3150	3200	24800	8580	5220	3180	3530	2420	3450	3220
18	2270	2630	3300	3400	30800	8200	5210	3130	3360	2370	3420	3020
19	2260	2560	3240	3660	32900	7810	5280	3070	3180	2400	3340	2950
20	2250	2500	3170	3810	31000	7410	5310	3040	3030	2600	3180	2940
21	2250	2460	3240	3750	27600	7090	5260	3140	2930	2640	2990	2890
22	2230	2420	3180	3630	23400	6820	5140	3290	2870	2650	2800	2800
23	2180	2410	3200	3550	20300	6570	5010	3370	2840	2730	2640	2720
24	2130	2450	3150	3490	17700	6320	4900	3400	2800	2770	2560	2730
25	2080	3450	2920	3450	17500	5980	4820	3470	2770	2790	2530	3050
26	2040	4660	2950	3390	18600	5650	4700	3480	2760	2790	2520	2840
27	2020	4520	2950	3310	19300	5380	4550	3400	2740	2770	2500	2660
28	2010	4230	2830	3230	19500	5180	4410	3270	2720	2780	2500	2650
29	2010	4030	2780	3280	---	5060	4290	3170	2670	2840	2500	2710
30	2030	3870	2720	4410	---	5110	4190	3100	2660	3000	2490	2750
31	2120	---	2670	5130	---	5540	---	3070	---	3340	2480	---
TOTAL	74510	87510	93410	97510	377040	313300	158400	107010	91510	82280	94490	90060
MEAN	2404	2917	3013	3145	13470	10110	5280	3452	3050	2654	3048	3002
MAX	3040	4660	3710	5130	32900	19200	5970	4110	3530	3340	3640	4140
MIN	2010	2120	2670	2540	4080	5060	4190	3040	2660	2370	2480	2570
AC-FT	147800	173600	185300	193400	747900	621400	314200	212300	181500	163200	187400	178600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	2851	3039	4130	5741	12200	10970	10700	6955	6014	3713	3096	2743
MAX	3299	3161	5246	8336	16700	13070	21290	10510	9592	4331	3209	3002
(WY)	2000	2000	2000	2000	1999	1999	1999	1999	2000	2000	1999	2001
MIN	2404	2917	3013	3145	6620	9729	5280	3452	3050	2654	3032	2427
(WY)	2001	2001	2001	2001	2000	2000	2001	2001	2001	2001	2000	2000

07074420 BLACK RIVER AT ELGIN FERRY--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	1975870		1667030			
ANNUAL MEAN	5399		4567		5126	
HIGHEST ANNUAL MEAN					5684	2000
LOWEST ANNUAL MEAN					4567	2001
HIGHEST DAILY MEAN	28400	May 30	32900	Feb 19	32900	Feb 19 2001
LOWEST DAILY MEAN	2010	Oct 28	2010	Oct 28	2010	Oct 28 2000
ANNUAL SEVEN-DAY MINIMUM	2040	Oct 25	2040	Oct 25	2040	Oct 25 2000
MAXIMUM PEAK FLOW			33300	Feb 19	33300	Feb 19 2001
MAXIMUM PEAK STAGE			22.54	Feb 19	22.54	Feb 19 2001
INSTANTANEOUS LOW FLOW			2000	Oct 28	2000	Oct 28 2000
ANNUAL RUNOFF (AC-FT)	3919000		3307000		3714000	
10 PERCENT EXCEEDS	9740		6670		15100	
50 PERCENT EXCEEDS	4120		3150		3930	
90 PERCENT EXCEEDS	2410		2470		2590	



07074500 WHITE RIVER AT NEWPORT

LOCATION.--Lat 35°36'18", long 91°17'20", in NE1/4NE1/4 sec.10, T.11 N., R.3 W., Jackson County, Hydrologic Unit 11010013, on left bank 100 ft downstream from bridge on State Highway 367 at Newport, 7.2 mi downstream from Black River, and at mile 257.6.

DRAINAGE AREA.--19,860 mi².

PERIOD OF RECORD.--September 1927 to September 1931 (published as "near Newport"), October 1937 to current year. Gage-height records collected at present site since 1885 are contained in reports of National Weather Service.

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

GAGE.--Water-stage recorder. Datum of gage is 194.09 ft above sea level. September 1927 to September 1931, nonrecording gage at site 2.8 mi downstream at datum 2.30 ft lower. Oct. 1, 1937, to Aug. 14, 1953, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1927, that of Apr. 18, 1945. Flood of Apr. 16, 1927, reached a stage of 35.6 ft, from records of National Weather Service.

REVISIONS.--Revised daily discharges, in cubic feet per second for a period in January 2000 are given below. These figures supersede those published in the 2000 report

Daily Discharges:

Jan. 21	9,920	Jan. 22	11,000	Jan. 23	12,500
Jan. 24	13,500	Jan. 25	14,900	Jan. 26	15,400

	Total	Mean	Max	Min
January 2000	418,100	13,490	21,100	5,650
Water Year	4,000,460	10,930	45,800	3,580

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3470	3100	6910	5490	9880	41300	11000	6690	5060	6920	10400	6300
2	3530	3220	6600	5590	10900	41400	10300	7400	4850	6640	13400	5640
3	3510	3750	6180	6820	11500	36900	9610	8390	4690	5670	14600	5020
4	4820	3650	5680	9840	14100	34900	10300	8480	4540	5600	16900	4940
5	6760	3290	5400	11100	12100	33300	10700	6840	4600	6440	14400	4650
6	6260	3390	5460	8230	9580	30700	10500	6710	5570	5700	10600	5770
7	5100	3200	5610	5940	8880	30300	9920	6180	6200	6540	8420	7490
8	4190	3510	6030	4740	9420	30000	10900	6200	6100	6360	11200	10400
9	3620	5880	6880	4200	8850	29100	11200	6950	5340	6280	12300	11900
10	3420	7800	6890	4310	8090	27200	11800	6410	4910	6590	13300	9890
11	3640	7030	6110	6360	7720	26200	13200	6490	4850	8600	14500	8090
12	3950	5940	5210	8150	7560	24600	13900	7000	5460	7820	11100	6960
13	3740	5350	6630	7060	7630	21400	12500	6460	6130	6580	8420	8360
14	3800	5080	10200	5990	11500	19700	11400	5530	7120	6870	6660	8730
15	3670	5070	10500	5690	20900	19500	10300	5210	7380	7220	7250	8810
16	e3040	5170	8550	6010	38600	17200	10200	5080	8770	6870	7490	8530
17	e3040	6120	e6840	6340	52300	16300	10700	5550	8190	4870	6320	7500
18	3380	5780	6280	6800	61100	16100	10600	6140	7160	5140	6210	6360
19	3370	5480	7810	7090	60500	16200	9790	6020	6850	8900	7180	6940
20	e3320	6210	9610	7260	55800	16600	9770	5480	7760	11500	6950	7600
21	e3280	5490	13500	7200	50400	16300	10800	5290	7350	10400	5830	7020
22	3370	5880	12600	7090	45500	15100	9920	5200	6090	9900	6450	6890
23	3190	8170	13500	6670	43500	13800	10200	5130	6500	8320	9760	6250
24	3130	8440	12300	6690	42600	12700	9990	5070	5420	7250	11800	6110
25	3090	8040	e9460	6700	41700	e12000	10400	5010	4870	10800	12700	5770
26	2880	8670	e6200	6090	41600	e11100	11600	5060	4580	12000	11900	5690
27	2990	8450	5810	6580	43500	10500	9560	6050	5690	11900	10400	5680
28	3180	9150	5430	8150	42100	9850	8840	5750	6820	10300	9790	6050
29	2980	8410	6200	7070	---	10100	8240	5020	5340	9630	9620	6310
30	2870	7500	5200	7650	---	10400	7240	4760	5400	8280	7730	7100
31	3080	---	5900	8920	---	10700	---	5130	---	6800	6560	---

07074500 WHITE RIVER AT NEWPORT--CONTINUED

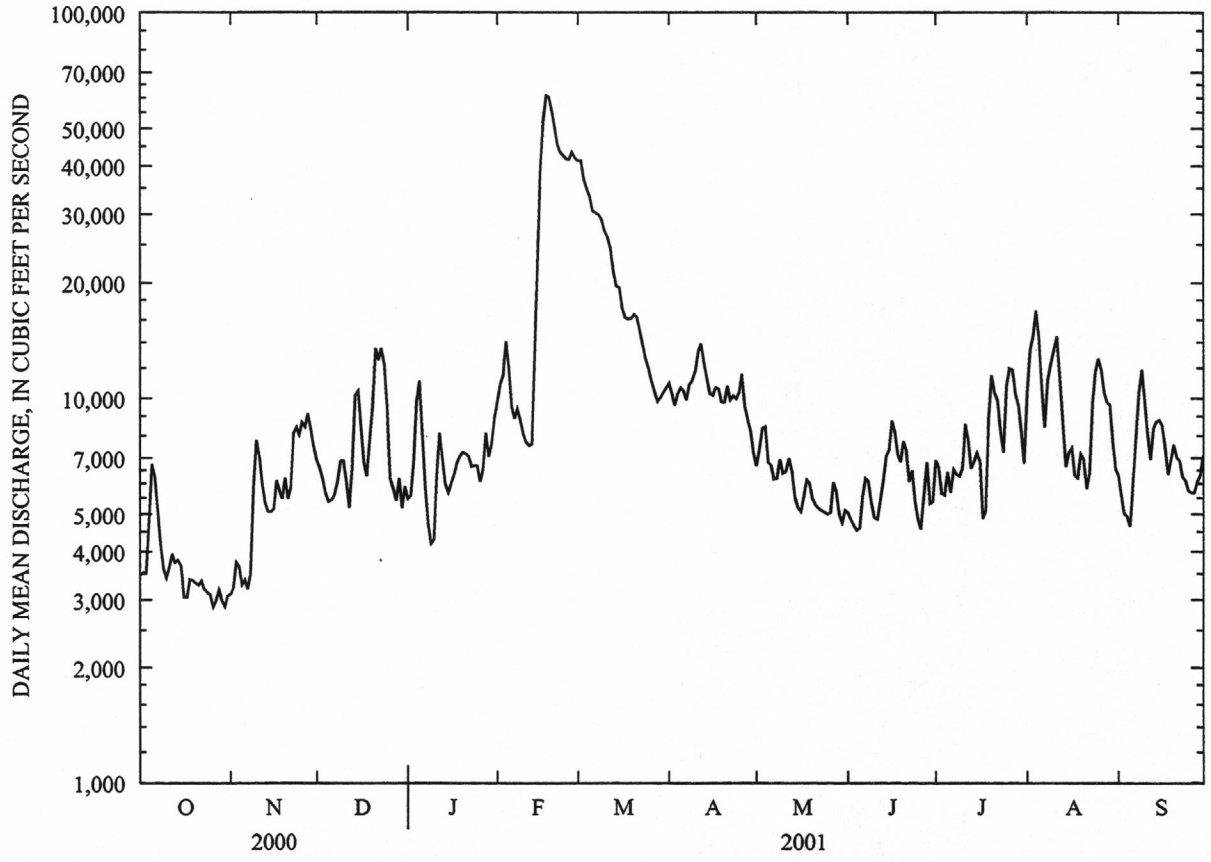
TOTAL	113670	176220	235480	211820	777810	661450	315380	186680	179590	242690	310140	212750
MEAN	3667	5874	7596	6833	27780	21340	10510	6022	5986	7829	10000	7092
MAX	6760	9150	13500	11100	61100	41400	13900	8480	8770	12000	16900	11900
MIN	2870	3100	5200	4200	7560	9850	7240	4760	4540	4870	5830	4650
AC-FT	225500	349500	467100	420100	1543000	1312000	625600	370300	356200	481400	615200	422000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

MEAN	10360	15370	22800	25900	28710	34270	37830	33810	21910	16330	13040	10780
MAX	26280	41430	89140	90830	95540	117400	164200	102800	98630	43020	34390	29530
(WY)	1994	1973	1983	1950	1949	1945	1945	1943	1945	1951	1957	1957
MIN	3667	3795	4371	5310	7052	9148	6539	6022	5986	5354	4611	3702
(WY)	2001	1955	1944	1944	1964	1981	1981	2001	2001	1944	1944	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	3797820		3623680			
ANNUAL MEAN	10380		9928		[a]22560	
HIGHEST ANNUAL MEAN					46320	1945
LOWEST ANNUAL MEAN					8073	1981
HIGHEST DAILY MEAN	45800	May 30	61100	Feb 18	340000	Apr 18 1945
LOWEST DAILY MEAN	2870	Oct 30	2870	Oct 30	2870	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	3010	Oct 25	3010	Oct 25	2960	Sep 24 1954
MAXIMUM PEAK FLOW			62800	Feb 18	343000	Apr 17 1945
MAXIMUM PEAK STAGE			24.31	Feb 18	[b]35.19	Apr 18 1945
INSTANTANEOUS LOW FLOW			2820	Oct 26	2820	Oct 26 2000
ANNUAL RUNOFF (AC-FT)	7533000		7188000		16340000	
10 PERCENT EXCEEDS	16400		15500		47800	
50 PERCENT EXCEEDS	9060		7030		15500	
90 PERCENT EXCEEDS	3840		4270		6520	

[a]Prior to regulation, water years 1928-31, 1938-42, 26,370 ft^3/s
[b]Observed
[e]Estimated



07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS

LOCATION.--Lat 35°31'15", long 91°59'42", in SE1/4 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 northwest of Heber Springs, 5.5 mi upstream from Canoe Creek, and at mile 79.0.

DRAINAGE AREA.--1,153 mi².

PERIOD OF RECORD.--October 1970 to September 1972, December 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
12...	1019	80513	146	.000	7.20	769	8.5	93	6.4	44	20.3
12...	1020	80513	146	10.0	--	769	8.4	92	6.5	44	20.3
12...	1021	80513	146	20.0	--	769	8.4	92	6.5	44	20.4
12...	1022	80513	146	30.0	--	769	8.3	92	6.5	44	20.4
12...	1023	80513	146	40.0	--	769	8.2	90	6.5	43	20.4
12...	1024	80513	146	46.0	--	769	5.6	61	6.4	43	19.8
12...	1026	80513	146	50.0	--	769	4.5	46	6.3	41	17.9
12...	1027	80513	146	54.0	--	769	4.3	44	6.3	41	17.1
12...	1028	80513	146	58.0	--	769	4.2	43	6.3	41	16.0
12...	1029	80513	146	60.0	--	769	4.3	43	6.3	41	15.6
12...	1030	80513	146	66.0	--	769	4.3	42	6.4	42	14.3
12...	1031	80513	146	70.0	--	769	4.4	42	6.4	42	13.7
12...	1032	80513	146	80.0	--	769	4.7	44	6.4	42	12.5
12...	1033	80513	146	90.0	--	769	4.7	42	6.5	42	11.3
12...	1034	80513	146	100	--	769	4.5	40	6.5	42	10.6
12...	1035	80513	146	110	--	769	4.2	37	6.5	43	10.0
12...	1036	80513	146	120	--	769	3.5	30	6.5	43	9.6
12...	1037	80513	146	130	--	769	2.7	23	6.5	44	9.3
12...	1038	80513	146	140	--	769	2.4	20	6.4	44	9.3
12...	1039	80513	146	146	--	769	2.3	20	6.4	44	9.3
NOV											
06...	0948	80513	140	.40	3.50	754	8.2	90	6.8	46	19.8
06...	0949	80513	140	10.0	--	754	8.1	90	6.8	46	19.8
06...	0950	80513	140	20.0	--	754	7.9	87	6.7	46	19.8
06...	0951	80513	140	30.0	--	754	5.7	63	6.5	46	19.4
06...	0952	80513	140	40.0	--	754	4.3	47	6.5	45	18.7
06...	0954	80513	140	46.0	--	754	3.5	37	6.3	44	17.8
06...	0955	80513	140	50.0	--	754	3.6	37	6.3	44	16.6
06...	0956	80513	140	55.0	--	754	3.6	36	6.4	44	15.4
06...	0957	80513	140	60.0	--	754	3.8	37	6.4	44	14.6
06...	0958	80513	140	71.0	--	754	4.0	38	6.4	44	13.3
06...	0959	80513	140	80.0	--	754	4.2	39	6.5	44	12.2
06...	1000	80513	140	90.0	--	754	4.2	38	6.5	45	11.1
06...	1001	80513	140	100	--	754	4.0	36	6.5	45	10.2
06...	1002	80513	140	110	--	754	3.4	30	6.4	46	9.9
06...	1003	80513	140	120	--	754	2.4	21	6.4	47	9.5
06...	1004	80513	140	130	--	754	1.9	17	6.3	47	9.4
06...	1005	80513	140	139	--	754	1.8	15	6.2	47	9.3
MAR											
26...	0928	80513	147	1.00	8.40	773	10.4	91	6.9	42	10.0
26...	0929	80513	147	10.0	--	773	10.6	93	7.0	42	10.0
26...	0931	80513	147	20.0	--	773	10.8	94	6.9	42	10.0
26...	0932	80513	147	30.0	--	773	11.1	97	6.9	42	10.0
26...	0934	80513	147	40.0	--	773	10.4	91	6.9	42	10.0
26...	0935	80513	147	50.0	--	773	10.7	90	6.9	42	8.6
26...	0936	80513	147	60.0	--	773	10.7	89	6.9	42	8.1
26...	0937	80513	147	70.0	--	773	10.4	86	6.9	42	7.6
26...	0938	80513	147	80.0	--	773	10.4	85	6.8	42	7.4
26...	0939	80513	147	90.0	--	773	10.5	85	6.8	42	7.2
26...	0940	80513	147	100	--	773	10.6	86	6.8	42	7.0
26...	0941	80513	147	110	--	773	10.3	83	6.8	42	6.8
26...	0942	80513	147	120	--	773	10.5	84	6.7	42	6.6
26...	0943	80513	147	130	--	773	10.3	83	6.7	42	6.5
26...	0944	80513	147	140	--	773	10.3	83	6.7	42	6.5
26...	0945	80513	147	147	--	773	9.9	80	6.7	42	6.5

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS--CONTINUED

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
AUG											
16...	0935	80513	153	.000	4.40	760	7.4	97	7.8	48	29.4
16...	0936	80513	153	10.0	--	760	7.3	96	7.7	48	29.6
16...	0937	80513	153	20.1	--	760	7.2	95	7.7	48	29.6
16...	0938	80513	153	25.9	--	760	7.3	95	7.9	48	29.4
16...	0939	80513	153	27.0	--	760	9.1	116	8.2	48	28.0
16...	0940	80513	153	28.0	--	760	10.0	125	8.7	48	26.6
16...	0941	80513	153	29.0	--	760	10.4	128	8.9	48	25.6
16...	0942	80513	153	30.0	--	760	10.7	130	8.9	48	25.0
16...	0943	80513	153	30.8	--	760	10.9	130	9.0	50	23.8
16...	0944	80513	153	32.0	--	760	11.2	130	9.0	52	22.8
16...	0945	80513	153	33.0	--	760	11.0	126	9.0	55	21.9
16...	0946	80513	153	33.9	--	760	10.8	121	8.9	57	20.9
16...	0947	80513	153	35.0	--	760	10.6	116	8.6	59	19.7
16...	0948	80513	153	37.0	--	760	10.1	108	8.3	64	18.3
16...	0949	80513	153	39.0	--	760	9.6	98	8.1	69	16.6
16...	0950	80513	153	40.0	--	760	9.4	96	7.9	71	16.0
16...	0951	80513	153	42.0	--	760	9.4	93	7.7	76	14.8
16...	0952	80513	153	44.0	--	760	9.3	90	7.6	80	13.7
16...	0953	80513	153	46.0	--	760	9.0	85	7.5	84	12.6
16...	0954	80513	153	50.0	--	760	8.7	80	7.4	72	11.6
16...	0955	80513	153	55.1	--	760	8.5	77	7.2	56	10.7
16...	0956	80513	153	59.6	--	760	8.2	73	7.1	44	10.0
16...	0957	80513	153	70.2	--	760	7.9	68	7.0	45	8.9
16...	0958	80513	153	80.3	--	760	7.7	66	7.0	45	8.5
16...	0959	80513	153	90.0	--	760	7.7	65	6.9	44	8.0
16...	1000	80513	153	100	--	760	7.5	63	6.9	44	7.7
16...	1001	80513	153	110	--	760	7.3	61	6.8	45	7.6
16...	1002	80513	153	120	--	760	7.1	60	6.8	45	7.4
16...	1003	80513	153	130	--	760	7.0	58	6.8	45	7.4
16...	1004	80513	153	140	--	760	6.8	57	6.7	44	7.3
16...	1005	80513	153	150	--	760	6.7	55	6.7	45	7.2
16...	1006	80513	153	153	--	760	6.5	54	6.7	45	7.3
SEP											
25...	0903	80513	146	1.20	5.20	772	8.4	99	6.8	51	24.0
25...	0904	80513	146	9.90	--	772	8.3	98	6.9	51	24.2
25...	0905	80513	146	19.9	--	772	8.3	98	7.0	51	24.2
25...	0906	80513	146	29.9	--	772	8.3	98	7.0	51	24.2
25...	0907	80513	146	34.0	--	772	10.1	111	7.0	49	20.8
25...	0908	80513	146	35.0	--	772	9.9	107	7.0	48	19.4
25...	0909	80513	146	36.1	--	772	10	104	7.0	48	17.9
25...	0910	80513	146	37.0	--	772	9.6	98	7.0	48	16.7
25...	0911	80513	146	38.0	--	772	9.3	93	7.0	47	15.8
25...	0912	80513	146	40.0	--	772	9.0	87	7.0	47	14.6
25...	0913	80513	146	45.1	--	772	8.4	78	7.0	47	12.8
25...	0914	80513	146	49.9	--	772	8.2	75	7.0	47	11.9
25...	0915	80513	146	55.0	--	772	8.1	72	7.0	47	10.9
25...	0916	80513	146	60.0	--	772	7.9	69	7.0	47	10.2
25...	0917	80513	146	69.9	--	772	7.4	64	7.0	48	9.3
25...	0918	80513	146	79.8	--	772	7.2	62	7.0	48	8.8
25...	0919	80513	146	90.0	--	772	7.2	61	7.1	48	8.3
25...	0920	80513	146	100	--	772	7.1	59	7.0	48	8.0
25...	0921	80513	146	110	--	772	6.8	56	6.9	48	7.8
25...	0922	80513	146	120	--	772	6.4	53	6.8	48	7.7
25...	0923	80513	146	130	--	772	6.2	51	6.8	48	7.5
25...	0924	80513	146	140	--	772	6.0	50	6.7	48	7.5
25...	0926	80513	146	146	--	772	5.9	48	6.6	48	7.5

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS

LOCATION.--Lat 35°31'02", long 91°59'50", in NE1/4 sec.7, T.10 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, on right bank 1,600 ft downstream from Greers Ferry Dam, 3.0 mi northeast of Heber Springs, and at mile 78.8.

DRAINAGE AREA.--1,153 mi².

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, May 1991 to current year.

DISSOLVED OXYGEN: May 1991 to current year.

REMARKS.--Flow regulated by Greers Ferry Lake. Dissolved oxygen and water temperature collected continuously June through December.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00027)	DEPTH BOTTOM AT SAMPLE LOCATION, (PEET) (81903)	SAMPLING DEPTH (FEET) (00003)	STREAM WIDTH (FT) (00004)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)
OCT											
12..	80513	--	--	--	773	10.9	98	6.8	43	10.9	--
NOV											
06..	80513	--	--	--	754	11.8	117	6.8	47	14.4	--
06..	80513	.50	.20	200	754	5.2	48	6.9	48	11.1	190
06..	80513	1.50	.70	200	754	5.2	48	6.8	48	11.1	170
06..	80513	.50	.20	200	754	5.2	47	6.8	48	11.0	150
06..	80513	.50	.20	200	754	5.2	48	6.7	48	11.1	130
06..	80513	.50	.20	200	754	5.3	49	6.6	48	11.2	110
06..	80513	.50	.20	200	754	5.4	49	6.5	48	11.1	90.0
06..	80513	.50	.20	200	754	5.4	50	6.5	48	11.2	70.0
06..	80513	1.00	.40	200	754	5.5	51	6.4	48	11.3	50.0
06..	80513	1.00	.50	200	754	5.6	52	6.4	48	11.4	30.0
06..	80513	1.50	.60	200	754	5.8	54	6.3	48	11.6	10.0
MAR											
26..	80513	--	--	--	773	11.2	91	6.8	42	7.3	--
AUG											
16..	80513	--	--	--	760	10.2	95	7.7	88	12.1	--
SEP											
25..	80513	--	--	--	773	11.1	91	7.2	50	10.4	--

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.7	9.4	10.5	12.1	9.6	10.5	10.6	8.9	9.5	---	---	---
2	12.5	9.5	10.3	11.0	10.0	10.5	9.5	8.5	8.9	---	---	---
3	10.6	9.6	10.2	10.5	9.7	10.0	---	---	---	---	---	---
4	11.5	9.9	10.4	9.9	9.6	9.7	---	---	---	---	---	---
5	11.4	9.9	10.4	10.2	9.6	9.8	10.4	8.8	9.6	---	---	---
6	11.9	9.6	10.5	11.8	9.7	10.7	10.1	8.9	9.7	---	---	---
7	11.4	9.0	9.9	10.2	9.3	9.6	10.5	8.8	9.6	---	---	---
8	11.5	8.9	10.0	9.7	9.3	9.4	10.2	8.9	9.6	---	---	---
9	11.6	8.9	10.0	11.4	9.1	9.8	10.1	9.1	9.6	---	---	---
10	11.9	9.0	10.3	10.9	9.0	9.7	9.7	9.1	9.4	---	---	---
11	12.1	9.0	10.0	9.6	8.9	9.1	---	---	---	---	---	---
12	12.0	9.1	10.2	10.1	9.0	9.4	---	---	---	---	---	---
13	12.3	9.2	10.4	11.0	9.0	10.3	9.3	8.4	8.7	---	---	---
14	12.0	9.6	10.4	10.4	8.8	9.4	9.1	8.7	8.8	---	---	---
15	11.0	9.7	10.3	10.9	8.9	9.4	8.9	8.6	8.7	---	---	---
16	11.2	9.7	10.3	10.9	8.9	10.0	---	---	---	---	---	---
17	12.1	10.1	10.8	9.8	8.4	8.9	---	---	---	---	---	---
18	11.5	9.4	10.3	9.3	8.6	8.9	---	---	---	---	---	---
19	11.0	9.2	9.9	10.2	8.6	9.2	---	---	---	---	---	---
20	11.9	9.4	10.3	9.7	8.4	8.9	---	---	---	---	---	---
21	10.7	9.6	10.0	10.0	8.4	8.9	---	---	---	---	---	---
22	11.8	9.6	10.4	10.1	8.6	9.2	---	---	---	---	---	---
23	12.4	9.6	10.8	9.6	9.2	9.4	---	---	---	---	---	---
24	12.3	9.6	10.6	9.5	9.3	9.4	---	---	---	---	---	---
25	12.5	9.8	10.8	9.5	9.0	9.3	---	---	---	---	---	---
26	12.4	9.9	10.7	10.2	8.8	9.3	7.9	7.2	7.6	---	---	---
27	11.2	10.0	10.5	10.4	8.8	9.4	8.0	7.6	7.7	---	---	---
28	12.5	9.6	10.7	10.2	8.8	9.4	8.4	7.3	7.7	---	---	---
29	11.3	9.6	10.4	10.3	8.8	9.3	---	---	---	---	---	---
30	12.0	10.0	10.8	10.2	8.6	9.1	---	---	---	---	---	---
31	12.0	9.7	10.4	---	---	---	---	---	---	---	---	---
MONTH	12.7	8.9	10.4	12.1	8.4	9.5	---	---	---	---	---	---

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	9.6	7.4	8.4	11.2	7.7	8.6	9.6	7.8	8.2
2	11.3	7.3	8.5	11.0	7.4	8.1	10.8	7.8	8.8	9.6	7.8	8.2
3	10.1	7.2	8.1	11.0	7.4	8.5	12.4	7.8	9.0	10.9	7.7	8.5
4	10.9	7.3	8.2	9.4	7.4	8.2	11.5	7.8	9.0	10.3	7.8	8.4
5	9.9	7.4	8.3	9.8	7.4	8.1	---	---	---	11.1	7.8	8.5
6	10.3	7.2	8.2	9.9	7.4	7.8	---	---	---	11.5	7.9	8.8
7	8.5	7.2	7.7	9.6	7.4	7.7	---	---	---	11.4	7.8	8.7
8	11.2	7.4	8.8	10.8	7.5	8.1	11.2	7.9	8.6	9.6	7.8	8.7
9	8.4	7.4	7.8	10.4	7.5	8.2	10.4	7.9	8.4	11.7	7.9	9.1
10	10.5	7.3	8.2	10.6	7.4	8.5	10.6	7.8	8.6	10.5	7.7	8.2
11	11.5	7.2	8.4	10.9	7.5	8.3	11.8	7.8	9.0	11.2	7.5	8.3
12	11.1	7.2	8.1	11.6	7.5	8.5	9.6	7.8	8.5	11.0	7.5	8.4
13	9.4	7.3	7.7	9.9	7.5	8.7	11.4	7.8	9.2	10.9	7.6	8.4
14	11.6	7.3	8.2	10.6	7.7	8.7	8.9	7.8	8.0	10.8	7.6	8.4
15	11.0	7.4	8.3	11.3	7.6	9.1	11.5	7.7	9.0	10.2	7.7	8.3
16	10.8	7.4	8.3	10.0	7.4	7.9	11.5	7.8	9.0	10.2	7.7	8.2
17	11.3	7.5	8.4	9.2	7.5	7.7	11.0	7.8	8.8	9.4	7.6	8.1
18	10.5	7.6	8.4	8.7	7.5	7.7	10.7	7.8	8.4	9.7	7.8	7.8
19	11.6	7.4	8.5	8.9	7.6	7.8	11.2	7.8	8.3	10.5	7.7	8.5
20	10.9	7.4	8.4	10.2	7.7	8.1	11.4	7.6	8.4	10.2	7.5	8.3
21	8.2	7.3	7.5	10.4	7.6	8.7	11.8	7.9	8.8	9.6	7.6	8.1
22	10.8	7.4	8.3	9.4	7.7	8.3	11.2	7.8	8.4	10.4	7.6	8.3
23	11.8	7.4	8.4	10.6	7.7	8.1	10.9	7.8	8.2	9.9	7.7	8.4
24	9.6	7.5	8.4	9.6	7.6	8.0	11.4	7.7	8.8	9.4	7.6	8.3
25	11.3	7.4	8.4	10.8	7.6	8.1	11.7	7.8	8.8	9.6	7.3	7.8
26	11.3	7.4	8.4	9.6	7.7	8.0	10.6	7.9	8.7	12.0	7.3	8.5
27	7.8	7.4	7.5	10.8	7.8	8.3	9.4	7.8	8.2	10.7	7.7	8.3
28	9.3	7.3	8.1	11.2	7.7	8.5	11.3	7.7	8.4	10.8	7.7	8.3
29	10.5	7.4	8.5	11.1	7.7	8.5	10.1	7.8	8.5	10.5	7.7	8.3
30	11.1	7.4	8.6	10.0	7.7	8.2	10.0	7.8	8.2	10.4	7.6	8.6
31	---	---	---	10.1	7.7	8.2	9.1	7.8	8.2	---	---	---
MONTH	---	---	---	11.6	7.4	8.2	---	---	---	12.0	7.3	8.4

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	7.0	7.9	8.5	5.1	6.6	6.7	4.8	5.8	---	---	---
2	8.6	6.3	7.3	8.1	5.9	6.7	7.5	6.1	6.8	---	---	---
3	8.9	5.1	6.9	7.4	5.3	6.0	---	---	---	---	---	---
4	8.9	5.1	7.4	6.3	5.3	5.7	---	---	---	---	---	---
5	9.4	6.7	7.6	6.3	5.2	5.6	8.3	5.4	6.6	---	---	---
6	8.9	6.2	7.5	6.4	5.1	5.8	8.5	4.4	7.0	---	---	---
7	9.4	6.5	7.7	6.6	5.1	5.8	9.4	5.1	6.6	---	---	---
8	8.8	5.6	7.5	7.3	5.3	6.1	7.6	5.1	5.7	---	---	---
9	8.5	6.6	7.4	7.5	4.3	6.1	8.0	5.0	6.4	---	---	---
10	8.8	6.3	7.7	6.8	5.5	6.2	5.4	4.7	5.0	---	---	---
11	7.8	5.1	6.8	6.7	5.6	6.2	---	---	---	---	---	---
12	7.7	6.3	6.8	6.5	5.6	6.0	---	---	---	---	---	---
13	7.7	4.7	6.8	7.9	4.4	6.6	9.5	4.9	6.1	---	---	---
14	7.4	4.7	6.4	7.9	5.9	6.5	5.6	4.7	5.1	---	---	---
15	8.5	5.9	6.6	6.7	4.0	6.0	5.6	4.6	5.0	---	---	---
16	7.9	5.1	6.4	6.5	4.0	5.8	---	---	---	---	---	---
17	8.3	5.3	7.3	6.8	5.7	6.2	---	---	---	---	---	---
18	7.3	5.8	6.4	6.4	5.7	6.0	---	---	---	---	---	---
19	8.4	4.6	6.6	6.6	5.4	5.9	---	---	---	---	---	---
20	7.3	5.4	6.4	7.4	5.5	6.5	---	---	---	---	---	---
21	6.4	5.2	5.7	6.5	5.8	6.1	---	---	---	---	---	---
22	6.4	4.1	5.5	6.5	5.6	6.0	---	---	---	---	---	---
23	6.4	5.2	5.7	6.1	5.4	5.7	---	---	---	---	---	---
24	7.1	4.3	5.5	7.2	5.3	5.9	---	---	---	---	---	---
25	6.9	4.2	5.9	6.7	5.1	5.8	---	---	---	---	---	---
26	7.6	5.4	6.2	6.2	5.1	5.6	11.0	10.6	10.8	---	---	---
27	7.1	5.7	6.5	6.5	5.2	5.7	11.2	10.6	10.9	---	---	---
28	6.9	5.5	6.0	6.1	5.1	5.5	12.7	10.9	11.5	---	---	---
29	6.8	5.3	5.9	6.7	5.0	5.8	---	---	---	---	---	---
30	6.7	5.2	5.9	6.2	5.3	5.7	---	---	---	---	---	---
31	9.9	5.2	6.6	---	---	---	---	---	---	---	---	---
MONTH	9.9	4.1	6.7	8.5	4.0	6.0	---	---	---	---	---	---

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	10.2	9.4	9.7	10.4	9.4	9.9	9.0	7.3	8.1
2	11.4	10.4	10.7	10.8	8.4	9.5	10.3	8.7	9.3	8.8	7.8	8.1
3	11.4	10.4	10.7	10.4	9.5	9.8	10.2	8.7	9.4	8.5	7.8	8.1
4	11.2	10.4	10.7	10.0	9.1	9.5	11.6	8.9	9.8	9.0	7.4	8.2
5	11.0	10.4	10.7	10.4	9.1	9.5	---	---	---	8.9	7.8	8.3
6	12.0	10.4	10.8	11.1	9.2	10.2	---	---	---	9.9	7.9	8.6
7	12.3	10.6	11.3	11.1	9.6	10.4	---	---	---	9.5	8.0	8.6
8	12.1	10.5	10.8	10.9	9.5	10.1	9.6	8.4	8.9	9.3	8.1	8.5
9	13.4	10.8	12.4	12.2	9.4	10.1	9.6	8.4	8.9	9.7	8.1	8.6
10	12.9	10.8	11.7	10.6	9.1	9.6	10.5	8.9	9.5	9.0	7.5	8.2
11	12.4	10.6	11.1	10.0	8.9	9.4	10.4	8.9	9.4	8.6	7.5	8.3
12	12.3	10.7	11.5	9.5	9.0	9.2	9.9	8.8	9.1	8.5	7.5	8.2
13	12.4	10.7	11.6	9.9	9.0	9.3	9.8	8.7	9.2	8.5	7.6	8.1
14	12.3	10.8	11.1	10.1	8.8	9.3	10.4	8.4	9.3	9.7	8.1	8.6
15	12.3	10.5	11.0	9.6	8.9	9.2	9.9	8.9	9.2	9.4	7.7	8.5
16	12.2	10.6	11.0	10.5	8.8	9.3	9.4	8.6	8.9	9.7	8.1	8.6
17	12.1	10.4	10.9	12.1	9.1	10.0	9.6	8.3	8.8	9.0	7.8	8.4
18	11.4	10.6	10.9	11.9	9.2	10.0	10.4	8.2	9.0	10.2	7.8	8.8
19	11.3	10.3	10.7	11.5	9.1	9.9	9.1	7.9	8.5	10.1	8.4	9.0
20	11.2	10.1	10.7	11.2	9.1	9.7	9.9	8.2	8.8	10.0	8.4	8.9
21	12.2	10.5	11.4	11.2	9.2	9.8	9.6	7.9	8.7	9.6	7.7	8.6
22	12.1	10.3	10.9	11.1	9.0	9.8	8.7	7.5	8.2	8.9	8.1	8.5
23	11.8	10.1	10.6	11.1	8.9	9.7	8.6	7.5	8.0	9.6	7.7	8.5
24	11.6	10.1	10.7	10.8	8.8	9.5	9.3	7.8	8.4	9.2	8.0	8.6
25	11.2	10.0	10.3	12.1	8.7	9.6	9.1	7.4	8.3	10.1	8.3	9.0
26	11.1	10.0	10.3	10.8	9.3	9.7	8.4	7.6	8.0	10.4	8.4	9.3
27	11.4	9.8	10.6	10.0	9.1	9.4	9.5	7.5	8.3	10.1	7.7	8.9
28	10.6	9.8	10.1	9.9	8.8	9.3	9.5	7.2	8.2	9.8	8.2	8.7
29	10.1	9.6	9.8	10.2	9.0	9.4	9.0	7.9	8.3	9.4	8.2	8.6
30	10.4	9.5	9.8	10.7	9.2	9.8	9.5	7.8	8.5	9.6	8.1	8.6
31	---	---	---	12.1	9.2	10.1	8.8	7.8	8.2	---	---	---
MONTH	---	---	---	12.2	8.4	9.7	---	---	---	10.4	7.3	8.5

07076517 LITTLE RED RIVER NEAR DEWEY

LOCATION.--Lat 35°26'16", long 91°44'48", in SW1/4NW1/4 sec.3, T.9 N., R.7 W., White County, Hydrologic Unit 11010014, near right bank on downstream side of bridge on State Highway 124, 1.3 mi northeast of Dewey.

DRAINAGE AREA.--1,340 mi^2.

PERIOD OF RECORD.--November 1996 to current year.

GAGE.--Water-stage recorder.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated since March 30, 1962, by Greers Ferry Lake 30.5 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	87	196	155	741	7300	3140	119	407	241	491	378
2	467	931	260	547	734	7300	2580	991	251	289	302	611
3	1420	486	262	1480	1310	7780	1590	662	225	772	1450	615
4	2160	231	156	539	431	8100	429	667	218	292	1120	324
5	1340	120	331	160	288	7980	255	215	482	706	506	233
6	1530	114	484	129	253	7660	225	101	264	451	263	191
7	287	131	787	125	206	7280	414	93	527	1160	1230	164
8	279	208	447	124	180	7390	801	92	874	1170	1810	311
9	241	450	931	120	181	7350	1730	90	187	936	2130	317
10	306	1210	450	119	284	7280	1640	89	288	569	2380	304
11	338	357	141	128	248	7270	1270	268	249	425	510	718
12	174	176	117	334	252	7440	318	230	495	1520	250	663
13	181	326	665	185	1080	7280	135	266	666	442	194	591
14	390	1150	301	292	2710	2190	121	234	1210	263	176	613
15	1010	333	165	379	7750	4830	133	226	1020	212	1110	302
16	382	461	243	546	8430	4800	139	1300	476	267	257	230
17	397	381	341	456	5210	4300	292	1530	289	893	183	243
18	407	152	326	601	1570	4110	196	1250	217	1720	429	460
19	115	129	281	686	1180	3960	115	398	384	2380	538	671
20	135	122	1270	620	1280	942	108	235	268	2520	893	377
21	216	117	1450	465	4040	528	107	293	230	2750	302	268
22	99	113	1140	379	3340	434	106	306	1660	540	507	508
23	250	114	352	323	4580	2540	109	264	565	711	1010	281
24	219	514	172	484	4630	1670	112	334	247	2080	970	242
25	438	1540	155	364	5910	817	108	248	244	2440	365	187
26	527	794	154	230	4770	933	106	1020	239	1150	274	370
27	254	469	165	208	4760	1780	263	415	243	476	183	258
28	166	341	173	190	6350	2310	206	349	1270	623	1070	295
29	93	272	720	468	---	1420	105	277	236	531	354	280
30	83	225	333	1490	---	1430	98	205	283	1060	251	219
31	85	---	164	885	---	1980	---	250	---	554	302	---
TOTAL	14296	12054	13132	13211	72698	138384	16951	13017	14214	30143	21810	11224
MEAN	461	402	424	426	2596	4464	565	420	474	972	704	374
MAX	2160	1540	1450	1490	8430	8100	3140	1530	1660	2750	2380	718
MIN	83	87	117	119	180	434	98	89	187	212	176	164
AC-FT	28360	23910	26050	26200	144200	274500	33620	25820	28190	59790	43260	22260

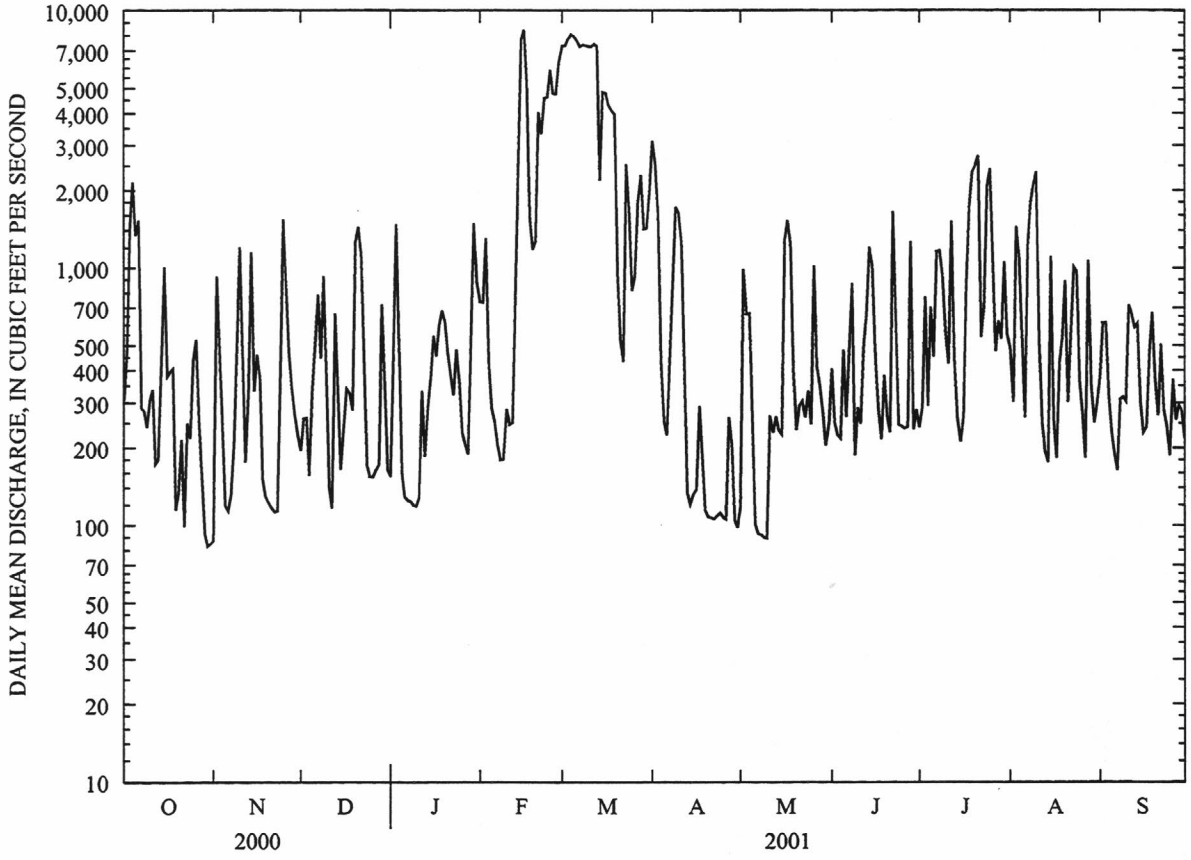
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	698	454	1362	1566	2560	3221	2194	1749	1418	1181	1031	604
MAX	1159	876	5060	4241	4394	4573	3445	3501	2688	1366	1529	855
(WY)	1999	1999	1997	1997	1998	1997	1998	1997	1997	1998	2000	2000
MIN	461	149	199	353	383	1154	565	420	474	972	704	374
(WY)	2001	1998	1998	2000	2000	2000	2001	2001	2001	2001	2001	2001

07076517 LITTLE RED RIVER NEAR DEWEY--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	341594		371134			
ANNUAL MEAN	933		1017		1232	
HIGHEST ANNUAL MEAN					1576	1998
LOWEST ANNUAL MEAN					949	2000
HIGHEST DAILY MEAN	4150	Jun 24	8430	Feb 16	21300	Apr 5 1997
LOWEST DAILY MEAN	83	Oct 30	83	Oct 30	83	Oct 30 2000
ANNUAL SEVEN-DAY MINIMUM	137	Jan 24	108	Apr 20	92	Nov 10 1999
MAXIMUM PEAK FLOW			11000	Feb 16	[a]25300	Apr 5 1997
MAXIMUM PEAK STAGE			16.96	Feb 16	28.25	Apr 5 1997
INSTANTANEOUS LOW FLOW			82	Oct 20,31	82	Oct 20,31 2000
ANNUAL RUNOFF (AC-FT)	677600		736100		892800	
10 PERCENT EXCEEDS	2410		2400		4060	
50 PERCENT EXCEEDS	480		377		838	
90 PERCENT EXCEEDS	142		129		160	

[a]From rating curve extended above 12,000 ft^3/s



07077000 WHITE RIVER AT DEVALLS BLUFF

LOCATION.--Lat 34°47'25", long 91°26'45", in SE1/4 sec.17, T.2 N., R.4 W., Prairie County, Hydrologic Unit 08020301, near center of span on downstream side of bridge on U.S. Highway 70, 1.0 mi northeast of DeValls Bluff, 7.5 mi downstream from Wattensaw Bayou, 24.1 mi upstream from Cache River, and at mile 125.3.

DRAINAGE AREA.--23,431 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1945 (large part of floodflow above station overflowed into Cache River and was not included in the records), October 1949 to September 1970, October 1988 to current year. Monthly discharge only for some periods, published in WSP 1311. Daily stages for the period October 1970 to date published in reports of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 152.93 ft above sea level. Prior to Dec. 22, 1933, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Some regulation since 1943 by Norfork Lake, capacity, 1,983,000 acre-ft, since 1948 by Clearwater Lake (Missouri), capacity, 413,700 acre-ft, since July 24, 1951, by Bull Shoals Lake, capacity, 5,408,000 acre-ft, since Sept. 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 acre-ft, since Mar. 30, 1962, by Greers Ferry Lake, capacity, 2,926,500 acre-ft, and since Dec. 26, 1963, by Beaver Lake, capacity, 1,951,500 acre-ft. Satellite telemeter at station.

COOPERATION.--Gage-height record was provided by the U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 23, 1927, reached a stage of 34.6 ft. Flood of Feb. 3, 1949, reached a stage of 31.35 ft, discharge, 220,000 ft³/s by current-meter measurement, furnished by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6090	3940	14600	8600	12900	56000	17100	10400	6440	6330	11500	10600
2	5920	3860	13800	8320	13200	55800	17200	9650	6330	5950	10300	9490
3	5850	3960	12800	8120	13700	55500	17600	9010	6510	6140	10200	8470
4	5900	4520	11800	8170	14400	55600	17100	8850	6390	6600	12000	7710
5	6480	4980	10900	8820	15200	55400	16300	9110	6000	6800	14100	6960
6	7560	5200	9930	10100	15800	54800	15500	9380	5580	6530	15600	6210
7	8870	5040	9130	11300	15500	54000	15100	9070	5400	6480	15600	5560
8	9490	4900	8620	11100	14500	53000	14700	8460	5470	6550	14600	5320
9	8910	5020	8310	9980	13500	51800	14400	7860	6060	6930	13500	6360
10	7950	5780	8140	8620	12900	50400	14700	7380	6540	7260	13300	8480
11	6930	7550	8460	7420	12400	49000	14900	7310	6330	7260	14100	10700
12	6100	9570	8570	6660	11800	48900	15100	7380	5790	7170	14800	11300
13	5650	10300	8370	6920	12300	48200	15300	7320	5230	7840	15200	10900
14	5500	10100	8050	8180	16000	47000	15200	7340	5060	8790	14500	10100
15	5450	9810	8620	9010	20400	45500	15000	7340	5720	8510	13100	9630
16	5510	9560	12100	9140	29600	43700	14400	6970	7010	8000	11500	9760
17	5810	9070	15100	8990	40600	42000	13600	6460	8010	7670	10400	9880
18	5650	8820	15400	9120	45600	40100	12900	6500	8720	7630	9670	9830
19	5280	8950	14400	10100	47300	38000	12600	6740	9040	7400	8870	9550
20	5100	8980	13300	11100	48700	36100	12500	6900	8690	7350	8210	8990
21	4870	8840	12900	11400	49900	33900	12100	7060	8190	8740	8120	8600
22	4650	8910	14000	11500	50700	31700	11800	7360	7990	11100	8260	8550
23	4500	8890	15500	11400	51400	29600	11800	7280	8110	12200	7840	8460
24	4400	9910	16000	11300	52000	27700	11700	6840	8200	11900	7580	8320
25	4370	14100	16100	10900	53200	25700	11600	6360	7640	11300	8720	7960
26	4370	16600	15500	10600	54200	23500	11500	5990	6850	11100	10600	7530
27	4370	16500	14100	10200	55000	21600	11500	5730	6020	11600	12000	7120
28	4430	15900	12400	9680	55900	20200	11800	5860	5290	12500	12600	6840
29	4320	15400	10900	9600	---	18900	11700	5990	5370	12900	12500	6650
30	4180	15100	9730	11000	---	18000	11200	6350	6290	12700	12100	6590
31	4090	---	9070	12300	---	17300	---	6630	---	12200	11500	---
TOTAL	178550	270060	366600	299650	848600	1248900	417900	230880	200270	271430	362870	252420
MEAN	5760	9002	11830	9666	30310	40290	13930	7448	6676	8756	11710	8414
MAX	9490	16600	16100	12300	55900	56000	17600	10400	9040	12900	15600	11300
MIN	4090	3860	8050	6660	11800	17300	11200	5730	5060	5950	7580	5320
AC-FT	354200	535700	727200	594400	1683000	2477000	828900	458000	397200	538400	719800	500700

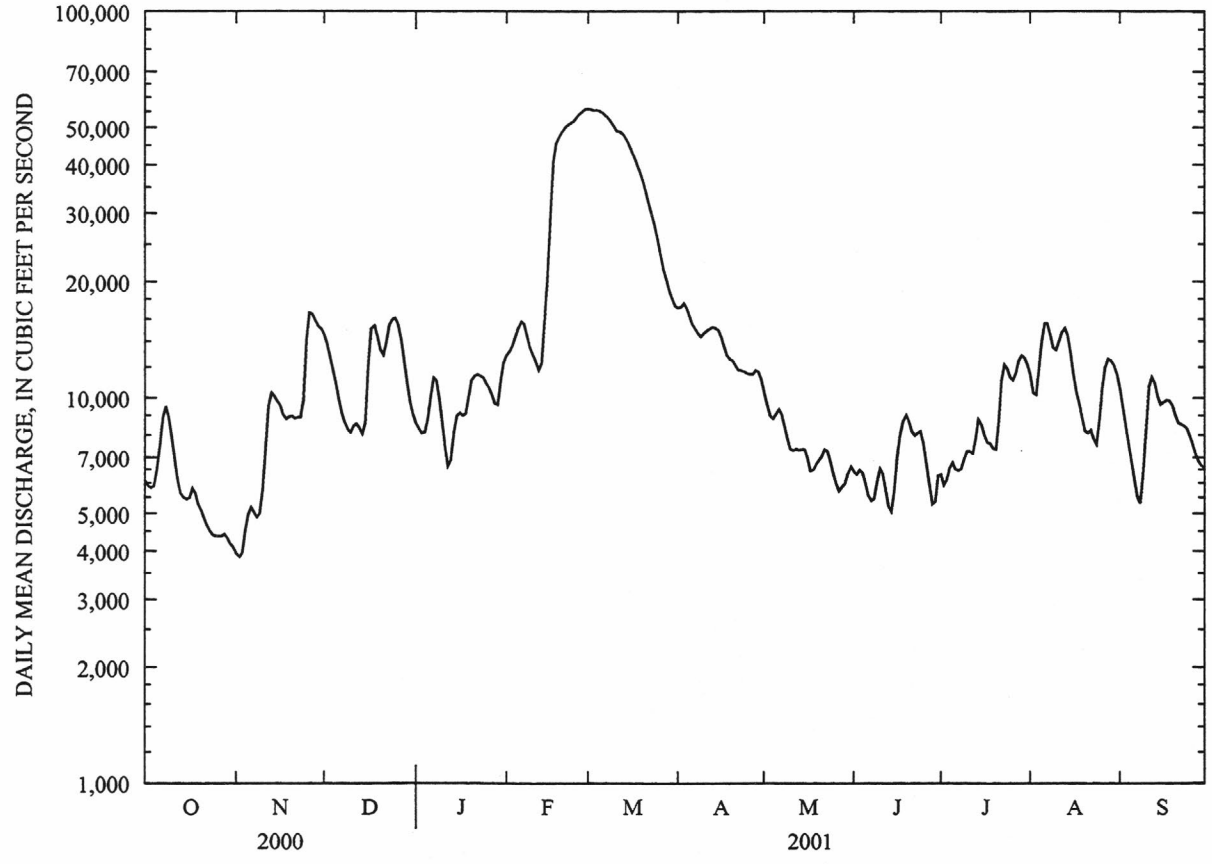
07077000 WHITE RIVER AT DEVALLS BLUFF--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-70, 1989-01, BY WATER YEAR (WY)

MEAN	11900	15920	23770	30430	36210	40540	41870	40870	25940	19390	15970	12710
MAX	30100	48890	67180	110000	107100	73060	75360	90730	73590	48560	48900	36450
(WY)	1950	1958	1952	1950	1950	1989	1957	1957	1957	1951	1957	1950
MIN	3715	3831	5260	6042	7974	13240	13230	7448	6676	7822	7112	4276
(WY)	1955	1955	1955	1964	1964	1996	1963	2001	2001	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950-70, 1989-01	
ANNUAL TOTAL	4966970		4948130			
ANNUAL MEAN	13570		13560		26240	
HIGHEST ANNUAL MEAN					51270	1950
LOWEST ANNUAL MEAN					12230	1963
HIGHEST DAILY MEAN	35300	Jun 3	56000	Mar 1	154000	Jan 19 1950
LOWEST DAILY MEAN	3860	Nov 2	3860	Nov 2	3230	Sep 29 1954
ANNUAL SEVEN-DAY MINIMUM	4110	Oct 28	4110	Oct 28	3290	Sep 26 1954
MAXIMUM PEAK FLOW			56100	Feb 28	154000	Jan 19 1950
MAXIMUM PEAK STAGE			22.40	Feb 28	28.42	Jan 20 1950
INSTANTANEOUS LOW FLOW			3840	Nov 2	3230	[a]Sep 29 1954
ANNUAL RUNOFF (AC-FT)	9852000		9815000		19010000	
10 PERCENT EXCEEDS	22100		28500		54200	
50 PERCENT EXCEEDS	13300		9570		18800	
90 PERCENT EXCEEDS	6660		5690		7910	

[a]Also Sept. 30 to Oct. 1, and Oct. 29, 1954



07077000 WHITE RIVER AT DEVALLS BLUFF--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-60, 1968-70, 1974-95, and 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
JAN											
24...	1010	80020	80513	13800	785	12.4	95	8.2	255	5.2	120
FEB											
26...	1030	80020	80513	65100	787	8.6	73	7.0	163	9.4	75
MAR											
27...	0900	80020	80513	25800	782	9.2	83	7.9	239	12.0	110
APR											
12...	0830	80020	80513	15000	774	8.1	88	8.3	283	20.4	140
MAY											
07...	0830	80020	80513	9180	765	7.9	92	8.4	317	22.8	160
SEP											
06...	1330	80020	80513	6160	762	7.8	99	8.5	306	27.6	150

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JAN										
24...	28.5	11.4	5.70	.2	4.0	6	108	5.6	E.1	7.4
FEB										
26...	19.2	6.52	1.73	.1	1.9	5	66	3.1	<.2	5.4
MAR										
27...	26.8	11.1	1.52	.1	2.9	5	105	4.6	<.2	6.2
APR										
12...	32.9	14.0	1.34	.1	3.1	5	139	5.2	<.2	6.4
MAY										
07...	37.7	15.6	1.23	.2	4.9	6	143	7.0	E.1	7.6
SEP										
06...	33.8	15.5	1.62	.2	4.9	7	148	7.0	<.2	6.9

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, TOTAL (MG/L AS N) (00600)
JAN									
24...	.18	5070	136	129	<.041	.37	--	<.006	.67
FEB									
26...	.14	17800	101	80	<.041	.43	--	E.003	.93
MAR									
27...	.20	10000	144	117	<.041	.34	--	E.003	.59
APR									
12...	--	--	160	--	<.041	.39	--	<.006	.45
MAY									
07...	.26	4680	189	160	<.041	.37	.023	.007	--
SEP									
06...	.22	2630	--	158	<.040	.30	--	<.006	--

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JAN											
24..	--	<.060	E.014	E.058	1.3	<1	E20	E7	93	55	2050
FEB											
26..	.055	<.060	.018	.137	12	E93	E32	240	64	210	36900
MAR											
27..	--	<.060	E.010	.065	2.8	E4	E8	46	95	96	6690
APR											
12..	--	<.060	<.018	.071	--	E80	E50	27	44	182	7370
MAY											
07..	--	<.060	<.018	.073	1.2	47	E7	47	96	88	2180
SEP											
06..	--	<.060	<.020	.060	1.0	E6	E5	E6	97	81	1350

07077380 CACHE RIVER AT EGYPT

LOCATION.--Lat 35°51'28", long 90°56'00", in NW1/4SE1/4 sec.12, T.14 N., R.1 E., Craighead County, Hydrologic Unit 08020302, on right bank on downstream side of bridge on State Highway 91, 1.0 mi southeast of Egypt, 2.2 mi northwest of Winesburg, and at mile 143.

DRAINAGE AREA.--701 mi^2.

PERIOD OF RECORD.--October 1964 to current year. Daily stages and results of discharge measurements for July 1937 to December 1940, and December 1944 to date are published in reports of U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1972: 1966. WRD Ark. 1973: Drainage area. WRD Ark. 2000: 1998-99.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft above sea level (levels by U.S. Army Corps of Engineers).

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

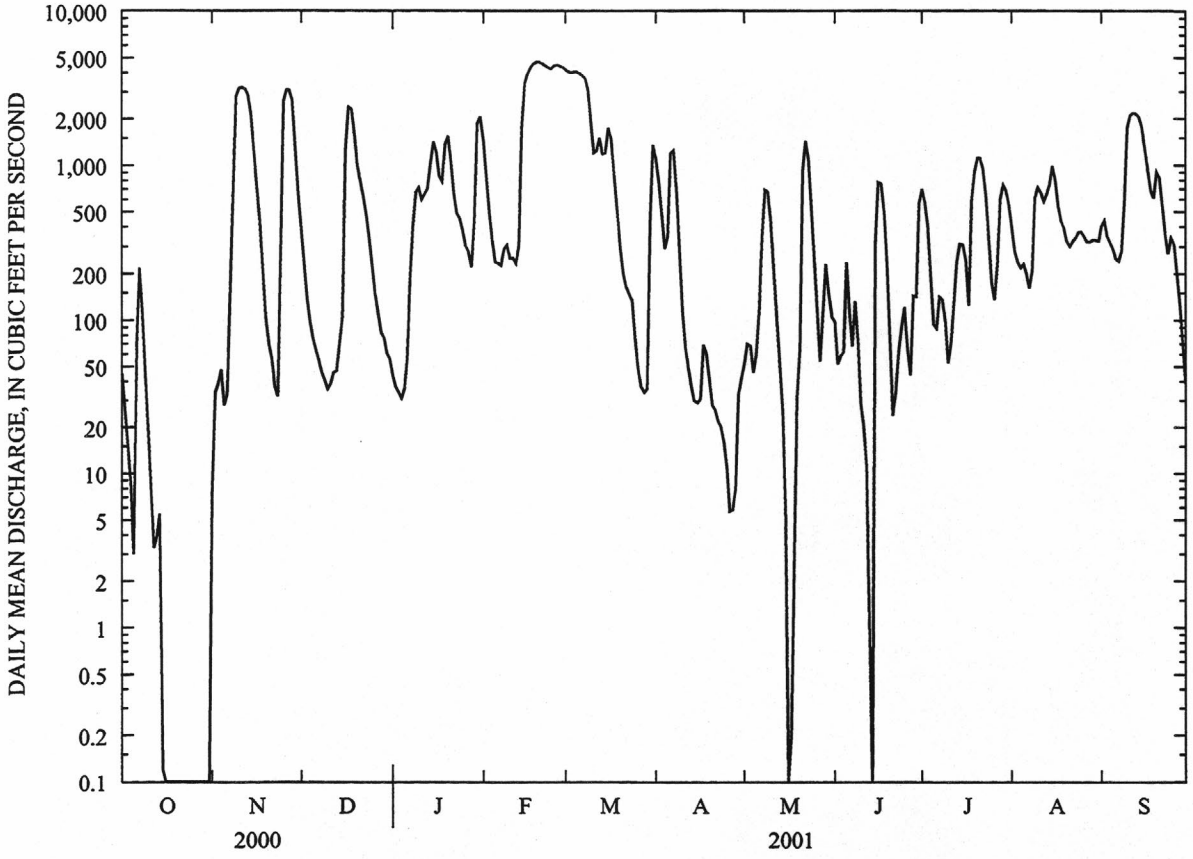
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	7.4	377	44	1450	4220	1120	52	98	704	398	407
2	28	34	229	37	819	4090	782	70	52	585	278	441
3	16	39	138	34	495	4010	497	68	59	407	240	350
4	8.6	48	98	31	330	4050	291	46	63	211	220	317
5	3.0	28	76	36	240	4050	354	60	237	95	232	292
6	71	33	64	57	235	3960	1200	114	112	89	201	251
7	219	157	55	185	227	3850	1250	353	68	142	162	243
8	115	591	46	401	291	3670	694	695	133	137	210	280
9	40	2820	41	673	310	3110	286	676	73	100	618	577
10	18	3180	36	722	253	2000	115	443	29	53	719	1760
11	7.7	3220	39	604	252	1210	67	220	20	71	662	2110
12	3.3	3140	46	657	233	1250	50	91	11	131	585	2180
13	3.9	2870	47	708	307	1510	37	45	1.2	241	654	2160
14	5.5	2150	72	1060	1770	1190	30	25	.00	313	759	2060
15	.12	1300	107	1430	3430	1210	29	6.1	318	308	994	1800
16	.00	736	1270	1220	3970	1760	31	.00	781	245	800	1330
17	.00	450	2390	858	4360	1490	69	.20	764	125	545	931
18	.00	236	2310	788	4580	871	61	6.2	493	596	431	691
19	.00	107	1580	1360	4730	488	41	32	227	909	392	617
20	.00	70	995	1560	4720	292	28	66	68	1120	325	908
21	.00	56	787	1080	4630	202	26	938	24	1120	302	834
22	.00	37	624	665	4470	165	22	1450	34	948	325	551
23	.00	32	474	492	4340	149	20	1100	63	639	343	364
24	.00	280	339	452	4270	134	16	623	91	343	373	271
25	.00	2620	218	380	4460	77	11	310	122	176	374	343
26	.00	3080	150	303	4500	49	5.7	123	67	136	352	308
27	.00	3090	109	275	4460	37	5.8	54	44	231	323	202
28	.00	2660	83	222	4370	34	8.0	104	144	611	322	127
29	.00	1440	77	443	---	36	33	232	143	750	334	71
30	.00	642	61	1870	---	432	42	151	574	685	330	39
31	.00	---	56	2070	---	1360	---	105	---	559	327	---
TOTAL	584.12	35153.4	12994	20717	68502	50956	7221.5	8258.50	4913.20	12780	13130	22815
MEAN	18.8	1172	419	668	2446	1644	241	266	164	412	424	760
MAX	219	3220	2390	2070	4730	4220	1250	1450	781	1120	994	2180
MIN	.00	7.4	36	31	227	34	5.7	.00	.00	53	162	39
AC-FT	1160	69730	25770	41090	135900	101100	14320	16380	9750	25350	26040	45250
CFSM	.03	1.67	.60	.95	3.49	2.34	.34	.38	.23	.59	.60	1.08
IN.	.03	1.87	.69	1.10	3.64	2.70	.38	.44	.26	.68	.70	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	370	780	1260	1296	1276	1224	1233	1061	492	419	422	439
MAX	2437	2942	3547	4249	3552	3543	4759	4256	1655	1528	2117	1637
(WY)	1985	1997	1983	1991	1989	1997	1979	1973	2000	1976	1998	1965
MIN	12.5	4.50	45.0	11.8	87.4	216	75.2	84.9	29.2	102	85.8	75.1
(WY)	1995	2000	1977	1981	1996	1996	1981	1987	1988	1968	1968	1971

07077380 CACHE RIVER AT EGYPT--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL TOTAL	255036.52		258024.72			
ANNUAL MEAN	697		707		854	
HIGHEST ANNUAL MEAN					1762	1973
LOWEST ANNUAL MEAN					299	1972
HIGHEST DAILY MEAN	3840	Jun 1	4730	Feb 19	7940	Apr 25 1973
LOWEST DAILY MEAN	.00	Oct 16	.00	Oct 16	.00	Nov 6 1982
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 16	.00	Oct 16	.00	Oct 14 1991
MAXIMUM PEAK FLOW			4760	Feb 20	8490	Jan 6 1966
MAXIMUM PEAK STAGE			20.13	Feb 20	21.88	Jan 6 1966
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	505900		511800		618800	
ANNUAL RUNOFF (CFSM)	.99		1.01		1.22	
ANNUAL RUNOFF (INCHES)	13.53		13.69		16.55	
10 PERCENT EXCEEDS	2630		2150		2720	
50 PERCENT EXCEEDS	252		253		296	
90 PERCENT EXCEEDS	25		16		37	



07077500 CACHE RIVER AT PATTERSON

LOCATION.--Lat 35°16'10", long 91°14'15", in SE1/4 sec.31, T.8 N., R.2 W., Woodruff County, Hydrologic Unit 08020302, at bridge on U.S. Highway 64 at Patterson, 10.9 mi upstream from Maple Slough, and at mile 77.2.

DRAINAGE AREA.--1,037 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1931, February 1937, August 1937 to September 1960, October 1965 to September 1977, October 1997 to current year 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 U.S. Army Corps of Engineers, Memphis District. Gage-height records July 11, 1916, to Dec. 31, 1931, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 182.96 ft above sea level. Prior to Oct. 3, 1966, nonrecording and recording gages at or within 1,000 ft of old U.S. Highway 64 crossing, 1.4 mi downstream as follows: Prior to 1931, nonrecording gage at datum 183.17 ft above sea level; 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 below sea level; Jan. 1, 1950, to Oct. 2, 1966, water-stage recorder at present datum.

REMARKS.--Water-discharge records fair except estimated daily discharges and those below 100 ft^3/s, which are poor. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 16.1 ft, present datum, from floodmarks, discharge, 24,500 ft^3/s, due to break in White River levee.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	10	2650	e155	841	4720	356	17	947	177	797	281
2	256	12	2540	e117	894	4440	415	16	1220	171	796	282
3	227	11	2190	e97	1090	4230	555	13	1240	217	761	285
4	171	12	1730	e78	1340	4410	782	11	1050	299	694	275
5	115	12	1290	64	1410	4680	1000	11	761	377	597	262
6	101	11	943	57	1260	4720	1080	17	473	429	485	260
7	103	6.6	683	54	1030	4560	1020	30	283	447	394	258
8	75	22	476	55	829	4320	849	40	181	412	332	244
9	53	178	329	56	675	4100	680	47	149	337	294	231
10	47	367	234	60	552	3930	651	67	147	260	295	218
11	67	483	172	72	459	3800	708	109	126	200	350	206
12	86	638	132	105	399	4080	692	181	100	171	646	204
13	78	960	114	167	389	4160	582	244	81	178	839	245
14	58	1670	113	246	605	3710	442	273	68	203	799	353
15	41	2260	119	318	1110	3100	327	262	56	247	748	516
16	29	2510	391	382	2080	2840	232	217	48	290	718	745
17	21	2540	1030	442	3250	2590	154	150	45	319	733	952
18	15	2380	1430	583	4280	2260	106	96	45	326	771	1120
19	11	2010	e1380	820	4870	2040	76	62	65	312	792	1240
20	7.5	1590	e1250	1080	4930	1900	57	43	164	301	781	1240
21	5.1	1190	e1380	1200	4640	1730	47	91	268	300	730	1140
22	4.4	899	e1490	1200	4330	1490	46	247	315	323	652	958
23	4.5	643	e1550	1200	4100	1270	51	307	304	368	557	789
24	4.1	676	e1290	1220	4030	1090	50	332	248	422	472	670
25	4.2	1240	e1050	1180	4510	923	46	462	174	486	399	600
26	5.3	1810	e810	1040	4890	771	38	686	122	540	349	529
27	6.3	1880	e527	875	5120	650	32	826	95	581	320	445
28	7.3	1920	e371	728	5040	550	28	878	90	703	313	361
29	7.8	2230	e280	645	---	475	24	977	131	823	303	294
30	8.7	2540	e224	682	---	410	20	937	175	859	286	243
31	9.4	---	e186	788	---	358	---	857	---	819	280	---
TOTAL	1883.6	32710.6	28354	15766	68953	84307	11146	8506	9171	11897	17283	15446
MEAN	60.8	1090	915	509	2463	2720	372	274	306	384	558	515
MAX	256	2540	2650	1220	5120	4720	1080	977	1240	859	839	1240
MIN	4.1	6.6	113	54	389	358	20	11	45	171	280	204
AC-FT	3740	64880	56240	31270	136800	167200	22110	16870	18190	23600	34280	30640

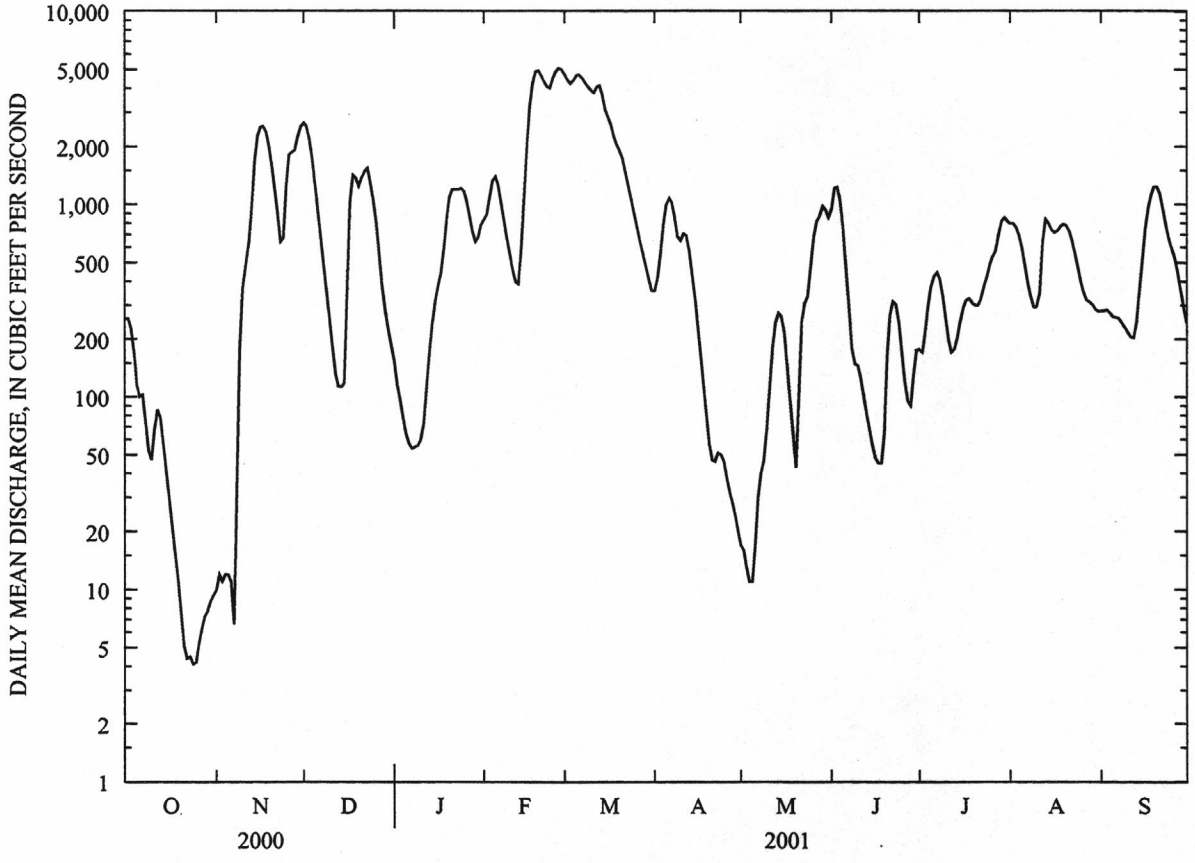
07077500 CACHE RIVER AT PATTERSON--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928-31, 1937-77, 1998-01, BY WATER YEAR (WY)

MEAN	385	738	1472	1961	2182	2266	2016	1571	902	476	442	412
MAX	3100	5297	6168	8809	8817	5770	7586	6075	5890	2093	3009	2210
(WY)	1985	1958	1958	1950	1950	1945	1979	1973	1928	1945	1998	1965
MIN	8.32	16.3	67.3	37.8	68.6	168	133	150	67.7	57.6	47.1	45.5
(WY)	1988	1972	1954	1964	1963	1941	1981	1941	1941	1954	1944	1943

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928-31, 1937-77, 1998-01	
ANNUAL TOTAL	280252.2		305423.2			
ANNUAL MEAN	766		837		1236	
HIGHEST ANNUAL MEAN					2984	1950
LOWEST ANNUAL MEAN					308	1931
HIGHEST DAILY MEAN	3220	Jun 10	5120	Feb 27	12100	Jun 27 1928
LOWEST DAILY MEAN	4.1	Oct 24	4.1	Oct 24	.00	Oct 27 1956
ANNUAL SEVEN-DAY MINIMUM	4.8	Oct 21	4.8	Oct 21	.00	Oct 24 1978
MAXIMUM PEAK FLOW			5210	Feb 27	13200	Jan 24 1937
MAXIMUM PEAK STAGE			10.93	Feb 27	[a]13.21	Jan 24 1937
INSTANTANEOUS LOW FLOW			4.0	Oct 24-25	.00	Oct 27 1956
ANNUAL RUNOFF (AC-FT)	555900		605800		895400	
10 PERCENT EXCEEDS	2370		2260		3640	
50 PERCENT EXCEEDS	388		391		430	
90 PERCENT EXCEEDS	83		39		66	

[a]At present datum
[e]Estimated



07077500 CACHE RIVER AT PATTERSON--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1952 to May 1955, October 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 20...	1315	81213	80513	1760	785	9.0	70	7.5	176	6.1	50
JAN 31...	1030	81213	80513	805	760	7.6	63	7.4	149	7.3	44
MAR 06...	1030	81213	80513	4990	775	9.0	75	6.3	73	8.4	23
MAY 01...	1045	81213	80513	18	765	4.2	47	7.8	145	21.0	53
JUL 26...	0845	81213	80513	542	760	4.4	58	7.8	362	29.7	150
SEP 05...	0800	81213	80513	274	763	5.2	65	8.2	504	26.6	210

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)
NOV 20...	12.0	4.90	6.40	.6	10.0	27	48	11.0	17.0	.16	546
JAN 31...	11.0	4.00	4.90	.6	9.7	30	45	7.8	10.0	.12	196
MAR 06...	5.60	2.10	2.90	.4	4.1	25	25	2.4	4.6	.07	687
MAY 01...	14.0	4.30	4.00	.4	6.6	20	58	4.4	6.3	.13	4.67
JUL 26...	37.0	13.0	3.50	.7	19.0	22	57	9.4	20.0	.30	328
SEP 05...	55.0	18.0	4.20	.7	25.0	20	208	15.0	28.0	.43	233

DATE	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (070300)	SOLIDS SUM OF CONSTITUENTS, DISSOLVED (MG/L) (070301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV 20...	115	92	.040	.74	.05	.250	1.11	.260	.033	.010	.70
JAN 31...	90	76	.044	1.4	.06	.260	1.15	.270	.033	.010	1.4
MAR 06...	51	38	.035	1.5	.05	--	--	.220	--	<.010	1.5
MAY 01...	96	76	.056	1.3	.07	--	--	.240	--	<.010	1.2
JUL 26...	224	139	.026	.86	.03	.640	2.83	.650	.033	.010	.83
SEP 05...	315	271	.020	.70	.03	--	--	.120	--	<.010	.68

DATE	NITROGEN, TOTAL (MG/L) AS N) (00600)	ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHORUS DISSOLVED (MG/L AS P) (00666)	ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV 20...	1.0	.337	.130	.110	.220	170	190	220	94	85	404
JAN 31...	1.7	.153	.080	.050	.300	2600	130	780	99	232	504
MAR 06...	1.7	.123	.030	.040	.310	150	92	240	93	273	3680
MAY 01...	1.5	.184	.070	.060	.340	E16	E23	E10	99	140	6.8
JUL 26...	1.5	.184	.060	.060	.110	E80	77	140	96	77	113
SEP 05...	.82	.337	.100	.110	.150	160	180	200	100	89	66

Remark codes used in this report:
< -- Less than
E -- Estimated value

07077555 CACHE RIVER NEAR COTTON PLANT

LOCATION.--Lat 35°02'07", long 91°19'19", in SE1/4SW1/4 sec.21, T.5 N.,R.3 W., Woodruff County, Hydrologic Unit 08020302, on left bank on downstream side of bridge on county road, 1.4 mi upstream from Roaring Slough, and 4.2 mi northwest of Cotton Plant.

DRAINAGE AREA.--1,172 mi², of which an estimated 20 mi² is probably noncontributing.

PERIOD OF RECORD.--April 1987 to current year.

REVISED RECORDS.--WRD ARKANSAS 1989: 1988(M).

GAGE.--Water-stage recorder. Datum of gage is 164.17 ft above sea level. Nonrecording gage Oct. 10, 1989 to Sept. 27, 1990 at same site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	7.8	1790	874	1100	5410	1730	90	850	148	549	303
2	221	8.7	1850	741	1060	5460	1570	82	870	168	574	320
3	236	8.6	1930	573	1030	5430	1400	75	875	172	587	315
4	242	11	2000	379	1000	5480	1220	71	899	176	587	299
5	228	12	2030	258	998	5430	1050	67	950	196	586	287
6	205	13	2030	224	1040	5390	954	63	1000	230	580	277
7	165	13	1980	216	1120	5380	919	65	1050	269	571	267
8	131	17	1900	212	1190	5360	932	69	998	308	547	258
9	115	24	1800	198	1230	5260	971	76	876	338	494	257
10	98	42	1660	179	1220	5110	986	84	717	351	423	256
11	79	126	1500	170	1170	4970	969	92	527	343	351	246
12	70	214	1330	184	1100	5140	914	108	329	300	361	231
13	77	306	1150	190	1060	5130	866	134	209	261	529	218
14	89	387	997	210	1130	5100	824	176	165	240	628	211
15	89	474	824	247	1380	5110	797	218	148	225	660	223
16	78	573	903	303	1630	4930	754	247	135	217	673	259
17	63	730	1010	343	1830	4640	682	257	116	226	673	311
18	48	982	1070	398	2010	4310	570	243	100	249	667	380
19	36	1240	1110	482	2260	3990	416	202	90	269	654	484
20	28	1460	1150	563	2620	3740	278	163	85	280	638	589
21	22	1570	1230	641	3190	3490	199	196	91	283	628	661
22	18	1610	1260	725	3710	3260	164	228	138	281	624	740
23	15	1620	1310	830	3980	3040	146	225	197	282	620	805
24	13	1730	1330	934	4190	2830	139	265	244	290	609	840
25	12	1780	1350	1020	4500	2660	132	301	262	299	582	836
26	10	1760	1360	1090	4710	2520	127	326	249	321	537	810
27	9.7	1730	1350	1120	4980	2390	120	365	209	352	472	765
28	9.2	1710	1310	1150	5280	2240	113	438	168	386	408	698
29	8.8	1730	1240	1170	---	2100	105	536	142	424	347	632
30	8.6	1750	1120	1180	---	1980	97	662	131	470	311	553
31	8.2	---	998	1150	---	1850	---	800	---	512	299	---
TOTAL	2630.5	23639.1	43872	17954	61718	129130	20144	6924	12820	8866	16769	13331
MEAN	84.9	788	1415	579	2204	4165	671	223	427	286	541	444
MAX	242	1780	2030	1180	5280	5480	1730	800	1050	512	673	840
MIN	8.2	7.8	824	170	998	1850	97	63	85	148	299	211
AC-FT	5220	46890	87020	35610	122400	256100	39960	13730	25430	17590	33260	26440
CFSM	.07	.67	1.21	.49	1.88	3.55	.57	.19	.36	.24	.46	.38
IN.	.08	.75	1.39	.57	1.96	4.10	.64	.22	.41	.28	.53	.42

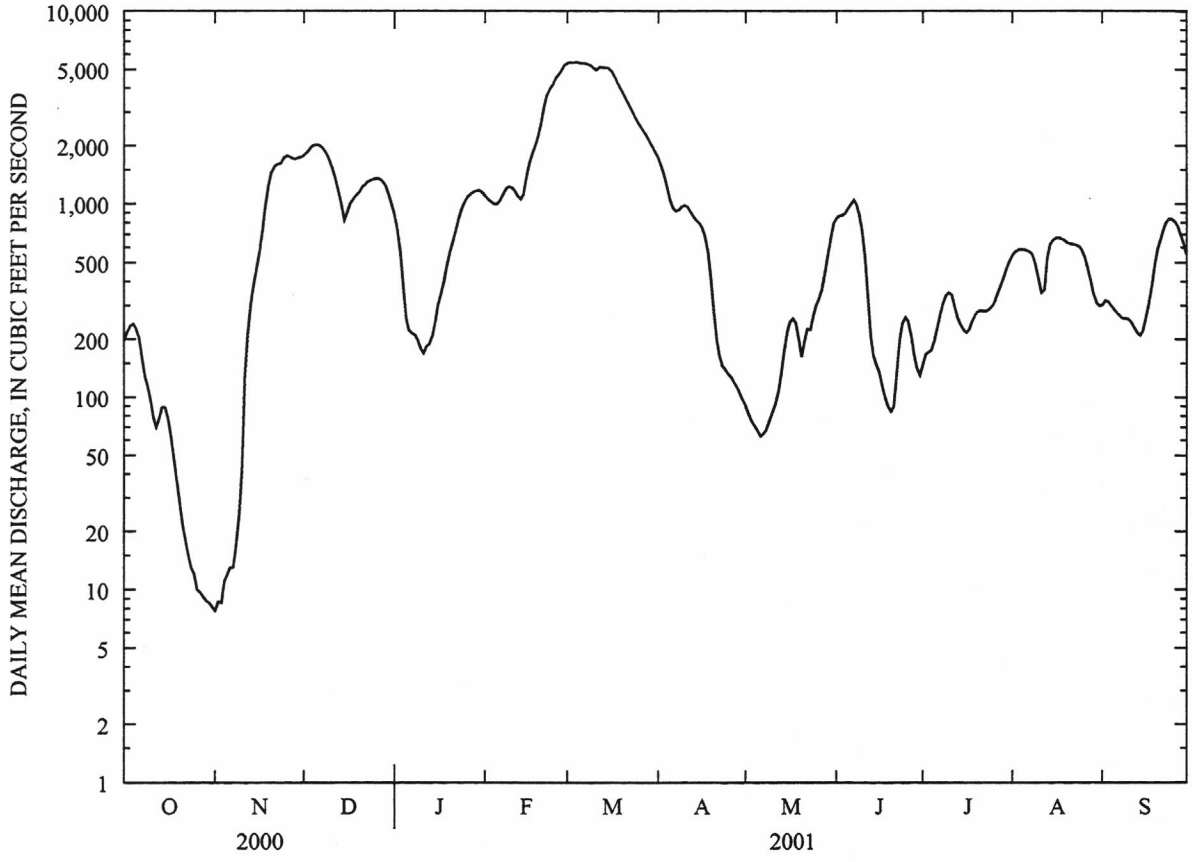
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	546	1055	2064	2228	2352	2443	1721	1168	734	666	693	449
MAX	2067	3211	4762	6779	5238	5759	3585	3595	2026	1413	2591	748
(WY)	1991	1997	1994	1991	1989	1989	1997	1991	2000	1994	1998	1991
MIN	55.9	16.6	44.9	579	377	303	515	217	116	274	348	201
(WY)	1988	2000	1990	2001	2000	1996	1995	1987	1988	1990	1990	1987

07077555 CACHE RIVER NEAR COTTON PLANT--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	295644.6		357797.6			
ANNUAL MEAN	808		980		1350	
HIGHEST ANNUAL MEAN					2356	1989
LOWEST ANNUAL MEAN					560	1996
HIGHEST DAILY MEAN	3060	Jun 17	5480	Mar 4	9770	Dec 28 1987
LOWEST DAILY MEAN	7.8	Nov 1	7.8	Nov 1	7.8	Nov 1 2000
ANNUAL SEVEN-DAY MINIMUM	8.6	Oct 28	8.6	Oct 28	8.6	Oct 28 2000
MAXIMUM PEAK FLOW			5560	Mar 4	9950	Dec 28 1987
MAXIMUM PEAK STAGE			19.12	Mar 4	[a]20.22	Dec 28 1987
INSTANTANEOUS LOW FLOW			7.8	Nov 1-2	[b]7.8	Dec 1,2 1999
ANNUAL RUNOFF (AC-FT)	586400		709700		978100	
ANNUAL RUNOFF (CFSM)	.69		.84		1.15	
ANNUAL RUNOFF (INCHES)	9.38		11.36		15.65	
10 PERCENT EXCEEDS	1940		2310		3330	
50 PERCENT EXCEEDS	519		536		710	
90 PERCENT EXCEEDS	104		81		133	

[a]From floodmark
[b]Also Nov. 1-2, 2000



07077700 BAYOU DEVIEW NEAR MORTON

LOCATION.--Lat 35°15'07", long 91°06'37", near center of secs.4, 5, 8, and 9, T.7 N.,R.1 W., Woodruff County, Hydrologic Unit 08020302, at bridge on U.S. Highway 64, 1.0 mi west of Morton, and at mile 39.6.

DRAINAGE AREA.--421 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to May 1973, August 1973 to September 1977, October 1997 to current year in reports of Geological Survey. February 1939 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of U.S. Army Corps of Engineers, Memphis District.

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

GAGE.--Water-stage recorder. Datum of gage is 187.71 ft above sea level. Nonrecording gage prior to Nov. 8, 1949. At datum 0.26 ft below sea level prior to Jan. 1, 1952.

REMARKS.--Water-discharge records good except estimated daily discharges and those below 10 ft^3/s, which are poor. Satellite telemeter at station.

COOPERATION.--Gage-height records furnished by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	.00	711	e41	962	2270	593	.00	868	24	296	69
2	6.1	.00	461	e33	909	2240	650	.00	909	58	214	140
3	2.7	.00	309	e29	700	2220	556	.00	702	51	126	180
4	.66	.00	205	e25	502	2270	580	.00	434	28	64	156
5	.00	.00	125	23	381	2240	648	.00	277	13	36	128
6	47	.00	73	29	310	2200	491	.00	163	10	21	88
7	84	.00	45	45	278	2150	329	1.9	144	6.8	7.8	58
8	49	31	30	63	281	2090	221	25	111	3.7	4.0	39
9	23	414	23	73	287	2010	141	41	53	1.7	5.5	29
10	9.1	663	18	71	291	1950	96	32	23	.12	34	29
11	3.5	677	16	72	270	1880	61	18	6.9	.89	125	29
12	.83	493	12	85	235	1920	42	9.4	1.2	11	236	33
13	.00	421	13	103	290	1870	29	5.1	.00	47	310	26
14	.00	453	46	140	737	1790	22	1.4	.00	127	382	14
15	.00	410	116	196	1190	1750	19	.02	.01	124	403	7.9
16	.00	280	858	265	1670	1740	15	.00	7.9	82	350	4.9
17	.00	165	1270	265	1950	1710	11	.00	16	41	269	1.9
18	.00	79	1510	248	e2130	1660	7.6	.00	8.2	19	226	.28
19	.00	39	1590	446	e2220	1570	5.6	.00	3.4	8.4	198	1.5
20	.00	20	1580	655	e2270	1420	4.8	.00	.52	30	153	25
21	.00	9.7	1450	727	e2250	1200	3.8	142	.00	66	107	67
22	.00	6.5	e1110	607	e2180	933	3.0	424	.00	48	80	51
23	.00	1.7	e770	443	e2150	685	2.7	560	.00	26	75	24
24	.00	336	519	340	e2210	479	2.7	498	.00	12	68	9.2
25	.00	1130	e389	254	2280	343	2.5	298	.00	5.1	56	3.6
26	.00	1470	e269	188	2310	243	2.4	164	.00	1.8	47	.89
27	.00	1590	e179	149	2350	161	3.5	73	.00	1.1	36	.00
28	.00	1600	e129	105	2330	124	1.4	214	.01	34	30	.00
29	.00	1480	e97	178	---	140	.06	432	.99	229	28	.00
30	.00	1120	e70	583	---	162	.00	436	2.8	315	35	.00
31	.00	---	e52	836	---	382	---	597	---	319	56	---
TOTAL	238.89	12888.90	14045	7317	35923	43802	4544.06	3971.82	3731.93	1743.61	4078.3	1215.17
MEAN	7.71	430	453	236	1283	1413	151	128	124	56.2	132	40.5
MAX	84	1600	1590	836	2350	2270	650	597	909	319	403	180
MIN	.00	.00	12	23	235	124	.00	.00	.00	.12	4.0	.00
AC-FT	474	25570	27860	14510	71250	86880	9010	7880	7400	3460	8090	2410
CFSM	.02	1.02	1.08	.56	3.05	3.36	.36	.30	.30	.13	.31	.10
IN.	.02	1.14	1.24	.65	3.17	3.87	.40	.35	.33	.15	.36	.11

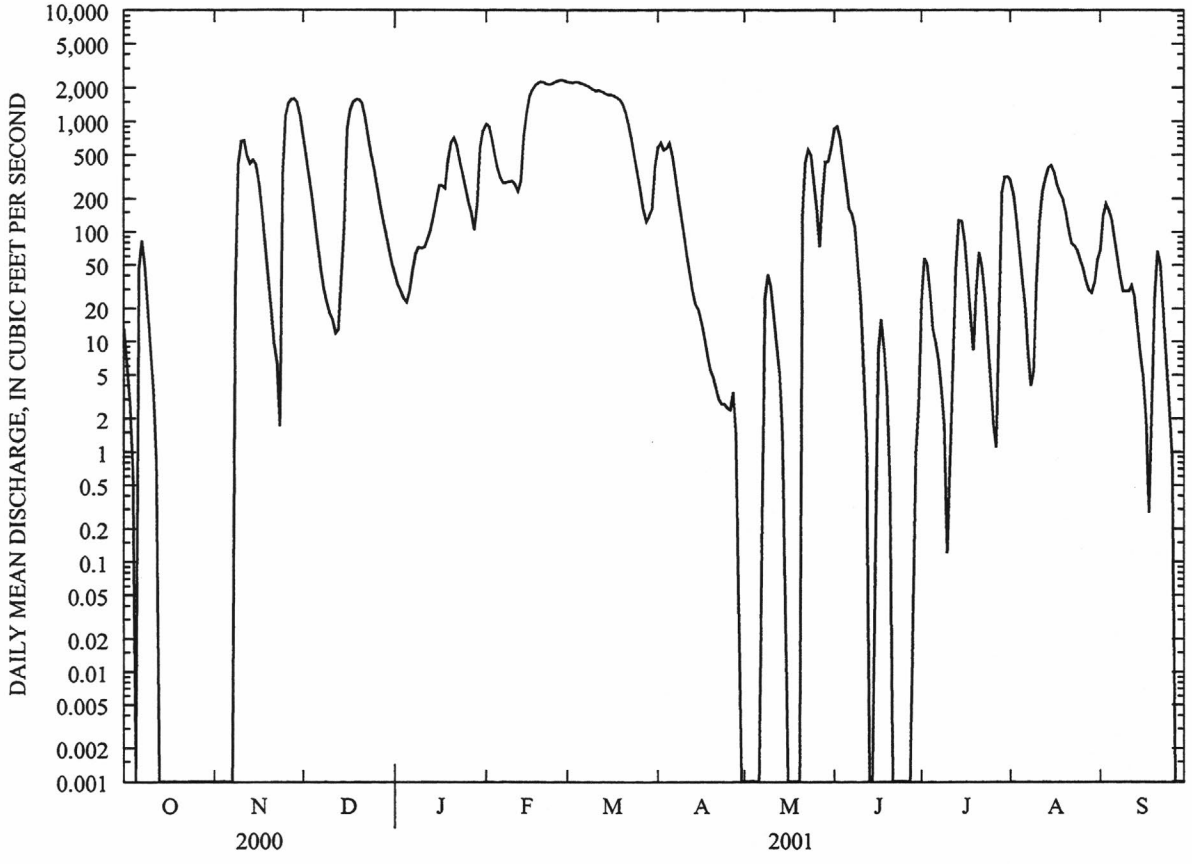
07077700 BAYOU DEVIEW NEAR MORTON--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	119	356	592	872	1008	997	772	541	306	153	194	203
MAX	1798	2811	2271	3917	3837	2658	1981	2389	2173	682	1020	1073
(WY)	1950	1958	1952	1950	1956	1945	1957	1958	1945	1967	1966	1965
MIN	.000	.000	.000	12.8	2.96	44.2	24.2	5.55	4.47	.000	.065	.000
(WY)	1957	1954	1963	1964	1963	1941	1963	1948	1941	1954	1947	1943

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	76708.62		133499.68			
ANNUAL MEAN	210		366		495	
HIGHEST ANNUAL MEAN					1312	1950
LOWEST ANNUAL MEAN					141	1941
HIGHEST DAILY MEAN	1600	Nov 28	2350	Feb 27	6640	Nov 23 1957
LOWEST DAILY MEAN	.00	Jul 8	.00	Oct 5	.00	Aug 7 1943
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 13	.00	Oct 13	.00	Aug 7 1943
MAXIMUM PEAK FLOW			2380	Feb 27-28	6700	Nov 23 1957
MAXIMUM PEAK STAGE			18.25	Feb 27-28	18.75	May 2 1973
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	152200		264800		358300	
ANNUAL RUNOFF (CFSM)	.50		.87		1.17	
ANNUAL RUNOFF (INCHES)	6.78		11.80		15.96	
10 PERCENT EXCEEDS	701		1530		1760	
50 PERCENT EXCEEDS	49		64		109	
90 PERCENT EXCEEDS	.55		.00		.00	

[e]Estimated



07077700 BAYOU DEVIEW AT MORTON--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
NOV 20..1200	81213	80513	43	783	7.3	59	7.5	262	6.9	79	20.0	7.10
JAN 31..0945	81213	80513	862	760	6.8	58	7.5	179	8.5	60	16.0	4.90
MAR 06..1205	81213	80513	2280	775	8.5	71	6.4	95	8.3	32	8.40	2.70
MAY 01..0945	81213	80513	.00	765	2.0	22	7.7	200	20.8	71	19.0	5.80
JUL 26..1015	81213	80513	.00	760	3.5	47	7.8	419	29.9	180	50.0	14.0
SEP 05..0955	81213	80513	117	763	3.7	46	8.0	494	26.3	210	53.0	18.0

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
NOV 20...	10.0	.6	13.0	24	67	16.0	28.0	.22	18.6	160	136
JAN 31...	6.60	.5	8.8	22	54	8.8	11.0	.15	261	112	90
MAR 06...	3.50	.3	4.0	19	35	3.4	5.5	.11	480	78	49
MAY 01...	5.70	.5	9.9	22	71	8.3	9.2	.17	--	126	101
JUL 26...	2.50	.5	14.0	14	76	11.0	30.0	.35	--	258	168
SEP 05...	6.40	.7	22.0	18	222	23.0	33.0	.41	95.4	302	289

DATE	NITROGEN AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)
NOV 20...	.080	.78	.10	.280	1.24	.290	.033	.010	.70	1.1
JAN 31...	.026	2.2	.03	.340	1.51	.350	.033	.010	2.2	2.6
MAR 06...	.046	1.4	.06	--	--	.140	--	<.010	1.4	1.5
MAY 01...	.012	1.5	.02	--	--	<.020	--	<.010	1.5	--
JUL 26...	.092	.98	.12	.210	.930	.240	.099	.030	.89	1.2
SEP 05...	.040	.80	.05	--	--	.110	--	<.010	.76	.91

DATE	PHOSPHATE ORTHO, DISSOLVED (MG/L) AS PO4) (00660)	PHOSPHORUS DISSOLVED AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (MG/L 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COL/ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COLS./ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
NOV 20...	.460	.180	.150	.280	120	90	210	95	82	9.5
JAN 31...	.307	.160	.100	.490	7200	210	3900	99	332	773
MAR 06...	.153	.040	.050	.250	130	96	460	98	176	1080
MAY 01...	.092	.040	.030	.250	E20	E26	140	99	104	0
JUL 26...	.092	.040	.030	.110	120	97	140	98	73	0
SEP 05...	.276	.070	.090	.130	E83	87	320	99	88	28

Remark codes used in this report:
< -- Less than
E -- Estimated value

07194800 ILLINOIS RIVER AT SAVOY

LOCATION.--Lat 36°06'11", long 94°20'40", in NW1/4SE1/4 sec.36, T.17 N., R.32 W., Washington County, Hydrologic Unit 11110103, on left bank at downstream side of State Highway 16 bridge, at Savoy.

DRAINAGE AREA.--167 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1979 to December 1981, October 1985 to September 1986, August 1995 to current year. Occasional low-flow discharge measurements 1957-63; occasional discharge measurements 1974-78, 1982-85, and 1990-95.

REVISED RECORDS.--WRD Ark. 2000: 1986 (M)(P), 1997-99 (M)

GAGE.--Water-stage recorder. Datum of gage is 1,017.90 ft above sea level.

REMARKS.--Water-discharge records good except estimated daily discharges, which are fair. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	34	87	117	276	405	59	27	140	64	11	9.0
2	10	32	75	102	209	347	57	26	96	37	11	8.6
3	9.8	34	65	89	174	299	56	25	69	26	10	8.3
4	10	54	58	87	152	258	54	24	54	22	9.6	7.8
5	10	77	53	111	132	217	52	23	42	20	9.3	7.8
6	14	500	50	188	120	191	51	23	34	19	9.1	7.7
7	13	338	47	242	110	173	49	24	30	18	9.0	7.1
8	11	233	44	233	103	157	47	23	26	16	9.1	15
9	11	361	41	192	216	144	45	23	25	15	9.8	90
10	12	241	41	162	225	131	43	22	24	14	12	35
11	12	166	40	327	167	125	48	27	23	14	22	18
12	12	129	38	421	144	133	91	36	20	13	15	14
13	12	127	49	309	166	124	70	25	19	36	11	12
14	11	111	53	268	1270	114	58	23	64	13	10	11
15	13	92	52	206	2510	122	79	21	1080	13	9.9	10
16	20	78	205	168	1800	147	99	20	267	62	12	10
17	18	66	223	149	953	129	75	21	137	62	11	97
18	17	56	153	142	592	113	62	1070	90	24	10	67
19	15	50	114	129	433	104	56	208	63	18	9.6	53
20	14	44	97	109	336	97	53	134	48	15	9.1	25
21	15	38	86	98	276	91	49	198	111	14	8.9	19
22	18	34	71	90	242	86	45	145	136	13	8.3	17
23	20	38	66	85	637	82	43	93	80	12	7.8	16
24	19	77	61	81	4890	77	41	66	56	12	8.0	14
25	18	640	e65	75	1860	72	37	50	43	11	8.5	13
26	21	307	e150	71	1030	68	34	41	35	11	22	13
27	33	198	e310	66	646	66	32	35	36	15	13	12
28	30	160	e280	67	488	64	31	32	27	29	10	11
29	41	122	e230	1310	---	64	29	31	25	17	9.2	11
30	31	101	174	758	---	63	28	132	25	14	8.9	11
31	32	---	140	407	---	61	---	240	---	13	9.0	---
TOTAL	532.8	4538	3218	6859	20157	4324	1573	2888	2925	682	333.1	650.3
MEAN	17.2	151	104	221	720	139	52.4	93.2	97.5	22.0	10.7	21.7
MAX	41	640	310	1310	4890	405	99	1070	1080	64	22	97
MIN	9.8	32	38	66	103	61	28	20	19	11	7.8	7.1
AC-FT	1060	9000	6380	13600	39980	8580	3120	5730	5800	1350	661	1290
CFSM	.10	.91	.62	1.32	4.31	.84	.31	.56	.58	.13	.06	.13
IN.	.12	1.01	.72	1.53	4.49	.96	.35	.64	.65	.15	.07	.14

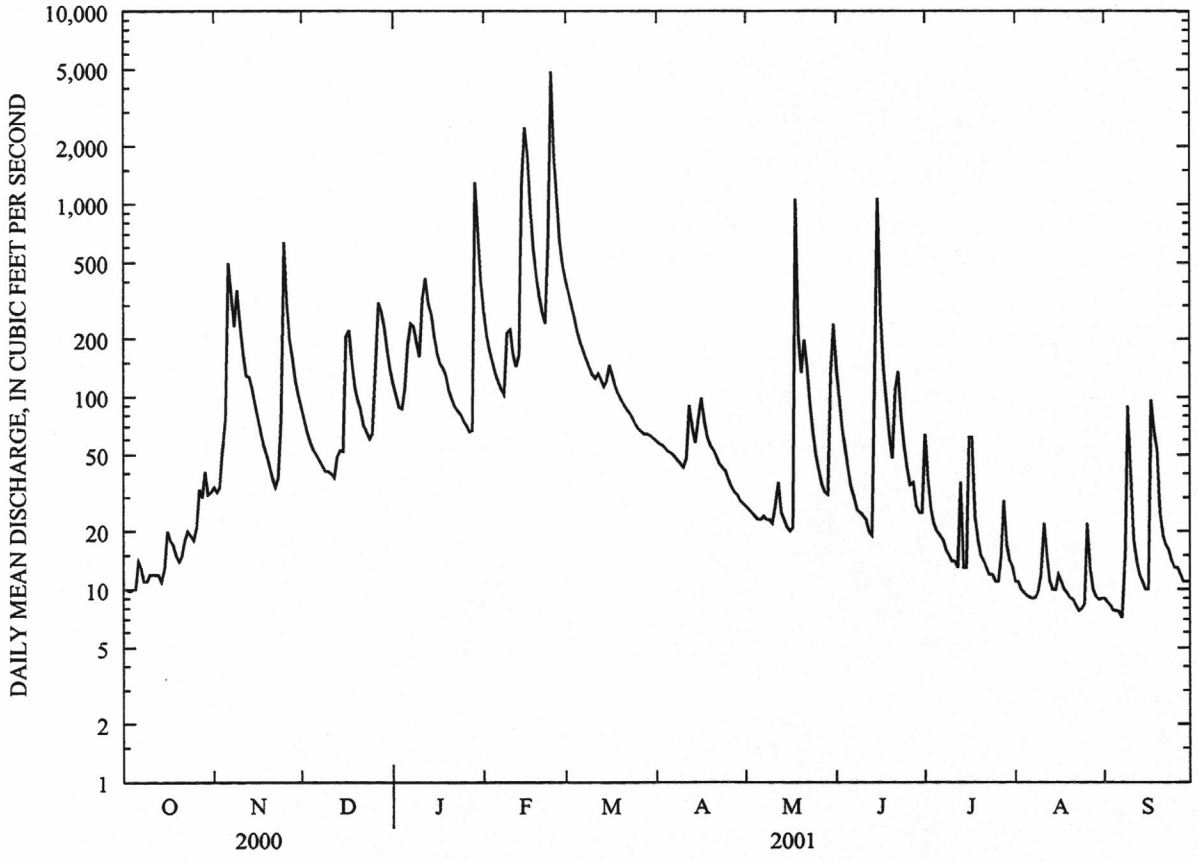
07194800 ILLINOIS RIVER AT SAVOY--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979-81, 1986, 1996-01, BY WATER YEAR (WY)

MEAN	51.0	226	118	176	224	215	210	189	236	52.4	24.0	70.8
MAX	180	981	349	882	731	608	533	519	1166	158	62.3	392
(WY)	1999	1997	1986	1998	2001	1998	1986	1999	2000	2000	1981	1986
MIN	10.1	12.4	12.0	6.68	18.3	44.6	52.4	32.7	24.3	5.43	2.23	3.73
(WY)	2000	2000	1980	1981	1980	1996	2001	1997	1998	1980	1980	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979-81, 1986, 1996-01	
ANNUAL TOTAL	67664.5		48680.2			
ANNUAL MEAN	185		133		151	
HIGHEST ANNUAL MEAN					245	1986
LOWEST ANNUAL MEAN					33.7	1980
HIGHEST DAILY MEAN	9240	Jun 21	4890	Feb 24	10500	Nov 19 1985
LOWEST DAILY MEAN	5.0	Sep 22	7.1	Sep 7	1.8	Aug 10 1980
ANNUAL SEVEN-DAY MINIMUM	6.0	Sep 16	8.0	Sep 1	1.9	Aug 22 1980
MAXIMUM PEAK FLOW			7400	Feb 24	31500	Nov 19 1985
MAXIMUM PEAK STAGE			14.35	Feb 24	[a]18.42	Nov 19 1985
INSTANTANEOUS LOW FLOW			6.7	Sep 7	1.6	Aug 11 1980
ANNUAL RUNOFF (AC-FT)	134200		96560		109500	
ANNUAL RUNOFF (CFSM)	1.11		.80		.90	
ANNUAL RUNOFF (INCHES)	15.07		10.84		12.29	
10 PERCENT EXCEEDS	317		248		297	
50 PERCENT EXCEEDS	55		50		36	
90 PERCENT EXCEEDS	11		11		9.2	

[a]From floodmarks
[e]Estimated



07194800 ILLINOIS RIVER AT SAVOY--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
04...	0900	80513	80513	10	732	4.9	56	7.4	308	19.8
JAN										
09...	1330	81213	80513	184	742	13.4	105	8.3	227	3.9
MAR										
13...	1330	81213	80513	125	731	13.6	130	8.3	257	11.6
MAY										
15...	1530	81213	80513	20	7	8.4	.0	7.7	299	24.4
JUL										
25...	1030	81213	80513	12	732	5.8	76	7.9	315	27.6
AUG										
29...	1000	81213	80513	9.0	735	5.5	69	7.7	300	24.5

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
04...	130	50.0	2.20	3.00	.3	6.9	10	10.0	7.7	179
JAN										
09...	88	31.0	2.50	2.50	.2	4.5	10	7.3	14.0	139
MAR										
13...	110	41.0	2.40	2.30	.2	4.9	8	7.3	12.0	156
MAY										
15...	140	51.0	2.50	2.70	.2	6.3	9	8.8	9.8	178
JUL										
25...	140	50.0	2.50	4.30	.2	6.5	9	8.8	8.4	182
AUG										
29...	130	47.0	2.30	4.10	.2	6.0	9	8.7	5.8	166

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	GEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT										
04...	<.010	<.20	--	--	--	2.20	--	<.010	--	--
JAN										
09...	.034	.47	.04	2.98	13.2	3.00	.066	.020	.44	3.5
MAR										
13...	.046	.42	.06	--	--	3.70	--	<.010	.37	4.1
MAY										
15...	.038	.35	.05	1.78	7.88	1.80	.066	.020	.31	2.1
JUL										
25...	.050	.40	.06	--	--	1.10	--	<.010	.35	1.5
AUG										
29...	.030	.40	.04	--	--	1.00	--	<.010	.37	1.4

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE SUSPENDED (T/DAY) (80155)
OCT										
04...	.061	<.020	.020	.030	96	150	130	43	114	3.2
JAN										
09...	.153	.050	.050	.080	64	94	1600	99	30	15
MAR										
13...	.061	.030	.020	.040	160	190	130	91	47	16
MAY										
15...	.123	.040	.040	.070	66	E91	110	55	129	7.1
JUL										
25...	.123	.040	.040	.060	470	380	200	62	84	2.6
AUG										
29...	.061	<.020	.020	.040	84	120	200	98	38	.93

Remark codes used in this report:
< -- Less than
E -- Estimated value

07194809 MUD CREEK TRIBUTARY AT TOWNSHIP STREET AT FAYETTEVILLE

LOCATION.--Lat 36°05'05", long 94°08'05", in NW1/4NW1/4 sec.2, T.16 N., R.30 W., Washington County, Hydrologic Unit 11110003, downstream of the culvert at Township Street.

DRAINAGE AREA.--1.22 mi^2.

PERIOD OF RECORD.--September 1996 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records fair except estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	1.0	.69	.48	1.0	.96	.08	e.00	.86	.58	.18	.00
2	.18	.76	.63	.45	.82	.89	.16	e.00	1.1	.56	.13	.00
3	.23	.53	.52	.43	.78	.78	.17	e.00	.75	.60	.04	.00
4	.23	3.0	.52	.50	.78	.70	.19	e.10	.71	.50	.04	.00
5	.75	3.9	.49	.69	.72	.57	.22	e.33	.62	.81	.02	.00
6	.32	5.7	.52	.98	.66	.50	.23	e2.6	.55	.52	.00	.00
7	.08	1.6	.49	1.1	.62	.52	.32	e.10	.54	.48	.00	.00
8	.04	2.7	.47	.96	.70	.45	.32	.17	.50	.41	.18	3.1
9	.04	2.0	.54	.78	2.3	.36	.34	.14	.49	.36	.04	1.8
10	.07	1.2	.50	.76	.74	.36	.90	.13	.46	.35	.10	.05
11	.08	1.1	.53	3.4	.64	.50	.25	2.2	.51	.27	1.3	.01
12	.10	1.2	.34	1.8	.64	.49	.26	.42	.48	.30	.19	.00
13	.12	.98	.44	1.5	1.9	.42	.25	.30	.42	3.3	.05	.00
14	.12	.75	.37	1.3	14	.45	1.1	.27	7.2	.50	.01	.00
15	.46	.70	1.0	1.1	13	.78	.29	.28	2.0	.41	.49	.00
16	.91	.80	2.4	.87	6.2	.44	.15	.29	.75	1.8	.33	.00
17	.48	.51	.88	.86	2.2	.41	.20	3.3	.65	.58	.06	10
18	.42	.45	.76	.76	1.3	.36	.19	4.3	.72	.45	.06	2.0
19	.41	.45	.70	.62	1.1	.31	.24	.88	.67	.41	.00	.37
20	.38	.48	.66	.55	1.0	.30	.21	2.0	.64	.33	.00	.16
21	.43	.56	.55	.55	.90	.29	.24	1.6	2.4	.30	.00	.08
22	.46	.62	.50	.54	.73	.27	.20	.86	.84	.19	.00	.06
23	.43	1.0	.48	.58	7.1	.24	.15	.77	.67	.16	.00	.08
24	.34	5.1	.46	.62	26	.19	.18	.61	.60	.08	.00	.00
25	.34	2.8	.45	.51	4.0	.13	e.00	.54	.58	.67	.00	.00
26	1.6	1.4	1.3	.65	1.9	.13	e.00	.53	1.5	.21	.00	e.18
27	.96	1.0	.96	.66	1.3	.16	e.00	.56	.81	.97	.00	e.00
28	.62	.88	.92	.88	.96	.14	e.00	.61	.77	.59	.00	e.00
29	.61	.75	.68	12	---	.07	e.00	1.0	.67	.27	.15	e.00
30	1.3	.67	.52	2.7	---	.12	e.00	3.2	.65	.10	.03	e.00
31	.68	---	.47	1.5	---	.11	---	1.1	---	.03	.00	---
TOTAL	13.31	44.59	20.74	41.08	93.99	12.40	6.84	29.19	30.11	17.09	3.40	17.89
MEAN	.43	1.49	.67	1.33	3.36	.40	.23	.94	1.00	.55	.11	.60
MAX	1.6	5.7	2.4	12	26	.96	1.1	4.3	7.2	3.3	1.3	10
MIN	.04	.45	.34	.43	.62	.07	.00	.00	.42	.03	.00	.00
AC-FT	26	88	41	81	186	25	14	58	60	34	6.7	35

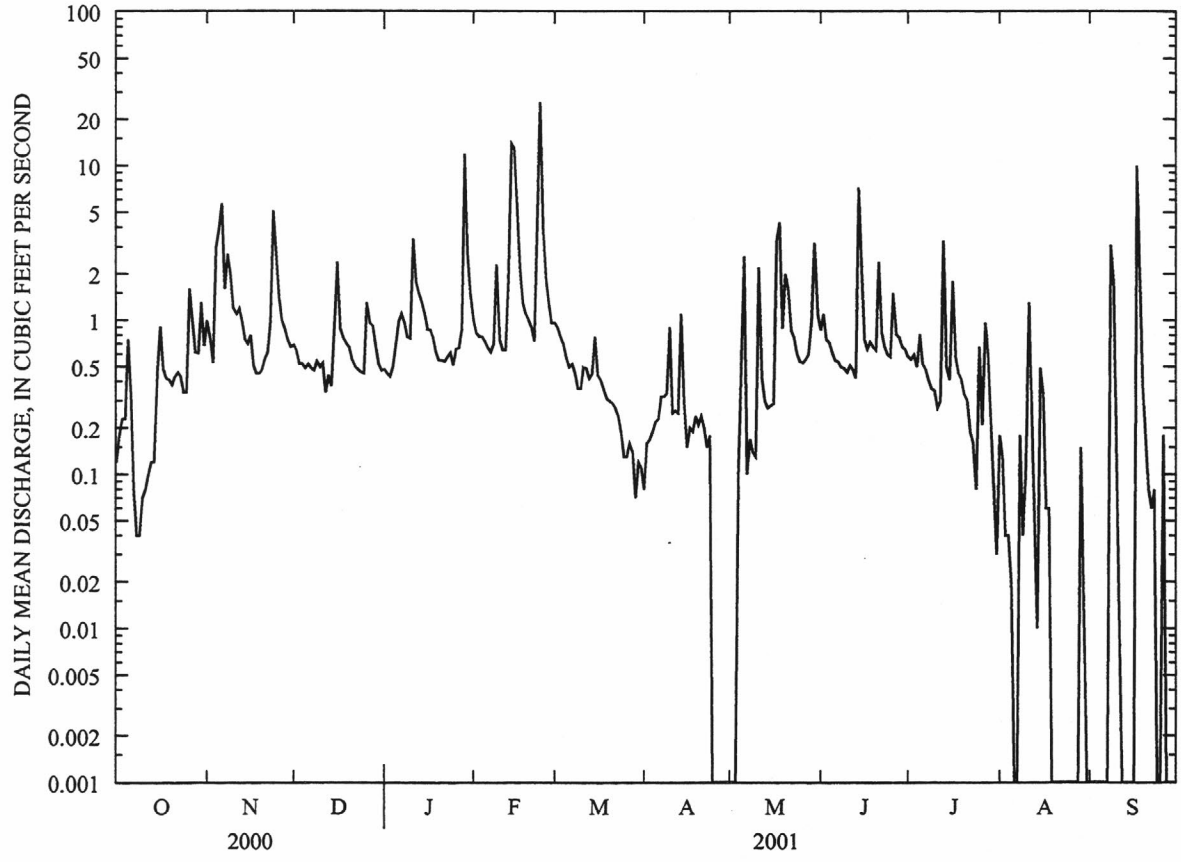
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	.95	1.58	.67	1.88	2.17	2.76	1.14	1.13	2.05	.33	.19	.61
MAX	3.07	4.92	1.02	6.53	3.68	7.02	3.03	1.76	5.50	.59	.61	1.08
(WY)	1999	1997	1999	1998	1997	1998	1997	1999	2000	2000	1997	1998
MIN	.11	.085	.11	.25	.44	.40	.19	.78	.23	.073	.000	.12
(WY)	2000	2000	1997	2000	2000	2001	2000	1997	1998	1998	2000	1999

07194809 MUD CREEK TRIBUTARY AT TOWNSHIP STREET AT FAYETTEVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	349.80		330.63			
ANNUAL MEAN	.96		.91		1.28	
HIGHEST ANNUAL MEAN					1.83	1998
LOWEST ANNUAL MEAN					.81	2000
HIGHEST DAILY MEAN	35	Jun 17	26	Feb 24	80	Jan 4 1998
LOWEST DAILY MEAN	.00	Jan 14	.00	Apr 25	.00	Sep 19 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 20	.00	Apr 25	.00	Sep 28 1996
MAXIMUM PEAK FLOW			202	Feb 24	[a]553	Jun 30 1999
MAXIMUM PEAK STAGE			2.96	Feb 24	4.54	Jun 30 1999
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	694		656		928	
10 PERCENT EXCEEDS	1.9		1.8		3.3	
50 PERCENT EXCEEDS	.25		.50		.29	
90 PERCENT EXCEEDS	.00		.00		.00	

[a]From rating curve extended above 100 ft^3/s on basis of slope-area measurement of peak flow
[e]Estimated



07194880 OSAGE CREEK NEAR CAVE SPRINGS

LOCATION.--Lat 36°16'53", long 94°13'40", in NE1/4NE1/4 sec.36, T.19 N., R.31 W., Benton County, Hydrologic Unit 11110103, at bridge on State Highway 112, 1.4 mi north of Cave Springs.

DRAINAGE AREA.--34.7 mi^2.

PERIOD OF RECORD.--October 1990 to September 1993, April 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1131.59 ft above sea level.

REMARKS.--Records good except estimated daily discharges, which are poor. Some regulation by City of Rogers sewage treatment facility, 1.5 mi upstream. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	25	22	42	72	31	20	39	23	23	15
2	18	20	24	21	38	66	29	19	44	22	22	14
3	19	20	23	20	33	62	29	19	37	21	21	14
4	18	20	22	20	29	59	29	20	31	21	21	14
5	17	21	21	21	29	55	29	20	29	21	20	14
6	18	95	21	22	30	53	27	21	28	21	18	14
7	18	43	22	25	29	51	26	28	27	20	18	16
8	17	44	21	27	30	48	27	24	25	19	19	37
9	16	51	21	29	46	49	25	23	24	21	19	99
10	15	35	20	30	36	47	25	22	23	19	16	30
11	e16	31	20	32	32	46	32	51	22	21	18	26
12	e16	29	19	39	31	46	29	e32	21	20	23	21
13	17	27	20	36	67	45	26	e27	20	43	19	18
14	16	26	18	36	135	44	26	e30	34	24	18	18
15	17	25	21	35	223	46	43	e35	97	21	18	16
16	21	24	31	32	118	48	30	e33	35	113	19	15
17	19	22	29	30	80	44	27	e69	29	37	17	30
18	e19	21	29	29	66	42	27	e77	26	28	15	37
19	e18	21	27	29	57	41	26	e58	24	25	15	31
20	e18	21	25	28	52	39	26	e158	24	23	15	21
21	18	21	24	27	50	38	25	e163	114	22	14	20
22	20	20	23	26	47	37	23	e60	42	21	14	20
23	20	20	22	e25	99	36	24	40	31	19	13	17
24	18	49	21	e24	1100	35	24	35	29	20	16	16
25	18	80	20	e24	227	34	24	31	26	20	17	16
26	22	38	19	e23	127	34	23	30	26	20	17	17
27	23	33	20	23	98	34	22	29	26	20	16	16
28	21	30	20	26	80	33	22	26	26	74	13	14
29	21	29	22	162	---	32	22	25	25	88	15	13
30	20	28	22	62	---	31	20	120	23	32	17	13
31	20	---	22	46	---	31	---	54	---	26	18	---
TOTAL	572	964	694	1031	3031	1378	798	1399	1007	925	544	662
MEAN	18.5	32.1	22.4	33.3	108	44.5	26.6	45.1	33.6	29.8	17.5	22.1
MAX	23	95	31	162	1100	72	43	163	114	113	23	99
MIN	15	20	18	20	29	31	20	19	20	19	13	13
AC-FT	1130	1910	1380	2040	6010	2730	1580	2770	2000	1830	1080	1310
CFSM	.53	.93	.65	.96	3.12	1.28	.77	1.30	.97	.86	.51	.64
IN.	.61	1.03	.74	1.11	3.25	1.48	.86	1.50	1.08	.99	.58	.71

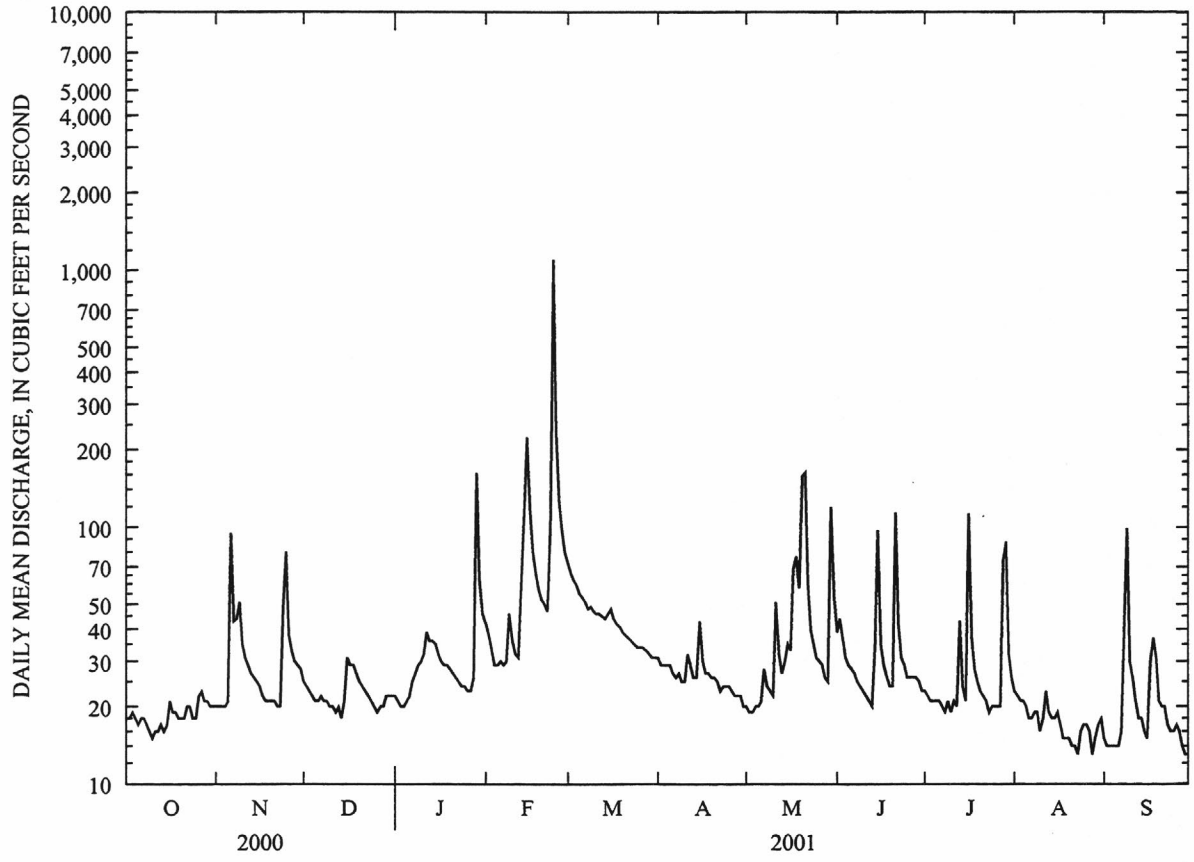
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991-93, 2000-01, BY WATER YEAR (WY)

MEAN	28.1	54.8	77.3	70.0	66.4	43.8	63.9	51.8	87.2	37.9	20.2	36.5
MAX	43.5	77.7	160	135	108	75.8	93.1	107	217	73.2	26.2	98.4
(WY)	1991	1993	1993	1991	2001	1993	1991	1993	2000	2000	1992	1993
MIN	17.8	32.1	22.4	33.3	37.9	22.8	26.6	28.2	21.0	15.8	13.9	17.2
(WY)	1993	2001	2001	2001	1992	1992	2001	1992	1991	1991	1991	1991

07194880 OSAGE CREEK NEAR CAVE SPRINGS--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1991-93, 2000-01	
ANNUAL TOTAL	13005			
ANNUAL MEAN	35.6		50.4	
HIGHEST ANNUAL MEAN			77.0	1993
HIGHEST DAILY MEAN	1100	Feb 24	1630	Dec 15 1992
LOWEST DAILY MEAN	13	Aug 23	11	Sep 15 1991
ANNUAL SEVEN-DAY MINIMUM	14	Sep 1	12	Oct 6 1991
MAXIMUM PEAK FLOW	2700	Feb 24	2980	Jun 21 2000
MAXIMUM PEAK STAGE	9.48	Feb 24	9.85	Jun 21 2000
INSTANTANEOUS LOW FLOW	9.4	Aug 23	8.3	[a]Oct 10 1991
ANNUAL RUNOFF (AC-FT)	25800		36550	
ANNUAL RUNOFF (CFSM)	1.03		1.45	
ANNUAL RUNOFF (INCHES)	13.94		19.75	
10 PERCENT EXCEEDS	53		87	
50 PERCENT EXCEEDS	25		31	
90 PERCENT EXCEEDS	17		16	

[a]Also Oct. 11-12, 18, 20, 21, 22, 1991
[e]Estimated



07195000 OSAGE CREEK NEAR ELM SPRINGS

LOCATION.--Lat 36°13'19", long 94°17'18", in SW1/4NE1/4 sec.21, T.18 N., R.31 W., Benton County, Hydrologic Unit 11110103, on left bank 0.7 mi downstream from Little Osage Creek, and 3.2 mi northwest of Elm Springs.

DRAINAGE AREA.--130 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to September 1975, July 1995 to current year. October 1976 to September 1979 a crest-stage partial-record station. Occasional discharge measurements 1977-79 and 1982-95. Monthly discharge only for some periods, published in WSP 1731.

REVISED RECORDS.--WRD Ark.1970: Drainage area. WRD Ark. 1974: 1969.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1979 water stage recorder about 400 ft downstream at present datum. Altitude of gage is 1,052 ft by barometer.

REMARKS.--Water-discharge records good except estimated discharges, which are fair. Low flow slightly regulated by operation of small lake at Cave Springs, and northwest Arkansas sewage treatment plant. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	86	100	78	184	339	141	93	167	e90	e106	80
2	71	85	89	81	171	305	149	90	168	e90	e102	98
3	77	79	81	85	161	280	156	88	142	e88	e100	94
4	74	71	86	87	147	257	157	86	139	e88	e98	102
5	70	68	86	94	142	243	153	79	137	e84	e97	106
6	85	273	85	104	142	234	146	76	129	e84	e96	107
7	68	158	84	113	142	219	132	114	123	e82	e94	112
8	58	148	83	119	138	204	126	91	122	e80	e92	166
9	66	168	76	113	182	199	125	90	118	e76	e92	297
10	69	130	69	111	156	190	127	86	101	e72	e90	126
11	67	109	76	134	138	187	152	143	106	e70	e98	111
12	68	99	78	150	138	196	139	115	116	e70	e98	101
13	68	106	84	134	199	189	127	90	114	e150	e98	e95
14	57	100	73	129	341	186	115	86	133	e110	e96	e93
15	59	95	81	129	793	197	179	96	409	e100	e100	e92
16	99	93	123	128	499	195	128	96	168	e260	e95	e90
17	81	87	110	121	356	176	120	100	132	e150	e92	e110
18	77	75	105	117	293	167	116	177	126	e94	e90	e150
19	74	68	100	114	265	167	115	122	115	e94	e86	e120
20	70	73	95	106	242	168	114	137	106	e92	e84	107
21	61	79	93	98	230	167	107	337	281	e92	e80	100
22	64	76	90	99	218	166	98	164	173	e90	e75	92
23	73	79	80	103	336	172	103	134	125	e90	e70	83
24	74	116	72	99	3500	158	100	117	109	e85	59	84
25	72	231	70	95	1050	149	102	107	e100	e80	61	82
26	83	138	77	96	623	153	101	100	e96	e85	59	e85
27	115	128	88	93	480	154	100	92	e94	e85	59	e90
28	88	120	92	93	384	155	95	95	e92	e84	57	83
29	72	112	100	427	---	155	88	107	e92	e250	60	77
30	79	106	95	271	---	156	90	329	e90	e150	83	70
31	82	---	85	205	---	148	---	214	---	e110	72	---
TOTAL	2286	3356	2706	3926	11650	6031	3701	3851	4123	3225	2639	3203
MEAN	73.7	112	87.3	127	416	195	123	124	137	104	85.1	107
MAX	115	273	123	427	3500	339	179	337	409	260	106	297
MIN	57	68	69	78	138	148	88	76	90	70	57	70
AC-FT	4530	6660	5370	7790	23110	11960	7340	7640	8180	6400	5230	6350
CFSM	.57	.86	.67	.97	3.20	1.50	.95	.96	1.06	.80	.65	.82
IN.	.65	.96	.77	1.12	3.33	1.73	1.06	1.10	1.18	.92	.76	.92

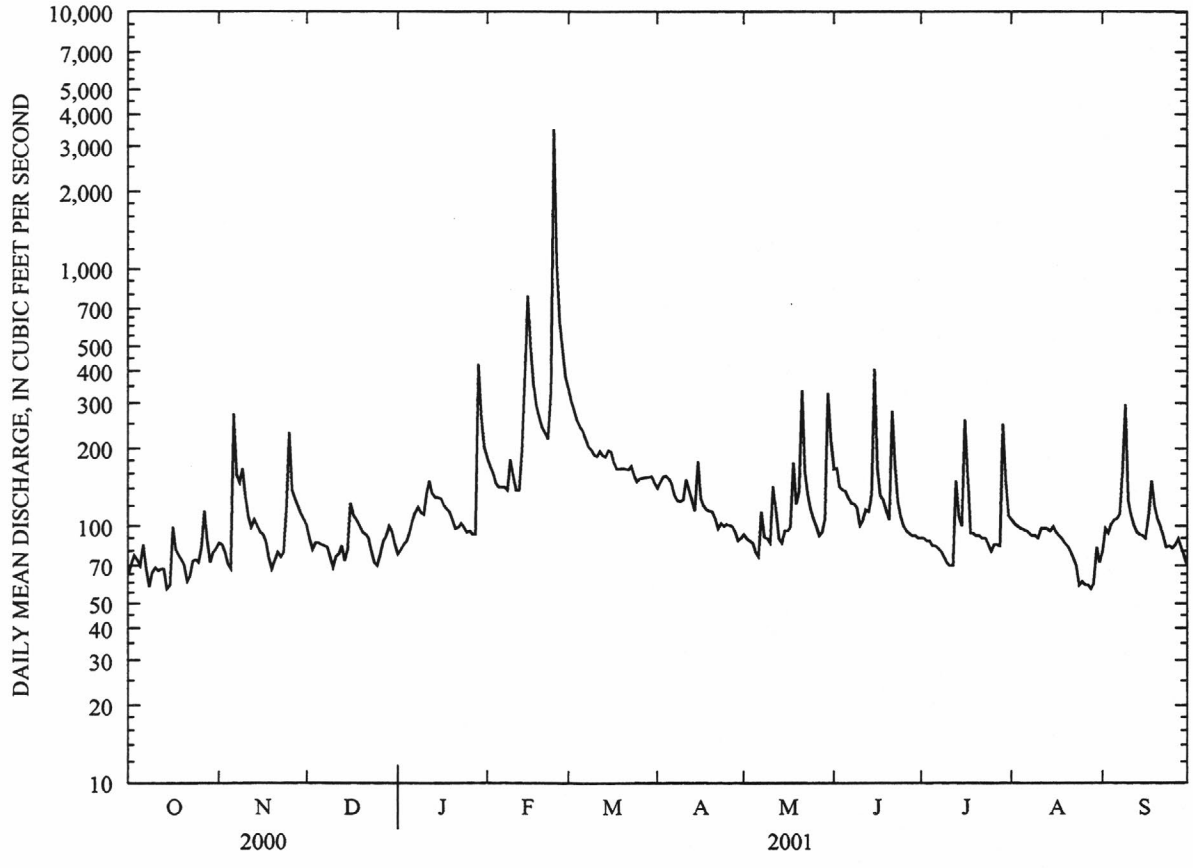
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-75, 1995-01, BY WATER YEAR (WY)

MEAN	74.0	120	99.3	104	140	164	162	193	168	108	69.6	67.5
MAX	310	474	390	417	457	538	533	972	694	318	244	214
(WY)	1971	1974	1974	1998	1951	1975	1957	1961	1974	1999	1961	1975
MIN	13.2	23.3	20.9	20.4	23.8	24.5	20.8	40.2	25.0	14.2	11.3	12.4
(WY)	1957	1956	1956	1956	1964	1956	1956	1964	1954	1954	1954	1956

07195000 OSAGE CREEK NEAR ELM SPRINGS--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951-75, 1995-01	
ANNUAL TOTAL	49259		50697			
ANNUAL MEAN	135		139		122	
HIGHEST ANNUAL MEAN					236	1974
LOWEST ANNUAL MEAN					29.1	1956
HIGHEST DAILY MEAN	4010	Jun 21	3500	Feb 24	6540	May 19 1961
LOWEST DAILY MEAN	45	Apr 9	57	Oct 14	5.3	Sep 5 1954
ANNUAL SEVEN-DAY MINIMUM	53	Apr 4	61	Aug 23	6.1	Aug 31 1954
MAXIMUM PEAK FLOW			7340	Feb 24	[a]22500	May 19 1961
MAXIMUM PEAK STAGE			12.02	Feb 24	16.66	May 19 1961
INSTANTANEOUS LOW FLOW			49	Aug 28,29	4.7	Sep 4 1954
ANNUAL RUNOFF (AC-FT)	97710		100600		88510	
ANNUAL RUNOFF (CFSM)	1.04		1.07		.94	
ANNUAL RUNOFF (INCHES)	14.10		14.51		12.77	
10 PERCENT EXCEEDS	190		201		218	
50 PERCENT EXCEEDS	83		100		75	
90 PERCENT EXCEEDS	61		73		26	

[a]From rating curve extended above 11,000 ft^3/s on basis of slope-area measurement of peak flow
[e]Estimated



07195000 OSAGE CREEK NEAR ELM SPRINGS--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
03...	1545	80513	80513	78	730	13.4	159	7.6	409	21.6
JAN										
09...	1130	81213	80513	107	742	12.2	99	8.1	452	5.3
MAR										
07...	1400	81213	80513	225	740	11.2	109	8.2	329	12.7
MAY										
15...	1330	81213	80513	85	732	8.7	103	7.9	422	21.5
JUL										
18...	1130	81213	80513	94	735	6.9	86	7.6	402	24.0
AUG										
29...	1230	81213	80513	61	735	7.5	93	7.8	468	24.1

DATE	HARDNESS TOTAL MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
03...	130	49.0	1.90	7.00	1	37.0	37	33.0	25.0	268
JAN										
09...	140	52.0	1.90	5.50	1	31.0	32	28.0	26.0	257
MAR										
07...	130	47.0	1.90	4.20	.6	15.0	20	15.0	11.0	205
MAY										
15...	130	51.0	1.80	6.20	1	35.0	35	32.0	23.0	259
JUL										
18...	130	50.0	1.80	6.90	1	32.0	33	26.0	25.0	252
AUG										
29...	130	49.0	1.70	8.50	2	43.0	40	40.0	27.0	281

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT									
03...	<.010	.30	--	--	--	--	<.010	--	3.9
JAN									
09...	.033	.47	.04	4.28	18.9	.066	.020	.44	4.8
MAR									
07...	<.010	.36	--	5.98	26.5	.066	.020	--	6.4
MAY									
15...	.018	.40	.02	--	--	--	<.010	.38	4.1
JUL									
18...	.012	.37	.02	--	--	--	<.010	.36	3.2
AUG									
29...	.020	.30	.03	--	--	--	<.010	.28	3.1

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT										
03...	4.29	1.40	1.40	1.40	88	130	66	86	86	18
JAN										
09...	1.35	.490	.440	.520	22	23	51	98	68	20
MAR										
07...	2.42	.780	.790	.810	74	54	E26	96	58	35
MAY										
15...	3.99	1.40	1.30	1.40	E20	E17	64	76	71	16
JUL										
18...	3.99	1.30	1.30	1.30	310	430	500	97	62	16
AUG										
29...	4.60	1.50	1.50	1.50	88	170	130	98	73	12

Remark codes used in this report:
< -- Less than
E -- Estimated value

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS

LOCATION.--Lat 36°06'31", long 94°32'00", in SE1/4NE1/4 sec.31, T.17 N., R.33 W., Benton County, Hydrologic Unit 11110103, at bridge on State Highway 59, 5.0 mi south of Siloam Springs, and 0.6 mi downstream from mouth of Cincinnati Creek.

DRAINAGE AREA.--575 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to current year. Occasional low-flow measurements in 1971.

REVISED RECORDS.--WRD Ark 1997: 1996.

GAGE.--Water-stage recorder.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 3, 1990, reached a stage of 25.4 ft, from floodmarks, discharge 66,000 ft^3/s from rating curve extended above 23,000 ft^3/s on basis of contracted opening of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

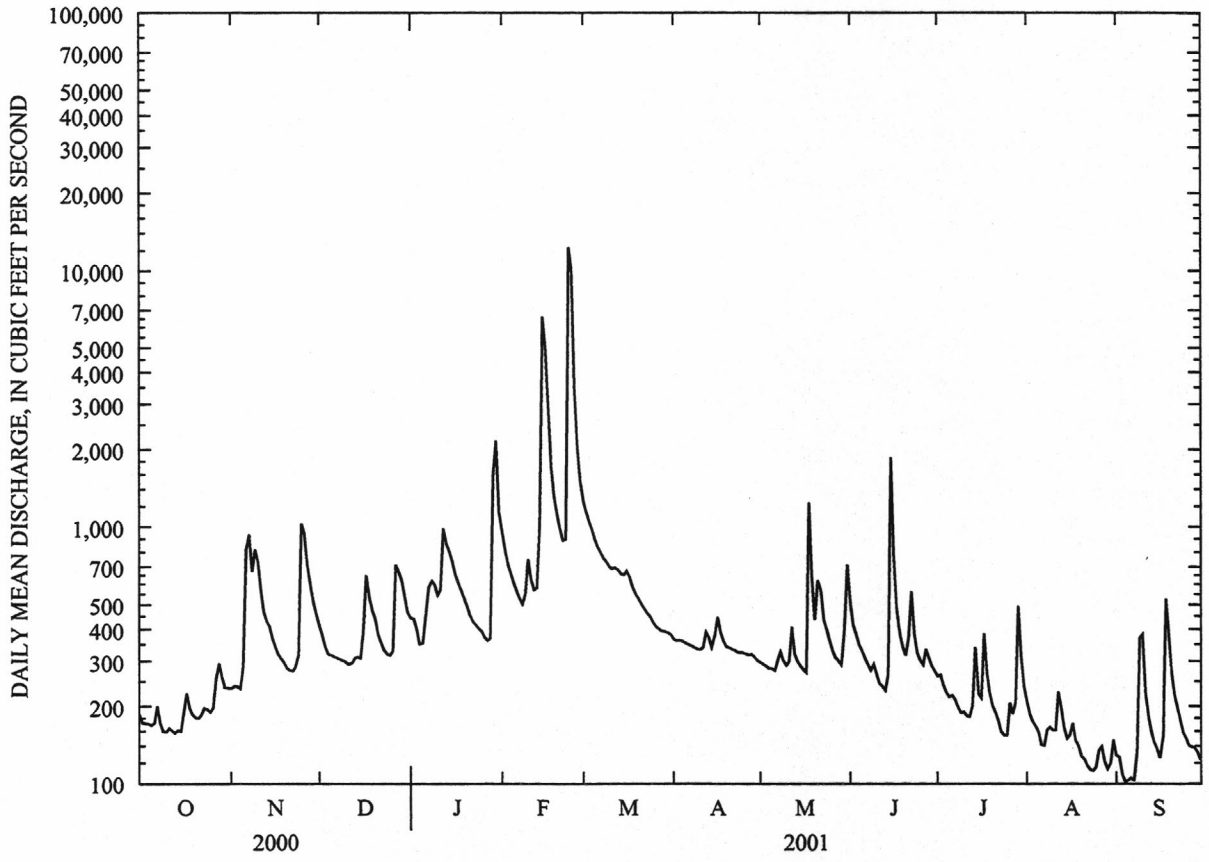
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	235	415	444	960	1260	368	298	512	263	210	129
2	173	241	379	441	820	1140	362	293	415	267	186	127
3	172	240	344	402	718	1050	363	287	382	243	174	109
4	171	235	322	351	662	983	361	282	349	227	167	101
5	169	288	318	354	609	901	355	281	331	218	158	103
6	173	819	313	446	565	843	350	276	312	221	142	105
7	201	936	310	587	530	798	346	303	293	212	141	103
8	172	673	306	619	503	757	341	327	277	198	162	132
9	160	819	303	597	550	732	336	303	294	189	166	370
10	159	735	299	546	750	704	334	290	268	190	161	383
11	165	572	293	573	626	689	341	301	247	184	161	227
12	161	469	295	985	572	697	391	409	240	182	228	185
13	157	430	309	864	582	684	372	322	231	202	197	160
14	161	411	312	799	1030	659	341	300	269	341	164	144
15	160	369	309	729	6630	652	380	287	1860	224	150	136
16	189	343	393	654	5020	677	446	279	784	215	155	126
17	225	320	650	606	2910	642	389	272	486	385	172	154
18	197	307	532	568	1720	587	360	1240	386	270	147	528
19	186	297	475	530	1320	549	343	646	343	224	140	371
20	181	283	436	493	1110	527	340	436	317	201	128	269
21	180	277	381	453	980	502	336	620	373	189	124	221
22	186	275	356	427	889	481	332	567	564	176	117	196
23	197	288	332	417	900	463	325	435	386	159	113	176
24	195	318	321	404	12400	448	324	400	326	154	112	158
25	190	1030	317	395	10200	425	324	363	304	154	116	150
26	198	944	332	374	3500	409	321	332	291	206	135	141
27	258	718	711	362	2100	402	318	311	336	187	140	139
28	295	606	669	370	1530	395	320	301	312	207	122	138
29	260	520	619	1580	---	394	311	290	288	494	114	132
30	237	457	536	2170	---	389	302	389	276	316	121	124
31	236	---	466	1150	---	382	---	715	---	241	148	---
TOTAL	5950	14455	12353	19690	60686	20221	10432	12155	12052	7139	4671	5537
MEAN	192	482	398	635	2167	652	348	392	402	230	151	185
MAX	295	1030	711	2170	12400	1260	446	1240	1860	494	228	528
MIN	157	235	293	351	503	382	302	272	231	154	112	101
AC-FT	11800	28670	24500	39060	120400	40110	20690	24110	23910	14160	9260	10980
CFSM	.33	.84	.69	1.10	3.77	1.13	.60	.68	.70	.40	.26	.32
IN.	.38	.94	.80	1.27	3.93	1.31	.67	.79	.78	.46	.30	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	252	712	498	737	947	899	656	718	971	417	191	293
MAX	482	2839	824	2256	2167	1767	1040	1780	3287	1153	248	887
(WY)	1999	1997	1997	1998	2001	1998	1999	1999	2000	1999	1997	1996
MIN	168	166	251	266	242	224	282	311	226	153	125	182
(WY)	2000	1996	1996	2000	1996	1996	2000	1997	1996	1996	1996	1995

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	185341			
ANNUAL MEAN	508		606	
HIGHEST ANNUAL MEAN			795	1999
LOWEST ANNUAL MEAN			391	1996
HIGHEST DAILY MEAN	12400	Feb 24	19000	Jan 5 1998
LOWEST DAILY MEAN	101	Sep 4	86	Sep 7 1998
ANNUAL SEVEN-DAY MINIMUM	111	Sep 1	93	Sep 5 1998
MAXIMUM PEAK FLOW	20900	Feb 24	32300	Jan 5 1998
MAXIMUM PEAK STAGE	16.33	Feb 24	19.24	Jan 5 1998
INSTANTANEOUS LOW FLOW	99	Sep 4-5	78	Sep 11 1996
ANNUAL RUNOFF (AC-FT)	367600		438800	
ANNUAL RUNOFF (CFSM)	.88		1.05	
ANNUAL RUNOFF (INCHES)	11.99		14.31	
10 PERCENT EXCEEDS	798		1030	
50 PERCENT EXCEEDS	324		292	
90 PERCENT EXCEEDS	154		147	



07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
04...	1030	80513	80513	170	735	7.1	83	7.5	326	20.7
JAN										
10...	1000	81213	80513	554	742	11.2	88	8.2	273	4.2
29...	1715	81213	80513	1620	729	10.8	95	7.2	317	8.0
FEB										
14...	2250	81213	80513	1420	754	9.8	90	7.7	223	10.9
15...	1530	81213	80513	6280	755	9.8	87	7.6	179	9.6
17...	1015	81213	80513	2640	765	11.1	89	6.7	203	5.9
MAR										
14...	1000	81213	80513	709	730	9.6	91	8.0	286	11.2
MAY										
23...	1330	81213	80513	755	732	8.3	96	7.7	304	20.2
JUL										
25...	1230	81213	80513	152	734	7.2	96	7.7	341	28.7
AUG										
23...	1100	81213	80513	122	738	6.5	83	7.8	366	25.6

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
04...	130	48.0	2.00	4.50	.7	18.0	23	18.0	16.0	206
JAN										
10...	120	43.0	2.10	3.10	.4	11.0	17	13.0	14.0	170
29...	120	45.0	2.10	3.70	.6	14.0	20	14.0	15.0	175
FEB										
14...	85	31.0	1.80	3.40	.3	6.5	14	7.7	10.0	138
15...	70	25.0	1.80	3.50	.2	4.5	12	6.0	9.3	114
17...	80	29.0	1.90	2.90	.2	5.1	12	6.7	9.8	127
MAR										
14...	120	43.0	1.90	3.10	.4	9.2	14	11.0	10.0	171
MAY										
23...	140	52.0	3.20	3.00	.2	5.1	7	6.6	17.0	181
JUL										
25...	130	50.0	2.00	5.30	.7	18.0	22	18.0	13.0	218
AUG										
23...	130	49.0	2.10	5.40	.8	21.0	25	22.0	17.0	212

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	GEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	GEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT										
04...	<.010	<.20	--	--	--	2.50	--	<.010	--	--
JAN										
10...	.054	.26	.07	--	--	2.90	--	<.010	.21	3.2
29...	.012	1.0	.02	3.18	14.1	3.20	.066	.020	.99	4.2
FEB										
14...	.031	1.6	.04	3.08	13.6	3.10	.066	.020	1.6	4.7
15...	.022	1.5	.03	2.38	10.5	2.40	.066	.020	1.5	3.9
17...	.015	.56	.02	3.69	16.3	3.70	.033	.010	.55	4.3
MAR										
14...	.056	.33	.07	--	--	4.40	--	<.010	.27	4.7
MAY										
23...	.014	.27	.02	--	--	1.60	--	<.010	.26	1.9
JUL										
25...	.010	.20	.01	--	--	1.60	--	<.010	.19	1.8
AUG										
23...	.010	.20	.01	--	--	1.20	--	<.010	.19	1.4

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS--CONTINUED

WATER-QUALITY RECORDS--CONTINUED

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE SUS-PENDED (T/DAY) (80155)
OCT										
04...	1.04	.350	.340	.350	64	87	44	69	139	64
JAN										
10...	.245	.090	.080	.100	E15	22	39	98	52	78
29...	.368	.130	.120	.530	660	580	1700	--	--	--
FEB										
14...	.521	.170	.170	.420	7500	E9400	E17000	87	380	1460
15...	.460	.160	.150	.400	3900	E7800	E12000	91	330	5600
17...	.276	.090	.090	.150	1000	2100	2000	94	102	727
MAR										
14...	.460	.150	.150	.170	28	22	33	93	45	86
MAY										
23...	.184	.060	.060	.070	E4	E5	170	55	116	236
JUL										
25...	1.13	.380	.370	.390	54	94	80	98	50	21
AUG										
23...	1.04	.350	.340	.380	32	30	91	97	61	20

Remark codes used in this report:
< -- Less than
E -- Estimated value

07195800 FLINT CREEK AT SPRINGTOWN

LOCATION.--Lat 36°15'20", long 94°25'50", in NW1/4 sec.7, T.13 N., R.32 W., Benton County, Hydrologic Unit 11110103, on right bank 20 ft downstream from State Highway 12, 0.8 mi southwest of Springtown.

DRAINAGE AREA.--14.2 mi^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 above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	11	13	8.4	16	30	9.7	8.6	13	7.0	4.9	4.7
2	6.6	11	12	7.9	15	27	9.7	8.5	12	6.6	4.7	4.5
3	6.5	11	11	8.0	13	25	9.7	8.3	11	6.5	4.4	4.4
4	6.4	11	10	8.0	13	23	9.7	8.2	9.9	6.4	4.4	4.4
5	6.4	12	9.6	8.5	12	20	9.7	8.3	9.1	6.9	4.3	4.3
6	6.3	24	9.4	9.8	12	19	9.5	8.4	8.7	6.7	4.2	4.4
7	6.3	20	9.1	11	11	17	9.4	8.6	8.5	6.3	4.4	4.5
8	6.3	21	8.8	12	11	16	9.4	8.2	8.2	6.0	5.2	6.9
9	6.5	24	8.6	12	13	15	9.3	8.0	8.1	5.9	4.5	9.6
10	6.8	20	8.5	12	13	14	9.1	8.1	7.8	5.8	4.6	6.3
11	6.8	18	8.3	13	13	14	10	13	7.6	6.2	6.1	5.8
12	6.8	16	7.9	14	13	14	10	12	7.3	5.7	7.6	5.6
13	6.8	15	8.8	15	13	14	9.7	10	7.2	5.9	5.3	5.4
14	7.1	13	8.2	14	28	13	9.6	9.1	11	5.8	5.0	5.2
15	7.7	12	8.6	13	58	13	13	8.5	21	5.5	4.9	5.3
16	8.4	12	11	13	51	13	11	8.2	14	12	5.5	5.5
17	8.0	11	11	12	42	12	10	8.1	12	8.2	5.1	11
18	7.5	10	11	11	37	11	10	9.4	10	6.6	5.0	11
19	7.4	9.6	9.8	11	32	11	10	8.9	9.0	6.1	4.7	8.2
20	7.7	9.1	9.7	9.8	28	11	10	9.6	8.4	5.8	4.6	6.9
21	8.1	8.9	9.2	9.2	24	11	9.7	14	12	5.6	4.4	6.5
22	9.8	8.8	8.7	8.9	22	11	9.4	11	10	5.3	4.3	6.2
23	11	10	8.5	8.7	27	11	11	10	8.8	4.9	4.3	6.0
24	10	14	8.3	8.4	536	10	10	9.6	8.2	4.8	4.6	5.7
25	10	24	8.1	8.1	104	10	9.6	9.2	7.8	4.9	4.7	5.7
26	11	21	8.6	7.7	51	10	9.5	8.7	7.4	4.9	5.3	5.6
27	14	19	9.0	7.6	40	9.9	9.2	8.5	7.2	5.3	4.8	5.6
28	13	16	8.9	8.0	34	9.7	9.0	8.5	7.1	5.7	4.6	5.4
29	12	15	9.2	17	---	9.7	8.7	8.4	7.3	6.2	4.6	5.3
30	12	14	8.9	20	---	9.7	8.7	16	7.3	5.3	4.7	5.3
31	11	---	8.7	18	---	9.8	---	15	---	5.0	4.8	---
TOTAL	261.2	441.4	290.4	345.0	1282	443.8	293.3	298.9	286.9	189.8	150.5	181.2
MEAN	8.43	14.7	9.37	11.1	45.8	14.3	9.78	9.64	9.56	6.12	4.85	6.04
MAX	14	24	13	20	536	30	13	16	21	12	7.6	11
MIN	6.3	8.8	7.9	7.6	11	9.7	8.7	8.0	7.1	4.8	4.2	4.3
AC-FT	518	876	576	684	2540	880	582	593	569	376	299	359
CFSM	.59	1.04	.66	.78	3.22	1.01	.69	.68	.67	.43	.34	.43
IN.	.68	1.16	.76	.90	3.36	1.16	.77	.78	.75	.50	.39	.47

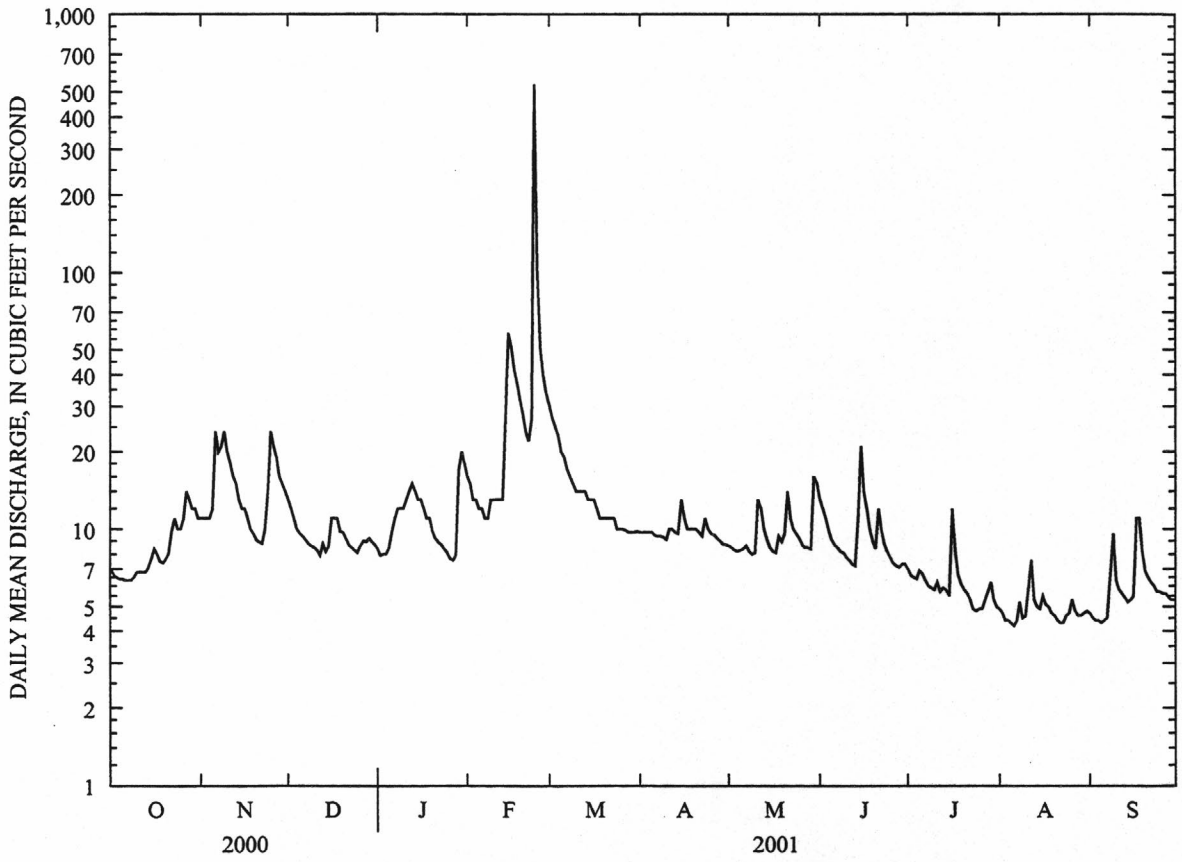
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY)

MEAN	10.7	18.4	18.1	14.5	16.1	21.2	21.1	18.3	20.4	9.78	7.86	9.03
MAX	51.8	83.7	63.0	50.7	45.8	57.7	60.5	107	121	42.5	61.5	38.3
(WY)	1987	1974	1988	1998	2001	1973	1965	1990	1974	1999	1961	1986
MIN	2.20	2.56	2.98	2.98	3.20	3.02	3.15	3.29	2.79	1.83	.77	1.88
(WY)	1983	1967	1967	1981	1967	1967	1981	1967	1966	1964	1980	1967

07195800 FLINT CREEK AT SPRINGTOWN--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1961 - 2001	
ANNUAL TOTAL	6501.4		4464.4			
ANNUAL MEAN	17.8		12.2		15.2	
HIGHEST ANNUAL MEAN					34.4	1974
LOWEST ANNUAL MEAN					3.80	1967
HIGHEST DAILY MEAN	911	Jun 21	536	Feb 24	1730	Jun 8 1974
LOWEST DAILY MEAN	4.6	Jun 9	4.2	Aug 6	.00	Aug 3 1980
ANNUAL SEVEN-DAY MINIMUM	5.0	Aug 30	4.5	Sep 1	.33	Aug 3 1980
MAXIMUM PEAK FLOW			1050	Feb 24	[a]14600	Jun 8 1974
MAXIMUM PEAK STAGE			8.06	Feb 24	[b]17.51	Jun 8 1974
INSTANTANEOUS LOW FLOW			4.0	Aug 4	[c].00	Aug 3 1980
ANNUAL RUNOFF (AC-FT)	12900		8860		11050	
ANNUAL RUNOFF (CFSM)	1.25		.86		1.07	
ANNUAL RUNOFF (INCHES)	17.03		11.70		14.59	
10 PERCENT EXCEEDS	21		16		29	
50 PERCENT EXCEEDS	8.4		9.1		8.4	
90 PERCENT EXCEEDS	5.5		5.1		3.3	

[a]From rating curve extended above 770 ft^3/s on basis of contracted-opening and flow-over-road measurement of peak flow
[b]From floodmark
[c]Result of pumpage for irrigation upstream from gage



07195855 FLINT CREEK NEAR WEST SILOAM SPRINGS, OKLAHOMA

LOCATION.--Lat 36°12'58", long 94°36'15", in NE1/4NE1/4 sec.14, T.20 N., R.25 E., Delaware County, Oklahoma, Hydrologic Unit 11110103, on left bank 800 ft downstream from county bridge, 2.5 mi from Arkansas-Oklahoma State line, northwest of West Siloam Springs, Oklahoma.

DRAINAGE AREA.--59.8 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 958.00 ft above sea level.

REMARKS.--Records good except estimated daily discharges, which are poor. Flow is partially regulated by Lake Siloam Springs, 4.5 mi upstream, and sewage discharge into Flint Creek from city of Gentry.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	39	e28	63	153	44	21	27	15	7.1	9.4
2	13	18	36	24	53	141	43	20	23	15	6.8	8.8
3	13	17	33	23	48	127	43	20	21	15	6.7	8.3
4	11	18	32	23	44	118	41	19	19	15	6.3	7.9
5	11	19	30	23	41	110	41	20	18	17	5.9	8.1
6	11	57	30	27	39	104	40	20	16	17	5.3	8.4
7	10	64	27	30	39	100	39	22	16	15	5.1	5.2
8	10	65	26	32	38	94	39	22	15	14	4.9	13
9	11	79	25	33	50	90	38	20	14	13	4.2	22
10	11	68	25	32	51	85	38	19	17	12	4.7	13
11	11	59	24	36	50	83	46	21	19	12	10	9.3
12	11	54	23	40	50	81	37	28	18	12	11	7.8
13	11	47	29	42	52	76	34	23	18	12	9.8	7.0
14	11	43	25	42	74	74	33	21	27	13	7.1	6.5
15	12	39	25	40	232	73	40	19	78	11	6.3	6.3
16	14	35	29	37	212	70	37	18	45	18	8.2	6.9
17	12	33	32	35	164	67	34	18	34	21	7.2	11
18	12	31	31	32	139	65	29	34	28	15	6.8	20
19	11	29	30	29	121	63	28	20	23	13	6.8	17
20	11	27	29	27	106	62	27	21	24	12	6.1	12
21	11	26	28	26	97	60	27	32	32	11	5.5	11
22	15	26	26	26	89	59	26	25	27	11	4.9	9.3
23	17	31	25	29	98	58	29	22	23	9.3	4.7	8.5
24	14	38	24	28	1390	57	26	20	21	8.3	4.8	7.8
25	12	69	23	27	524	55	25	19	19	8.2	6.3	7.3
26	21	70	29	27	260	54	24	18	16	9.0	13	8.2
27	22	61	e53	27	200	53	23	17	16	9.2	13	8.3
28	20	53	e50	28	171	53	23	18	15	9.0	12	8.1
29	19	47	e46	66	---	51	21	19	13	11	9.9	7.7
30	18	42	e38	83	---	46	20	34	15	9.8	9.1	7.4
31	16	---	e33	73	---	45	---	33	---	8.4	9.3	---
TOTAL	416	1281	955	1075	4495	2427	995	683	697	391.2	228.8	291.5
MEAN	13.4	42.7	30.8	34.7	161	78.3	33.2	22.0	23.2	12.6	7.38	9.72
MAX	22	79	53	83	1390	153	46	34	78	21	13	22
MIN	10	16	23	23	38	45	20	17	13	8.2	4.2	5.2
AC-FT	825	2540	1890	2130	8920	4810	1970	1350	1380	776	454	578

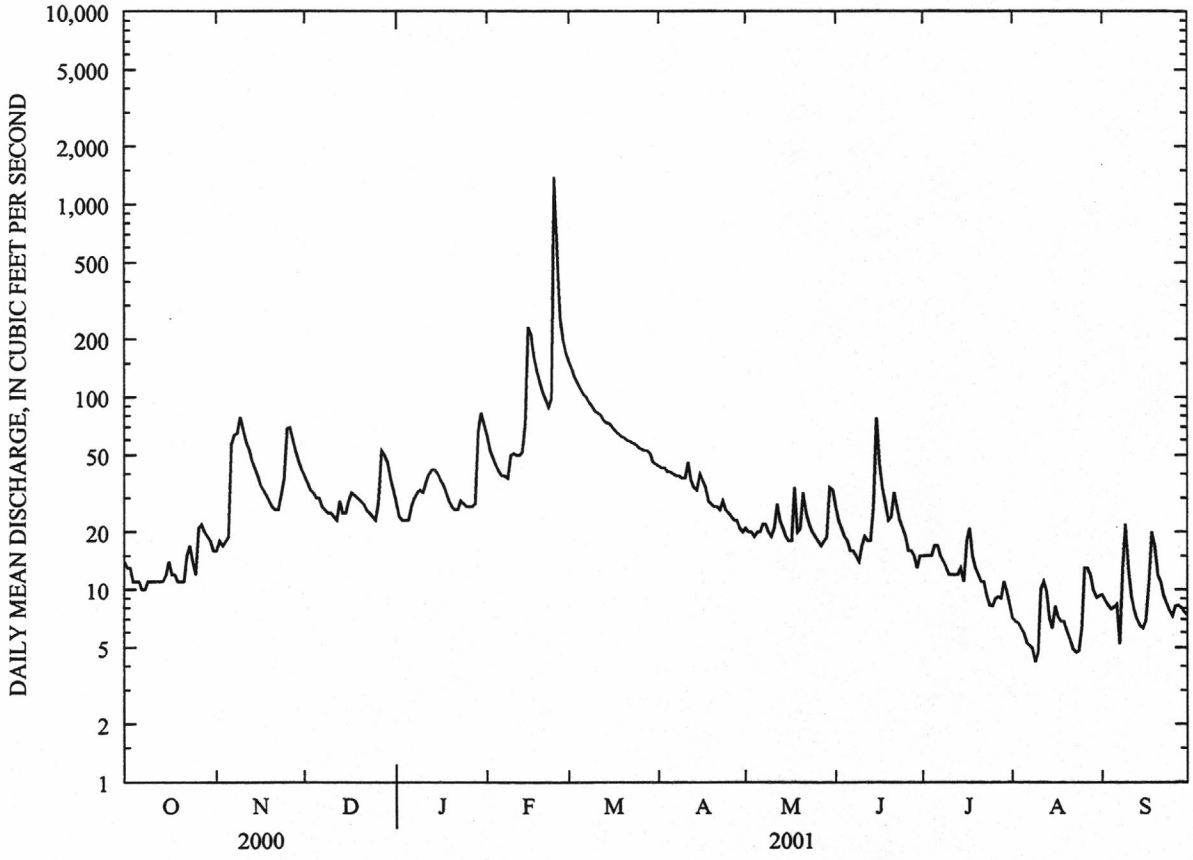
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	29.4	52.6	64.8	49.9	59.0	75.3	64.9	65.5	67.5	28.5	16.4	21.2
MAX	199	148	219	123	161	176	143	251	337	130	35.6	132
(WY)	1987	1994	1993	1985	2001	1985	1985	1990	2000	1999	1986	1986
MIN	3.48	3.86	6.62	3.88	4.37	7.04	7.43	20.9	9.72	2.79	.77	1.80
(WY)	1981	1981	1980	1980	1981	1981	1981	1981	1981	1980	1980	1980

07195855 FLINT CREEK NEAR WEST SILOAM SPRINGS, OKLAHOMA--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001	
ANNUAL TOTAL	20345.8		13935.5			
ANNUAL MEAN	55.6		38.2		49.5	
HIGHEST ANNUAL MEAN					97.9	1985
LOWEST ANNUAL MEAN					10.7	1981
HIGHEST DAILY MEAN	3160	Jun 21	1390	Feb 24	3160	Jun 21 2000
LOWEST DAILY MEAN	7.5	Sep 20	4.2	Aug 9	.40	Aug 7 1980
ANNUAL SEVEN-DAY MINIMUM	8.7	Sep 5	5.2	Aug 4	.56	Aug 5 1980
MAXIMUM PEAK FLOW			1810	Feb 24	[a]8750	Jun 21 2000
MAXIMUM PEAK STAGE			8.19	Feb 24	13.58	Jun 21 2000
ANNUAL RUNOFF (AC-FT)	40360		27640		35860	
10 PERCENT EXCEEDS	68		69		103	
50 PERCENT EXCEEDS	22		23		27	
90 PERCENT EXCEEDS	11		8.2		7.0	

[a]From rating curve extended above 3,900 ft^3/s
[e]Estimated



07196900 BARON FORK AT DUTCH MILLS

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, Hydrologic Unit 11110103, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 mi downstream from Fly Creek, and 2.9 mi upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--40.6 mi^2 (corrected.)

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year. Prior to October 1969, published as "Barren Fork at Dutch Mills."

REVISED RECORDS.--WRD Ark. 1970: Drainage area. WRD Ark. 1993: 1992 (m).

GAGE.--Water-stage recorder. Datum of gage is 986.47 ft above sea level.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	12	25	31	57	87	20	9.2	30	9.6	1.1	.74
2	.93	21	22	27	48	77	19	8.5	19	7.0	.68	.78
3	.95	14	20	25	43	68	19	7.5	13	5.6	.35	.84
4	.97	26	18	24	39	61	18	6.6	9.5	4.9	.19	.75
5	1.0	37	17	30	35	55	18	6.0	6.9	4.5	.18	1.3
6	1.5	225	16	43	33	52	18	6.0	5.4	4.4	.70	1.6
7	1.1	85	15	55	30	48	17	6.4	4.5	3.8	1.5	1.5
8	.98	81	14	54	29	45	16	6.0	3.9	3.2	1.4	5.6
9	1.0	95	13	44	80	42	15	5.4	15	2.9	1.3	31
10	1.1	60	13	38	57	40	15	5.0	12	2.6	1.4	8.9
11	1.3	46	13	66	46	40	21	5.7	6.5	2.4	3.3	5.5
12	1.3	40	11	70	40	42	23	12	4.4	2.1	3.1	4.4
13	1.3	42	15	58	44	38	18	7.1	3.4	1.9	2.3	5.2
14	1.3	34	14	52	251	36	17	5.5	390	1.9	1.8	6.0
15	1.7	29	16	43	e700	42	34	4.7	318	1.8	1.5	6.2
16	2.2	25	52	37	e300	49	30	4.1	71	1.7	2.5	6.5
17	3.0	21	43	34	180	42	24	3.7	41	2.0	2.9	7.2
18	4.8	19	33	33	118	38	20	37	29	1.9	2.2	14
19	5.4	17	25	30	93	35	19	17	21	1.5	1.7	21
20	6.6	15	22	26	78	33	18	15	16	1.3	1.4	16
21	8.5	13	20	24	67	31	18	42	61	1.2	.83	14
22	11	12	16	23	61	30	16	20	41	1.1	.48	13
23	14	16	16	22	132	29	15	11	25	1.0	.19	11
24	15	76	15	21	1220	27	14	7.7	17	.98	.30	10
25	15	146	15	20	298	25	13	5.7	13	.87	.37	9.4
26	19	68	124	19	151	24	12	4.7	10	.84	3.3	9.0
27	64	49	110	17	121	23	11	3.9	8.6	.80	1.4	8.7
28	34	40	75	17	100	22	11	4.1	7.3	4.5	.82	8.3
29	14	33	60	362	---	22	9.8	4.5	7.1	8.6	.66	8.4
30	12	28	44	129	---	23	8.9	95	11	2.9	.72	7.9
31	17	---	36	75	---	21	---	59	---	1.8	.83	---
TOTAL	262.90	1425	948	1549	4451	1247	527.7	436.0	1220.5	91.59	41.40	244.71
MEAN	8.48	47.5	30.6	50.0	159	40.2	17.6	14.1	40.7	2.95	1.34	8.16
MAX	64	225	124	362	1220	87	34	95	390	9.6	3.3	31
MIN	.93	12	11	17	29	21	8.9	3.7	3.4	.80	.18	.74
AC-FT	521	2830	1880	3070	8830	2470	1050	865	2420	182	82	485
CFSM	.21	1.17	.75	1.23	3.92	.99	.43	.35	1.00	.07	.03	.20
IN.	.24	1.31	.87	1.42	4.08	1.14	.48	.40	1.12	.08	.04	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

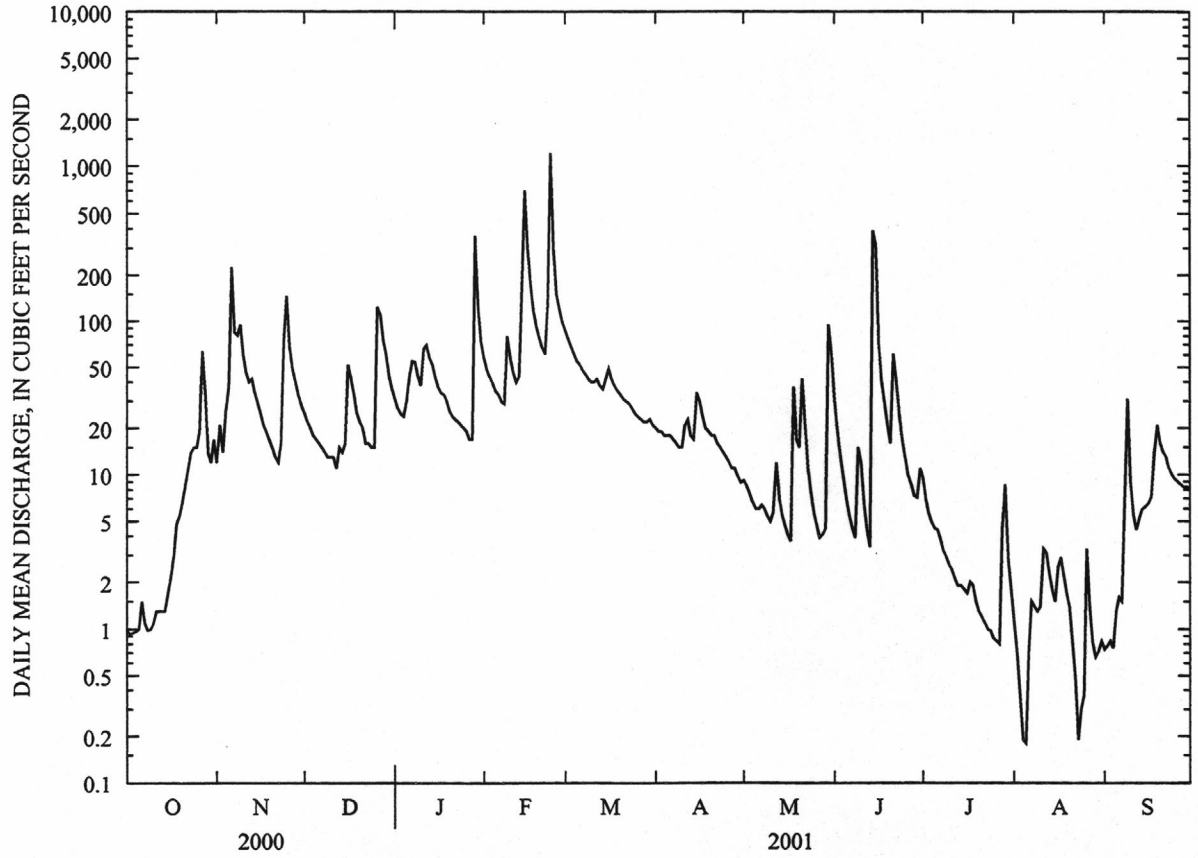
MEAN	26.0	57.4	52.2	48.4	57.8	76.9	77.3	70.1	42.1	17.2	7.01	18.6
MAX	218	347	221	258	163	205	310	307	366	131	62.0	242
(WY)	1971	1986	1988	1998	1975	1973	1990	1990	2000	1958	1992	1974
MIN	.094	.51	.55	.53	2.16	5.98	6.71	3.25	.35	.22	.000	.080
(WY)	1964	1964	1964	1964	1964	1967	1963	1977	1963	1963	1980	1980

07196900 BARON FORK AT DUTCH MILLS--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001	
ANNUAL TOTAL	19262.07		12444.80			
ANNUAL MEAN	52.6		34.1		45.5	
HIGHEST ANNUAL MEAN					104	1993
LOWEST ANNUAL MEAN					3.99	1963
HIGHEST DAILY MEAN	4660	Jun 21	1220	Feb 24	4660	Jun 21 2000
LOWEST DAILY MEAN	.38	Aug 26	.18	Aug 5	.00	Jul 23 1963
ANNUAL SEVEN-DAY MINIMUM	.44	Aug 25	.67	Aug 1	.00	Sep 20 1963
MAXIMUM PEAK FLOW			5000	Jun 14	[a]20900	Nov 18 1985
MAXIMUM PEAK STAGE			8.36	Jun 14	14.81	Nov 18 1985
INSTANTANEOUS LOW FLOW			.00	Aug 6	.00	at times
ANNUAL RUNOFF (AC-FT)	38210		24680		32930	
ANNUAL RUNOFF (CFSM)	1.30		.84		1.12	
ANNUAL RUNOFF (INCHES)	17.65		11.40		15.21	
10 PERCENT EXCEEDS	85		66		87	
50 PERCENT EXCEEDS	14		15		12	
90 PERCENT EXCEEDS	1.0		1.3		.90	

[a]From rating curve extended above 2,900 ft^3/s on basis of contracted-opening measurements at 12,900 ft^3/s and 19,500 ft^3/s

[e]Estimated



07196900 BARON FORK AT DUTCH MILLS--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1961, October 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT													
04	1200	80513	80513	.96	733	8.0	97	7.3	313	22.7	130	48.0	2.70
JAN													
05	1000	81213	80513	27	740	12.7	97	8.2	296	3.0	140	50.0	3.30
MAR													
07	1030	81213	80513	46	740	11.1	97	8.2	286	8.3	130	48.0	2.80
MAY													
23	1000	81213	80513	12	732	10.6	115	7.9	304	17.1	120	43.0	2.00
JUL													
12	1000	81213	80513	2.1	736	4.8	64	7.3	291	28.0	130	46.0	2.90
AUG													
23	0900	81213	80513	.10	735	3.5	45	7.6	267	26.5	110	40.0	2.70

DATE	POTASSIUM DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC SOLVED (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)
OCT											
04...	3.10	.3	6.9	10	9.8	18.0	173	<.010	<.20	--	--
JAN											
05...	2.70	.2	5.4	8	8.6	17.0	205	.080	.44	.10	5.49
MAR											
07...	2.10	.2	4.1	6	6.6	13.0	181	<.010	.32	--	--
MAY											
23...	3.70	.4	11.0	17	11.0	13.0	174	<.010	.36	--	--
JUL											
12...	3.40	.2	5.5	8	7.7	13.0	161	<.010	.32	--	--
AUG											
23...	2.90	.3	6.1	10	8.9	11.0	144	.030	<.20	.04	--

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT										
04...	--	.970	--	<.010	--	--	--	.020	<.010	.020
JAN										
05...	24.3	5.50	.033	.010	.36	5.9	.092	.030	.030	.050
MAR										
07...	--	5.40	--	<.010	--	5.7	.061	.020	.020	.030
MAY										
23...	--	2.10	--	<.010	--	2.5	.797	.280	.260	.300
JUL										
12...	--	.660	--	<.010	--	.98	--	<.020	<.010	.040
AUG										
23...	--	.070	--	<.010	--	--	--	<.020	<.010	.030

DATE	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT DISCHARGE SUSPENDED (T/DAY) (80155)
OCT						
04...	87	110	66	55	94	.24
JAN						
05...	120	160	420	100	49	3.6
MAR						
07...	150	230	E45	96	39	4.8
MAY						
23...	E4	E15	240	81	62	2.0
JUL						
12...	92	120	190	100	44	.25
AUG						
23...	42	110	330	96	41	.01

Remark codes used in this report:
< -- Less than
E -- Estimated value

07247000 POTEAU RIVER AT CAUTHRON

LOCATION.--Lat 34°55'08", long 94°17'55", in NW1/4SW1/4 sec.16, T.3 N., R.31 W., Scott County, Hydrologic Unit 11110105, on right bank at downstream side of highway bridge at Cauthron, 2.9 mi downstream from Cross Creek, 7.8 mi downstream from Jones Creek, and at mile 109.0.

DRAINAGE AREA.--203 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1037: 1939(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.53 ft above sea level. Prior to May 2, 1939, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. As of September 1974, flow from 92.2 mi^2 upstream from this station is controlled by 16 floodwater-detention reservoirs that have a total combined capacity of 39,082 acre-ft below the flood spillway crests, of which 33,524 acre-ft is flood detention capacity, 2,100 acre-ft is water-supply storage, and 3,458 acre-ft is sediment storage capacity. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1935 reached a stage of 27.4 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	46	203	335	513	1080	159	50	834	13	3.7	3.4
2	1.9	71	159	271	391	889	138	44	551	11	3.1	3.3
3	2.2	86	126	225	312	768	128	38	421	8.1	3.6	2.6
4	2.6	58	103	212	259	1430	117	32	341	5.8	4.1	2.0
5	2.4	51	87	314	212	981	106	28	279	5.4	3.6	1.8
6	2.4	1490	73	517	177	727	96	28	220	5.2	3.1	1.5
7	2.2	371	64	642	153	566	87	25	173	4.8	2.9	1.6
8	2.6	141	55	645	135	467	79	21	139	4.7	2.7	4.4
9	3.3	279	49	474	186	390	72	18	109	4.4	2.5	33
10	3.4	158	45	359	252	326	68	16	85	3.9	2.6	72
11	3.5	90	41	727	184	302	89	17	66	3.5	3.3	22
12	3.4	63	37	823	184	1240	190	167	54	3.1	4.1	10
13	3.7	260	48	555	239	715	135	79	42	3.1	4.4	6.9
14	4.2	159	115	506	938	525	122	35	35	3.2	3.2	5.5
15	5.5	94	154	374	3150	1030	471	21	44	3.6	2.4	4.7
16	7.8	67	453	294	8860	749	440	16	49	4.0	2.6	4.5
17	8.4	50	332	632	4800	508	258	13	31	3.7	2.7	4.4
18	9.8	37	214	874	2110	402	197	11	22	3.4	2.3	4.2
19	9.8	28	205	676	1710	339	165	11	15	3.0	2.1	5.0
20	9.9	21	146	439	1380	293	142	12	13	2.9	2.0	4.9
21	11	17	130	340	1200	252	125	2480	13	3.2	1.8	5.3
22	13	15	104	286	1030	218	110	1620	14	3.4	1.5	5.1
23	14	108	89	243	932	190	156	913	13	3.4	1.3	4.9
24	15	3380	77	209	1150	176	203	698	10	3.3	1.3	4.7
25	15	2420	76	177	1510	158	137	466	8.5	3.0	1.9	4.5
26	16	1200	288	150	1000	133	109	362	7.2	3.0	2.7	6.6
27	18	783	1400	131	1850	116	93	292	6.1	3.3	3.0	6.3
28	21	483	1180	114	1530	116	80	258	5.8	4.2	2.8	5.3
29	39	341	1140	2040	---	206	69	315	5.7	5.2	2.6	4.9
30	44	258	692	1510	---	230	58	1170	5.8	5.4	2.9	4.8
31	39	---	435	820	---	190	---	1240	---	4.5	3.4	---
TOTAL	335.9	12625	8320	15914	36347	15712	4399	10496	3612.1	141.7	86.2	250.1
MEAN	10.8	421	268	513	1298	507	147	339	120	4.57	2.78	8.34
MAX	44	3380	1400	2040	8860	1430	471	2480	834	13	4.4	72
MIN	1.9	15	37	114	135	116	58	11	5.7	2.9	1.3	1.5
AC-FT	666	25040	16500	31570	72090	31160	8730	20820	7160	281	171	496

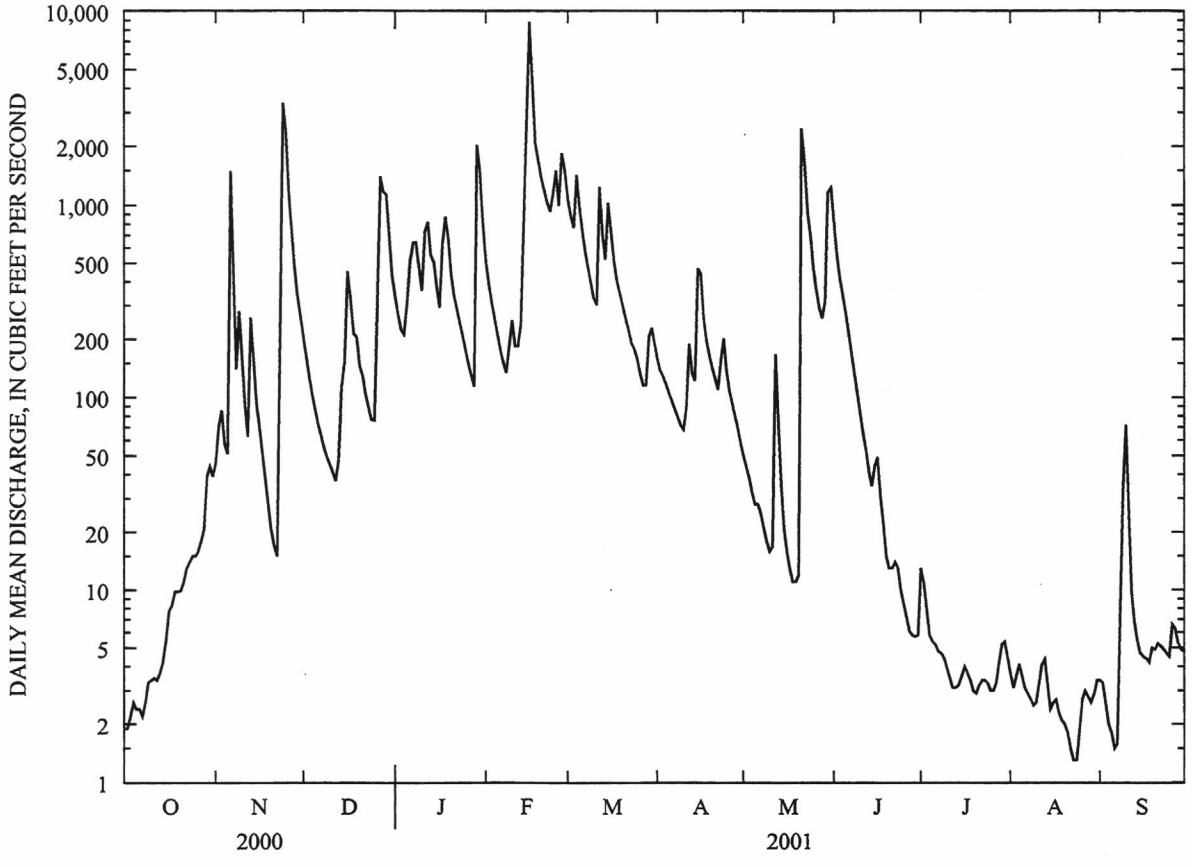
07247000 POTEAU RIVER AT CAUTHRON--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001, BY WATER YEAR (WY)

MEAN	107	291	355	300	401	421	333	464	219	57.9	19.3	22.3
MAX	1423	1900	1078	1075	1298	849	1092	2080	846	314	93.7	166
(WY)	1985	1997	1983	1998	2001	1975	1991	1990	1986	1981	1996	1996
MIN	.015	2.09	2.02	14.1	35.6	59.9	42.5	13.6	2.36	.41	.81	.19
(WY)	1979	1996	1990	1981	1996	1986	1976	1977	1988	1980	1976	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1975 - 2001	
ANNUAL TOTAL	56401.3		108239.0			
ANNUAL MEAN	154		297		[a]248	
HIGHEST ANNUAL MEAN					432	1985
LOWEST ANNUAL MEAN					48.7	1976
HIGHEST DAILY MEAN	3380	Nov 24	8860	Feb 16	16900	May 3 1990
LOWEST DAILY MEAN	1.9	Oct 1	1.3	Aug 23	.00	Aug 30 1976
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 30	1.7	Aug 19	.00	Oct 7 1978
MAXIMUM PEAK FLOW			11900	Feb 16	[b]24000	May 3 1990
MAXIMUM PEAK STAGE			19.05	Feb 16	[c]22.17	May 3 1990
INSTANTANEOUS LOW FLOW			1.3	Aug 23,24	.00	at times
ANNUAL RUNOFF (AC-FT)	111900		214700		180000	
10 PERCENT EXCEEDS	335		850		607	
50 PERCENT EXCEEDS	45		72		53	
90 PERCENT EXCEEDS	3.6		3.0		1.8	

[a]Prior to regulation, water years 1940-74, 218 ft^3/s
[b]Maximum discharge for period of record, 32,200 ft^3/s May 20, 1960
[c]Maximum gage height for period of record, 23.76 May 20, 1960



07247000 POTEAU RIVER AT CAUTHRON--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 27, 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT 02...	1130	81213	80513	1.9	745	12.3	140	7.4	356	20.4	34.8	5.70	5.00
JAN 04...	1100	81213	80513	222	752	--	--	8.8	67	2.2	14.9	2.50	2.10
MAR 06...	1400	81213	80513	465	751	10.3	93.2	8.5	49	10.3	13.7	2.50	1.80
MAY 10...	1100	81213	80513	16	750	5.6	67.3	7.7	104	23.9	19.7	3.60	2.60
JUL 10...	1130	81213	80513	3.8	745	5.4	75.0	7.7	129	31.4	22.5	3.90	3.10
AUG 28...	1200	81213	80513	3.1	747	5.0	66.0	7.8	348	29.0	27.1	4.10	4.10

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 02...	9.30	3.69	50.0	70.0	43.0	47.0	205	<.010	.66	--	<.020	<.010	--
JAN 04...	1.70	.688	6.1	43.8	5.6	7.8	50	.031	.31	.040	.930	<.010	.279
MAR 06...	1.30	.506	4.3	37.9	3.4	6.7	37	.047	.45	.061	.220	<.010	.403
MAY 10...	2.80	.951	9.7	47.6	7.7	10.0	63	.026	.63	.033	.020	<.010	.604
JUL 10...	3.60	1.38	15.0	54.6	10.0	11.0	77	<.010	.52	--	<.020	<.010	--
AUG 28...	8.30	4.35	52.0	75.0	38.0	24.0	196	.010	.80	.013	<.020	<.010	.790

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 02...	--	--	<.020	<.010	.050	22	E16	23	89	47	.24
JAN 04...	1.24	.184	.060	.060	.090	30	52	62	96	17	10
MAR 06...	.670	.245	.090	.080	.090	E21	E19	26	94	25	31
MAY 10...	.650	.245	.100	.080	.160	E4	E5	32	74	37	1.6
JUL 10...	--	.123	.090	.040	.100	E5	E9	26	93	33	.34
AUG 28...	--	.092	.040	.030	.090	E8	59	81	94	52	.44

Remark Codes Used in This report:
< -- Less than
E -- Estimated value

07249400 JAMES FORK NEAR HACKETT

LOCATION.--Lat 35°09'45", long 94°24'25", in NW1/4NW1/4 sec.34, T.6 N., R.32 W., Sebastian County, Hydrologic Unit 11110105, near left bank on downstream side of bridge on State Highway 45, 1.7 mi south of Hackett, 2.0 mi downstream from Elder Branch, 2.0 mi upstream from small tributary, and 3.6 mi upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi^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 457.71 ft above sea level. Prior to Oct. 1, 1990, at datum 2.00 ft higher.

REMARKS.--Water-discharge records good except estimated daily discharges, which are fair. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	15	e70	189	263	613	101	25	418	14	2.2	1.5
2	.88	17	e60	155	202	433	86	23	246	11	2.0	1.5
3	.71	16	e40	125	163	330	79	21	171	11	1.7	1.5
4	.69	21	e35	140	142	446	73	20	130	8.6	1.4	1.7
5	.53	18	e30	329	118	302	66	19	100	7.1	1.5	1.8
6	.80	615	e25	569	104	221	61	17	82	6.3	1.5	6.3
7	.57	196	24	479	92	193	60	15	70	5.7	1.4	32
8	1.1	115	22	401	87	171	59	14	63	5.0	1.6	51
9	1.9	325	19	277	205	152	47	12	55	4.6	1.5	85
10	1.8	133	17	203	295	136	45	11	48	4.0	1.6	85
11	1.5	66	16	455	160	126	69	9.6	42	3.7	1.8	51
12	1.4	50	13	573	127	316	203	8.8	37	3.6	3.4	e30
13	1.3	111	27	322	135	226	96	7.7	32	3.5	5.2	e22
14	1.2	83	111	285	410	164	92	6.7	29	3.7	4.7	e15
15	1.8	49	188	212	2700	218	369	6.1	35	3.6	3.5	e11
16	2.3	35	498	160	4740	189	257	5.5	32	3.4	3.4	e8.5
17	2.3	26	253	356	2870	139	135	4.9	28	3.2	3.3	e7.0
18	2.6	19	149	642	987	120	100	5.7	22	3.0	3.1	e6.0
19	2.8	14	133	345	659	109	86	4.8	19	2.7	3.0	e6.5
20	2.9	12	90	224	483	100	78	13	17	2.2	2.8	e11
21	3.8	11	82	171	383	93	71	3330	17	1.8	2.6	e9.0
22	4.2	10	60	148	311	86	62	533	19	1.7	2.5	e7.0
23	4.4	14	52	128	309	79	62	195	18	1.0	2.0	e6.0
24	5.4	e1120	45	112	779	74	93	128	14	e.40	1.9	e5.5
25	6.2	e826	45	96	1230	69	67	100	12	e.30	1.8	e5.0
26	6.9	e374	198	83	473	62	52	78	10	e.30	1.8	e4.5
27	7.8	e223	1470	74	858	56	44	65	9.2	e.70	1.9	e4.0
28	7.8	e158	1180	59	1070	58	37	82	8.4	e1.7	2.0	e3.5
29	9.6	e122	897	1920	---	147	32	118	8.1	e2.4	1.9	e3.3
30	14	e94	402	1200	---	173	29	1830	12	e2.6	1.6	e3.0
31	14	---	249	406	---	126	---	1390	---	2.2	1.5	---
TOTAL	114.38	4888	6500	10838	20355	5727	2711	8098.8	1803.7	125.00	72.1	486.1
MEAN	3.69	163	210	350	727	185	90.4	261	60.1	4.03	2.33	16.2
MAX	14	1120	1470	1920	4740	613	369	3330	418	14	5.2	85
MIN	.53	10	13	59	87	56	29	4.8	8.1	.30	1.4	1.5
AC-FT	227	9700	12890	21500	40370	11360	5380	16060	3580	248	143	964
CFSM	.03	1.11	1.43	2.38	4.95	1.26	.61	1.78	.41	.03	.02	.11
IN.	.03	1.24	1.64	2.74	5.15	1.45	.69	2.05	.46	.03	.02	.12

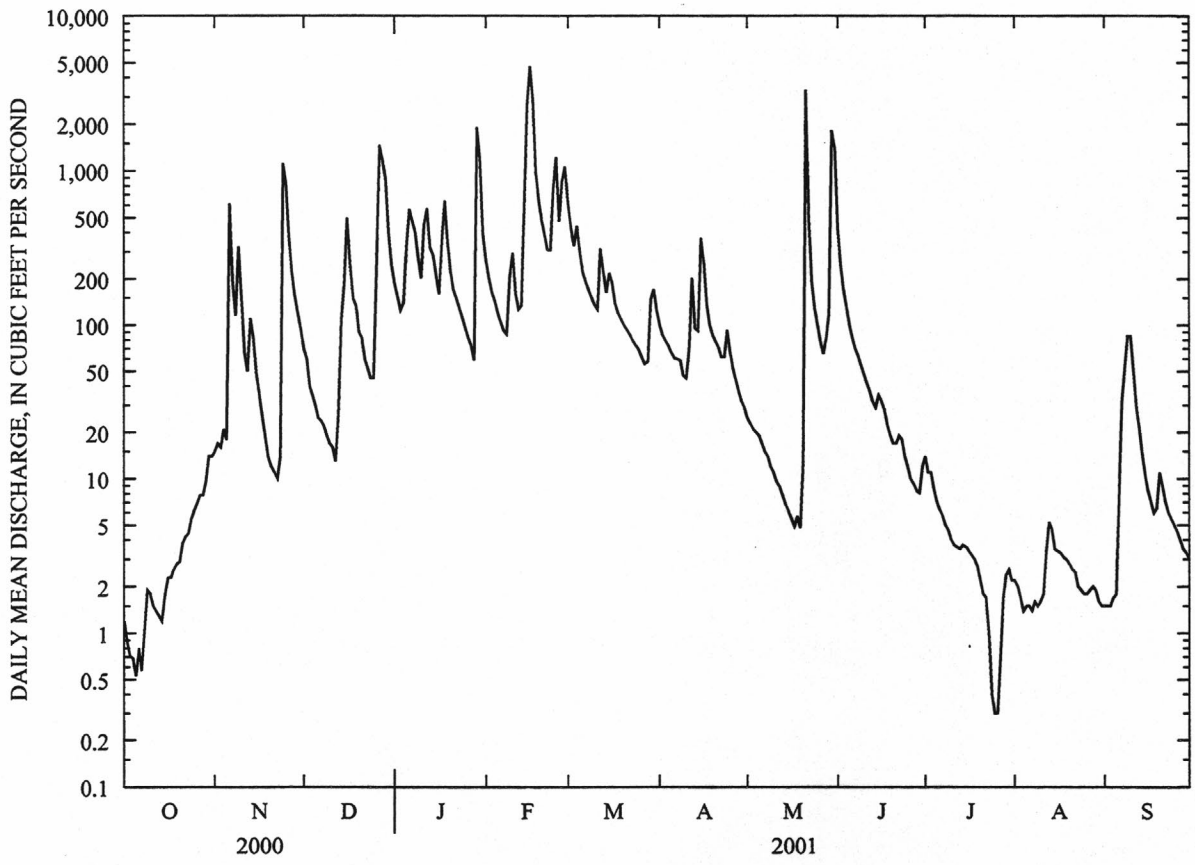
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

MEAN	72.1	159	204	166	218	267	229	279	99.9	39.6	10.8	19.8
MAX	867	915	760	820	727	915	1047	1203	342	430	81.7	159
(WY)	1985	1997	1972	1998	2001	1973	1973	1990	1989	1961	1981	1996
MIN	.000	.000	.40	.50	1.08	.92	31.4	20.5	3.14	1.69	.015	.000
(WY)	1964	1964	1967	1964	1967	1967	1982	2000	1966	1964	1980	1963

07249400 JAMES FORK NEAR HACKETT--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001	
ANNUAL TOTAL	26011.78		61719.08			
ANNUAL MEAN	71.1		169		145	
HIGHEST ANNUAL MEAN					308	1973
LOWEST ANNUAL MEAN					29.5	1976
HIGHEST DAILY MEAN	2410	Jun 21	4740	Feb 16	17100	May 14 1968
LOWEST DAILY MEAN	.53	Oct 5	.30	Jul 25	.00	Aug 17 1963
ANNUAL SEVEN-DAY MINIMUM	.75	Oct 2	.75	Oct 2	.00	Aug 17 1963
MAXIMUM PEAK FLOW			5130	Feb 16	[a]30000	May 14 1968
MAXIMUM PEAK STAGE			23.29	Feb 16	[b]25.00	May 14 1968
INSTANTANEOUS LOW FLOW					.00	at times
ANNUAL RUNOFF (AC-FT)	51590		122400		105300	
ANNUAL RUNOFF (CFSM)	.48		1.15		.99	
ANNUAL RUNOFF (INCHES)	6.58		15.62		13.44	
10 PERCENT EXCEEDS	125		401		280	
50 PERCENT EXCEEDS	20		37		31	
90 PERCENT EXCEEDS	2.8		1.8		1.6	

[a]From rating curve extended above 20,000 ft^3/s
[b]At present datum
[e]Estimated



07249400 JAMES FORK NEAR HACKETT--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1971, October 1975 to September 1978, October 1983 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT										
02...	1415	80513	80513	.91	745	8.6	100	7.4	412	22.0
JAN										
04...	1330	81213	80513	128	750	--	--	8.2	167	2.0
MAR										
06...	1030	81213	80513	221	756	10.3	92	7.6	146	9.9
MAY										
09...	0930	81213	80513	13	752	5.2	60	7.5	289	21.8
JUL										
10...	0900	81213	80513	4.2	752	2.9	39	7.7	372	29.9
AUG										
28...	1445	81213	80513	1.9	748	4.6	62	7.6	438	29.8

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
OCT										
02...	150	23.0	23.0	3.30	1	29.0	29	7.9	71.0	249
JAN										
04...	55	9.30	7.60	1.90	.6	11.0	30	6.6	34.0	114
MAR										
06...	46	8.10	6.30	1.60	.6	9.7	30	4.6	30.0	97
MAY										
09...	91	15.0	13.0	2.10	.8	17.0	28	5.7	56.0	158
JUL										
10...	130	20.0	19.0	2.60	.9	23.0	28	5.7	66.0	207
AUG										
28...	130	19.0	21.0	3.00	1	35.0	36	7.9	68.0	247

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA+ ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, SOLVED (MG/L AS PO4) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS P) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED TOTAL (MG/L AS P) (00671)
OCT										
02...	.020	.31	.03	.030	<.010	.29	.34	--	<.020	<.010
JAN										
04...	.012	.28	.02	1.60	<.010	.27	1.9	--	<.020	<.010
MAR										
06...	<.010	.49	--	.500	<.010	--	.99	.031	<.020	.010
MAY										
09...	.052	.48	.07	.090	<.010	.43	.57	--	<.020	<.010
JUL										
10...	.050	.30	.06	.030	<.010	.25	.33	--	<.020	<.010
AUG										
28...	.010	.50	.01	<.020	<.010	.49	--	--	<.020	<.010

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT							
02...	<.020	68	68	46	91	66	.16
JAN							
04...	.020	26	E7	57	99	50	17
MAR							
06...	.030	E35	66	58	88	38	23
MAY							
09...	.020	E8	26	25	95	45	1.6
JUL							
10...	<.020	45	46	89	98	52	.60
AUG							
28...	<.020	<E17	E16	49	97	53	.27

Remark codes used in this report:
< -- Less than
E -- Estimated value

07249800 LEE CREEK AT SHORT, OKLAHOMA

LOCATION.--Lat 35°33'57", long 94°31'53", in SE1/4 on line between secs. 27 and 34, T.13 N., R.26 E., Indian Meridian, Sequoyah County, Oklahoma, Hydrologic Unit 11110104, on right bank at right downstream end of bridge on State Highway 101, 0.5 mi west of Short, Oklahoma.

DRAINAGE AREA.--236 mi^2.

PERIOD OF RECORD.--September 1999 to current year. Occasional low-flow measurements water years 1958-63 and 1987-89.

GAGE.--Water-stage recorder.

REMARKS.--Water-discharge records good except estimated daily discharges, which are fair. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	112	281	487	749	1160	116	33	633	14	3.4	.97
2	e.00	386	233	399	621	971	106	29	366	13	3.1	.58
3	e3.0	410	194	332	534	832	100	25	230	12	2.2	.52
4	12	254	165	292	471	717	95	22	157	11	1.6	.07
5	16	224	144	272	407	609	89	21	113	10	1.2	.01
6	22	2700	128	308	358	535	84	20	85	9.6	.91	.00
7	18	1340	115	455	320	477	79	19	65	9.0	.44	.00
8	17	780	104	564	286	425	75	17	52	8.7	.30	.68
9	17	852	95	535	384	375	69	16	42	8.1	.43	3.3
10	17	691	88	460	692	331	64	15	37	7.7	.23	2.7
11	18	521	81	465	559	298	67	15	32	7.4	.41	2.7
12	19	405	74	681	487	293	98	17	28	7.9	.32	2.4
13	21	352	89	643	503	282	149	17	24	7.0	.42	2.1
14	22	322	92	613	1030	251	120	18	21	7.4	.11	1.7
15	23	263	87	553	4220	251	127	15	46	7.4	.03	1.2
16	27	218	103	476	5670	339	312	13	105	7.7	.42	1.0
17	30	181	216	427	2620	352	246	12	68	7.3	.15	.82
18	31	152	262	389	1590	299	193	13	44	6.8	.01	1.9
19	e33	130	212	356	1210	268	165	12	33	6.4	.00	e3.0
20	35	111	175	308	987	246	151	14	25	6.2	.00	e4.0
21	40	96	151	264	826	227	138	23	28	5.6	.00	e8.5
22	50	84	132	234	713	211	124	31	27	4.9	.00	e21
23	58	112	114	213	780	197	112	52	25	4.1	.00	e15
24	59	469	106	197	7110	182	99	39	26	3.9	.00	e11
25	62	1680	101	181	3700	165	85	28	23	4.0	.00	7.3
26	67	1010	153	165	1740	149	73	21	19	4.4	3.2	5.0
27	96	710	955	152	1610	138	63	16	17	4.2	3.1	3.7
28	438	555	1090	140	1480	129	54	14	15	3.9	3.4	2.6
29	255	440	939	1130	---	126	46	153	14	4.8	2.7	1.8
30	149	346	738	1540	---	129	39	2700	14	4.3	1.9	1.2
31	120	---	594	985	---	124	---	1400	---	3.8	.93	---
TOTAL	1775.00	15906	8011	14216	41657	11088	3338	4840	2414	222.5	30.91	106.75
MEAN	57.3	530	258	459	1488	358	111	156	80.5	7.18	1.00	3.56
MAX	438	2700	1090	1540	7110	1160	312	2700	633	14	3.4	21
MIN	.00	84	74	140	286	124	39	12	14	3.8	.00	.00
AC-FT	3520	31550	15890	28200	82630	21990	6620	9600	4790	441	61	212
CFSM	.24	2.25	1.09	1.94	6.30	1.52	.47	.66	.34	.03	.00	.02
IN.	.28	2.51	1.26	2.24	6.57	1.75	.53	.76	.38	.04	.00	.02

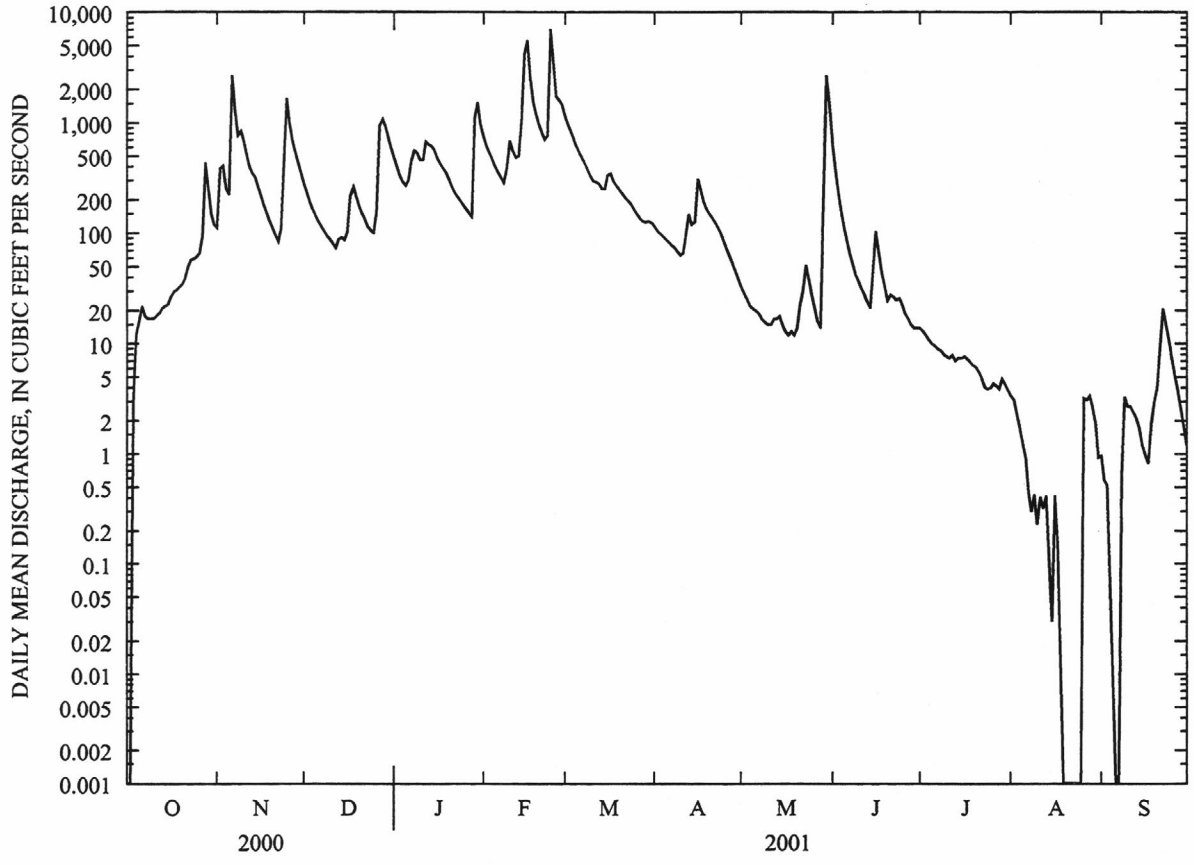
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	28.9	270	213	262	764	358	155	440	911	90.9	2.96	1.91
MAX	57.3	530	258	459	1488	359	200	724	1741	175	4.93	3.56
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	2001
MIN	.49	9.99	168	66.0	65.9	358	111	156	80.5	7.18	1.00	.27
(WY)	2000	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2000

07249800 LEE CREEK AT SHORT, OKLAHOMA--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	127035.82		103605.16			
ANNUAL MEAN	347		284		288	
HIGHEST ANNUAL MEAN					292	2000
LOWEST ANNUAL MEAN					284	2001
HIGHEST DAILY MEAN	22300	Jun 21	7110	Feb 24	22300	Jun 21 2000
LOWEST DAILY MEAN	.00	Sep 5	.00	Oct 1	.00	Sep 16 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 5	.00	Aug 19	.00	Oct 15 1999
MAXIMUM PEAK FLOW			10500	Feb 24	[a]44000	Jun 21 2000
MAXIMUM PEAK STAGE			13.57	Feb 24	25.07	Jun 21 2000
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	252000		205500		208600	
ANNUAL RUNOFF (CFSM)	1.47		1.20		1.22	
ANNUAL RUNOFF (INCHES)	20.02		16.33		16.58	
10 PERCENT EXCEEDS	751		699		626	
50 PERCENT EXCEEDS	104		84		53	
90 PERCENT EXCEEDS	1.4		1.4		.45	

[a]From rating curve extended above 17,000 ft^3/s on basis of slope-area measurement of peak flow
[e]Estimated



07249870 LITTLE LEE CREEK NEAR GREASY, OKLAHOMA

LOCATION.--Lat 35°39'07", long 94°37'19", in NE1/4NW1/4 sec.35, T.14 N., R.25 E., Adair County, Oklahoma, Hydrologic Unit 11110104, on right bank downstream from bridge on graveled county road, 4.6 mi southeast of Greasy, Oklahoma, 5.9 mi northwest of Nicut, Oklahoma, and 8.3 mi west of the Oklahoma-Arkansas State Line.

DRAINAGE AREA.--51.3 mi^2.

PERIOD OF RECORD.--September 2000 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor and discharges above 200 cfs, which are fair. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	17	32	53	105	188	23	8.6	108	9.3	1.3	.06
2	2.3	32	27	42	76	143	23	8.1	57	8.9	1.1	.23
3	2.3	24	23	36	62	112	22	7.7	40	8.3	.78	.08
4	2.7	24	20	33	54	86	21	7.3	32	7.8	.51	.00
5	3.1	130	18	35	46	65	e20	7.2	27	7.4	.42	.00
6	3.9	668	17	47	42	55	e19	7.1	24	7.2	.28	.00
7	3.4	207	16	68	38	48	e18	6.7	22	6.7	.28	.00
8	3.0	167	14	83	35	42	e18	6.4	20	6.3	.27	1.1
9	2.8	197	14	63	81	37	e17	6.0	20	6.0	.10	5.0
10	2.7	110	13	51	83	33	e17	5.7	19	5.6	.03	3.4
11	2.6	66	12	85	63	33	e20	5.9	18	5.4	.20	2.7
12	2.6	49	11	106	55	38	e20	6.2	17	5.0	.04	2.3
13	2.5	47	14	87	66	33	e17	5.8	16	4.8	.00	2.0
14	2.0	37	13	76	312	31	e16	5.8	20	4.6	.00	1.7
15	2.8	30	14	59	952	35	e22	5.4	118	4.4	.03	1.7
16	3.4	26	26	49	1010	42	e31	4.9	29	4.2	.41	1.8
17	3.7	21	34	45	410	37	e25	4.5	20	4.0	.10	2.3
18	3.8	18	28	43	257	34	e22	7.1	16	3.9	.00	4.4
19	3.6	16	23	38	193	32	e18	5.9	14	3.4	.00	5.5
20	3.6	14	20	32	149	30	e16	9.5	12	3.2	.00	5.9
21	4.1	13	19	29	117	28	e15	12	17	2.9	.00	5.2
22	5.7	12	17	27	93	26	e14	9.8	16	2.7	.00	e4.7
23	7.0	23	16	25	219	28	e13	8.3	13	2.5	.00	e4.1
24	6.5	238	15	23	e2250	28	e12	7.6	12	2.2	.00	3.6
25	5.9	389	16	21	491	27	e12	6.7	12	2.1	.00	3.3
26	22	181	86	20	242	26	11	6.1	11	1.9	.90	3.0
27	33	105	255	19	409	25	10	5.6	11	1.7	.47	2.9
28	24	69	206	18	273	24	9.7	5.8	9.7	1.8	.04	2.7
29	19	49	156	456	---	24	9.2	48	10	2.2	.00	2.4
30	18	38	102	272	---	25	8.7	904	10	1.7	.00	2.2
31	18	---	70	159	---	24	---	254	---	1.5	.02	---
TOTAL	222.3	3017	1347	2200	8183	1439	519.6	1399.7	770.7	139.6	7.28	74.27
MEAN	7.17	101	43.5	71.0	292	46.4	17.3	45.2	25.7	4.50	.23	2.48
MAX	33	668	255	456	2250	188	31	904	118	9.3	1.3	5.9
MIN	2.0	12	11	18	35	24	8.7	4.5	9.7	1.5	.00	.00
AC-FT	441	5980	2670	4360	16230	2850	1030	2780	1530	277	14	147

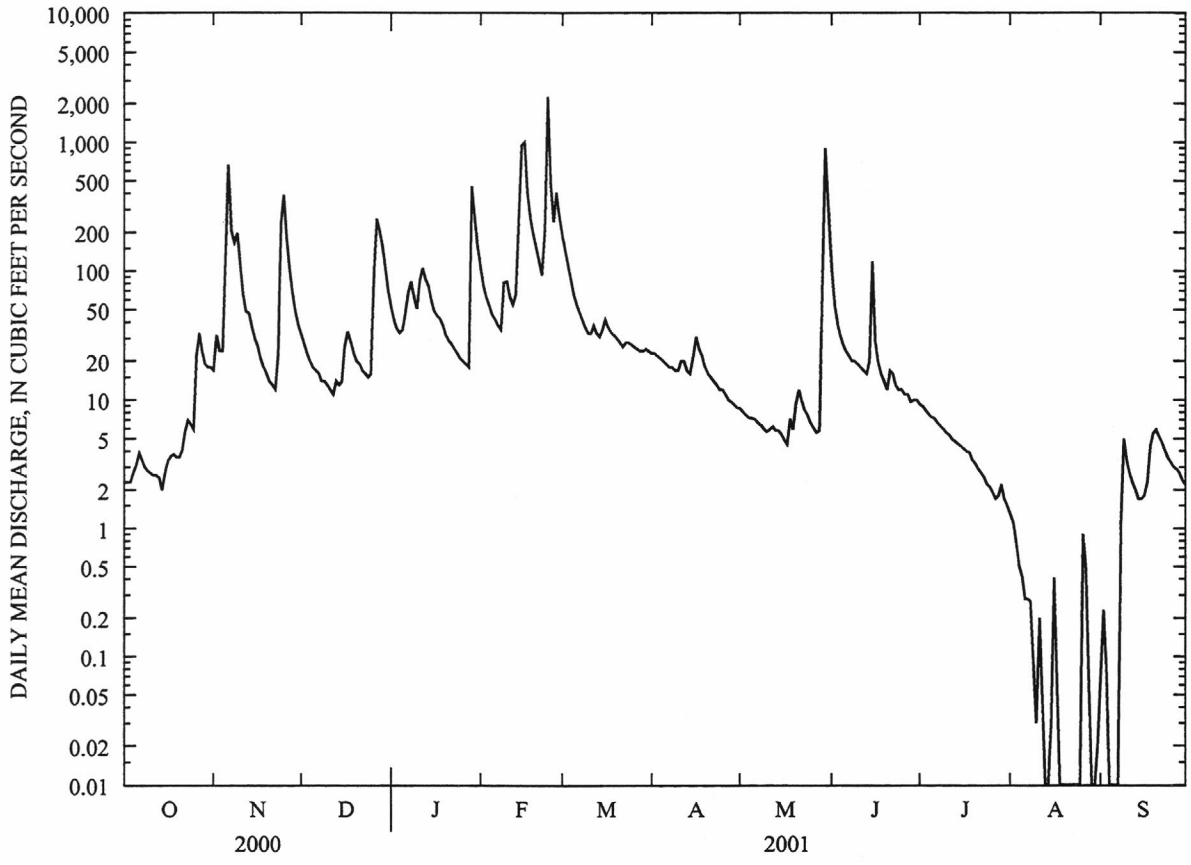
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001, BY WATER YEAR (WY)

MEAN	7.17	101	43.5	71.0	292	46.4	17.3	45.2	25.7	4.50	.23	2.48
MAX	7.17	101	43.5	71.0	292	46.4	17.3	45.2	25.7	4.50	.23	2.48
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	7.17	101	43.5	71.0	292	46.4	17.3	45.2	25.7	4.50	.23	2.48
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

07249870 LITTLE LEE CREEK NEAR GREASY, OKLAHOMA--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
ANNUAL TOTAL	19319.45	
ANNUAL MEAN	52.9	
HIGHEST DAILY MEAN	2250	Feb 24
LOWEST DAILY MEAN	.00	Aug 13
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 18
MAXIMUM PEAK FLOW	[a]	Feb 24
MAXIMUM PEAK STAGE	8.54	Feb 24
INSTANTANEOUS LOW FLOW	.00	at times
ANNUAL RUNOFF (AC-FT)	38320	
10 PERCENT EXCEEDS	107	
50 PERCENT EXCEEDS	16	
90 PERCENT EXCEEDS	1.0	

[a]Undetermined
[e]Estimated



07249910 LITTLE LEE CREEK NEAR SHORT, OKLAHOMA

LOCATION.--Lat 35°34'32", long 94°33'20", in SW1/4NW1/4 sec.28, T.13 N., R.26 W., Sequoyah County, Oklahoma, Hydrologic Unit 11110104, on downstream right abutment of bridge on Oklahoma State Road 101, 500 ft southeast of junction of Oklahoma State Roads 101 and 64B, approximatelly 2 mi northwest of Short, Oklahoma, and 6.9 mi west of the Arkansas-Oklahoma State Line.

DRAINAGE AREA.--97.5 mi^2.

PERIOD OF RECORD.--September 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 25.00 ft above sea level.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	93	120	153	201	290	50	23	209	6.0	e.40	e.05
2	.00	157	108	136	169	229	48	22	119	e5.5	e.30	e.10
3	.00	122	100	124	150	190	47	20	83	e5.2	e.20	e.05
4	.00	107	94	118	138	160	46	19	63	e4.7	e.20	e.00
5	.00	144	89	119	126	136	44	18	50	e4.4	e.10	e.00
6	.00	1570	85	138	119	121	43	18	41	e4.3	e.10	e.00
7	.00	433	82	169	112	110	41	16	34	e4.0	e.05	e.00
8	.00	304	79	185	107	101	40	13	29	e3.7	e.03	e.20
9	.00	363	76	164	143	93	39	12	26	e3.5	e.02	e.40
10	.00	244	74	146	170	86	37	10	24	e3.2	e.01	e1.8
11	.00	185	72	169	148	82	39	11	20	e3.0	e.01	e1.5
12	.00	154	69	202	136	87	39	13	17	e2.8	e.00	e1.0
13	.00	148	76	181	142	83	38	10	14	e2.6	e.00	e.80
14	.00	133	74	171	421	77	37	7.3	12	e2.4	e.00	e.70
15	.00	120	75	151	1580	81	51	6.5	75	e2.3	e.00	e.70
16	.00	110	94	137	1930	96	78	5.0	46	e2.1	e.10	e.80
17	.00	101	121	130	741	91	66	3.1	31	e1.8	e.10	e1.1
18	.00	93	114	127	429	85	58	10	24	e1.7	e.05	e1.4
19	.00	87	105	120	314	80	53	13	19	e1.6	e.00	e1.8
20	.00	82	98	112	250	76	51	12	16	e1.4	e.00	e2.4
21	.00	77	93	105	210	72	48	27	23	e1.3	e.00	e3.5
22	.00	74	89	100	183	69	45	25	25	e1.2	e.00	e2.6
23	.00	114	86	97	319	66	42	21	20	e1.1	e.00	e2.2
24	1.2	596	83	94	e3570	62	39	19	18	e1.1	e.00	e2.2
25	6.5	619	83	90	967	59	36	16	16	e.90	e.00	e1.9
26	19	311	117	87	437	55	33	14	13	e.80	e.50	e1.7
27	171	226	362	84	512	53	31	12	10	e.70	e.10	e1.6
28	195	181	340	82	408	52	29	12	8.0	e.60	e.05	e1.4
29	109	151	283	555	---	51	27	159	7.5	e.90	e.00	e1.3
30	95	132	217	426	---	52	25	e2400	7.6	e.80	e.00	e1.2
31	94	---	179	263	---	51	---	572	---	e.60	e.00	---
TOTAL	690.71	7231	3737	4935	14132	2996	1300	3538.9	1100.1	76.20	2.32	34.40
MEAN	22.3	241	121	159	505	96.6	43.3	114	36.7	2.46	.075	1.15
MAX	195	1570	362	555	3570	290	78	2400	209	6.0	.50	3.5
MIN	.00	74	69	82	107	51	25	3.1	7.5	.60	.00	.00
AC-FT	1370	14340	7410	9790	28030	5940	2580	7020	2180	151	4.6	68

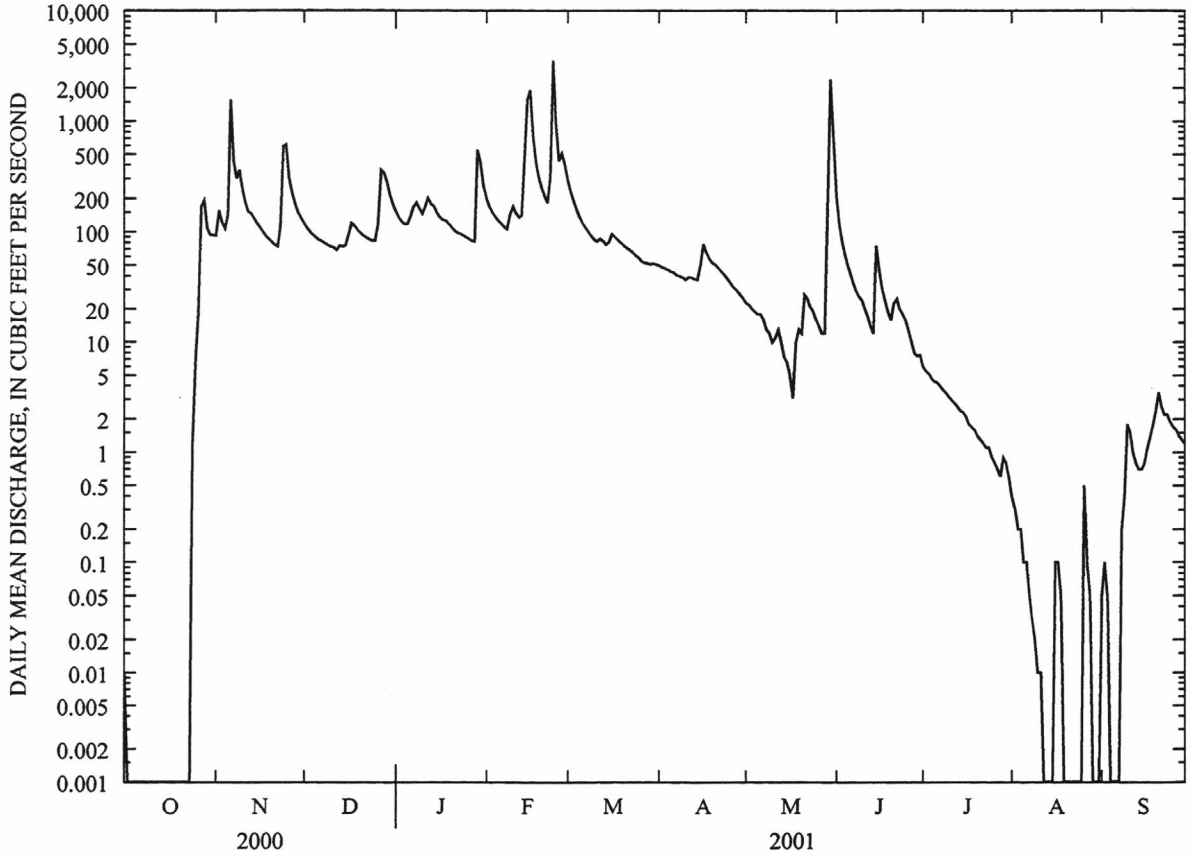
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001, BY WATER YEAR (WY)

MEAN	22.3	241	121	159	505	96.6	43.3	114	36.7	2.46	.075	1.15
MAX	22.3	241	121	159	505	96.6	43.3	114	36.7	2.46	.075	1.15
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	22.3	241	121	159	505	96.6	43.3	114	36.7	2.46	.075	1.15
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

07249910 LITTLE LEE CREEK NEAR SHORT, OKLAHOMA--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
ANNUAL TOTAL	39773.63	
ANNUAL MEAN	109	
HIGHEST DAILY MEAN	3570	Feb 24
LOWEST DAILY MEAN	.00	Oct 2
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 2
MAXIMUM PEAK FLOW	[a]	Feb 24
MAXIMUM PEAK STAGE	10.07	Feb 24
INSTANTANEOUS LOW FLOW	.00	at times
ANNUAL RUNOFF (AC-FT)	78890	
10 PERCENT EXCEEDS	201	
50 PERCENT EXCEEDS	41	
90 PERCENT EXCEEDS	.00	

[a]Undetermined
[e]Estimated



07249985 LEE CREEK NEAR SHORT, OKLAHOMA

LOCATION.--Lat 35°31'09", long 94°27'58", in NW1/4NE1/4 sec.17, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Oklahoma, Hydrologic Unit 11110104, on left bank 0.5 mi west of Arkansas-Oklahoma State line, 500 ft downstream from Webbers Creek, 4.1 mi south of Short, Oklahoma, 7.5 mi southwest of Uniontown, Arkansas, and at mile 11.0.

DRAINAGE AREA.--420 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1930 to June 1937, October 1950 to current year. Prior to October 1992, published as "07250000 Lee Creek near Van Buren".

REVISED RECORDS.--WSP 1211: 1931(M). WSP 1441: 1935(M)/ WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 429.44 ft above sea level. Prior to October 1992 recording gage 3.2 mi downstream at datum 21.40 ft lower. September 1930 to June 1937, nonrecording gage at former site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORDS.--Flood of Apr. 15, 1945, reached a stage of about 35.0 ft, from floodmarks at former site and datum, discharge about 112,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	263	516	866	1330	2220	179	61	1390	25	4.2	1.7
2	.00	850	422	705	1040	1790	167	54	800	22	3.9	1.4
3	.00	768	347	590	863	1480	158	49	509	20	3.4	.95
4	.00	516	291	524	746	1240	149	44	345	18	2.9	.42
5	.00	532	248	506	639	1020	141	42	236	16	2.5	.15
6	.04	5730	217	578	562	869	133	41	166	15	1.9	.01
7	3.3	3010	192	786	500	767	126	37	127	14	1.6	.00
8	5.7	1700	169	956	450	681	119	34	103	12	1.5	.27
9	5.8	1900	153	885	687	601	112	31	87	11	1.5	4.8
10	5.9	1420	144	750	1140	533	105	29	78	9.8	1.5	5.3
11	5.9	1010	132	831	901	482	110	29	68	8.7	e1.8	4.7
12	6.2	781	118	1170	772	487	121	33	57	8.1	e2.1	4.2
13	6.1	700	155	1100	933	462	183	32	47	7.9	e2.4	3.7
14	5.8	610	174	1030	2380	414	157	30	40	7.6	2.6	2.9
15	6.1	500	181	893	8360	430	205	30	107	7.1	2.2	2.5
16	6.8	412	329	757	10300	530	429	27	154	6.9	2.5	2.2
17	6.0	333	486	693	5380	548	370	24	111	6.9	2.2	1.8
18	5.8	272	521	643	3300	475	288	25	78	6.6	1.8	3.0
19	5.7	226	424	585	2380	427	244	27	58	6.3	1.4	4.3
20	5.6	187	351	506	1830	392	217	31	47	6.1	.86	4.1
21	6.0	159	305	439	1470	358	198	86	65	5.7	.27	4.0
22	7.9	140	259	389	1220	332	175	74	69	5.4	.06	15
23	8.9	479	224	353	1580	307	160	84	55	5.2	.00	25
24	8.8	1620	204	325	10900	286	141	74	50	4.8	.00	21
25	8.1	3970	194	293	6920	256	122	57	45	4.6	.00	17
26	15	2230	378	267	3540	229	108	46	38	4.5	.00	15
27	95	1430	2000	242	3160	209	97	38	33	4.5	.89	13
28	825	1050	2410	221	2980	199	87	36	29	4.7	3.7	11
29	479	803	2010	2290	---	195	79	291	27	4.7	3.9	10
30	310	632	1450	3190	---	204	70	5290	27	4.5	3.0	8.8
31	283	---	1090	1870	---	194	---	3160	---	4.4	2.4	---
TOTAL	2127.44	34233	16094	25233	76263	18617	4950	9946	5046	288.0	58.98	188.20
MEAN	68.6	1141	519	814	2724	601	165	321	168	9.29	1.90	6.27
MAX	825	5730	2410	3190	10900	2220	429	5290	1390	25	4.2	25
MIN	.00	140	118	221	450	194	70	24	27	4.4	.00	.00
AC-FT	4220	67900	31920	50050	151300	36930	9820	19730	10010	571	117	373
CFSM	.16	2.72	1.24	1.94	6.48	1.43	.39	.76	.40	.02	.00	.01
IN.	.19	3.03	1.43	2.23	6.75	1.65	.44	.88	.45	.03	.01	.02

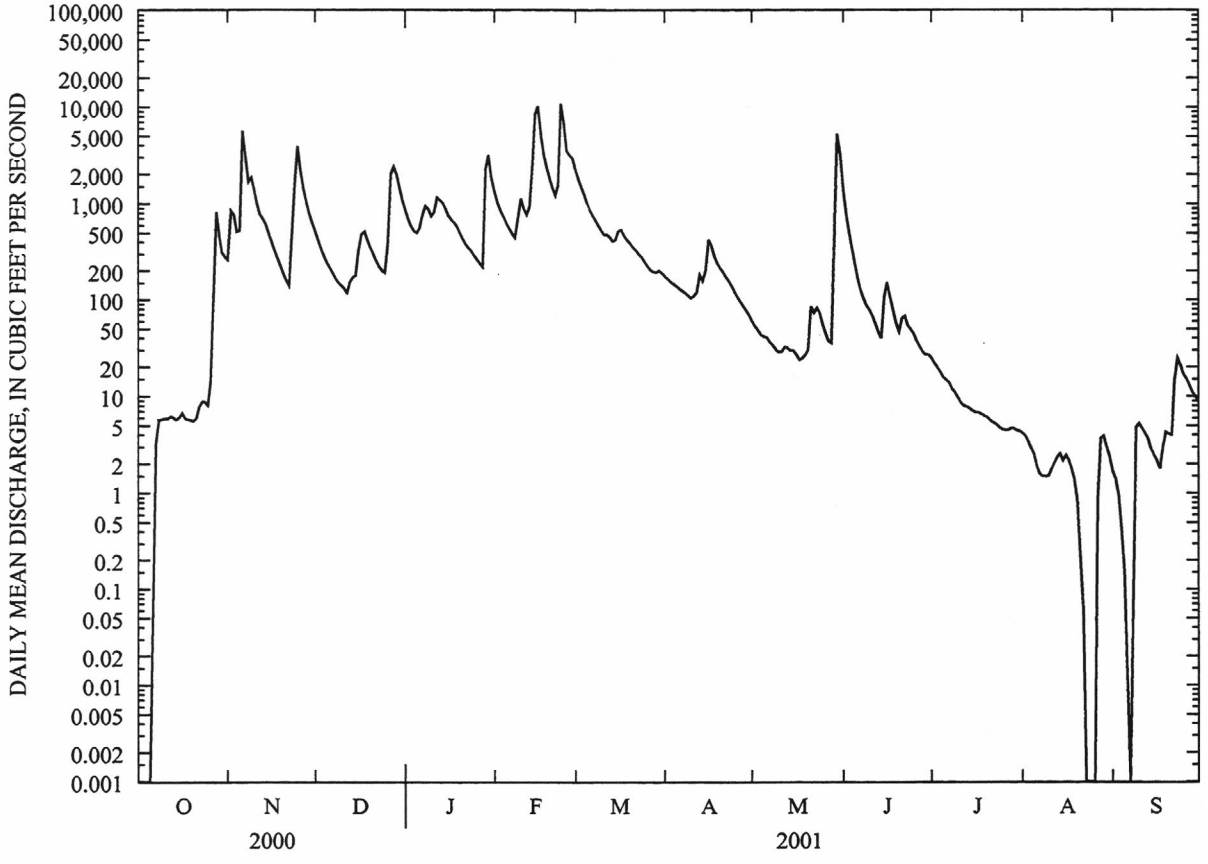
07249985 LEE CREEK NEAR SHORT, OKLAHOMA--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-36, 1951-01, BY WATER YEAR (WY)

MEAN	232	553	560	566	762	1057	1060	930	468	129	45.5	130
MAX	2837	3572	2378	2831	2824	3100	3657	3516	4450	1909	583	1678
(WY)	1971	1974	1988	1998	1989	1973	1957	1957	1935	1958	1958	1974
MIN	.000	.13	1.95	3.31	18.8	25.2	94.6	41.3	7.00	.19	.000	.000
(WY)	1957	1957	1967	1956	1967	1967	1954	1977	1936	1936	1934	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931-36, 1951-01	
ANNUAL TOTAL	218375.68		193044.62			
ANNUAL MEAN	597		529		539	
HIGHEST ANNUAL MEAN					1090	1935
LOWEST ANNUAL MEAN					92.5	1954
HIGHEST DAILY MEAN	41100	Jun 21	10900	Feb 24	41100	Jun 21 2000
LOWEST DAILY MEAN	.00	Aug 27	.00	Oct 1	.00	Sep 8 1932
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 27	.17	Aug 20	.00	Sep 8 1932
MAXIMUM PEAK FLOW			14600	Feb 24	80600	May 6 1960
MAXIMUM PEAK STAGE			11.96	Feb 24	[a]30.30	May 6 1960
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	433100		382900		390800	
ANNUAL RUNOFF (CFSM)	1.42		1.26		1.28	
ANNUAL RUNOFF (INCHES)	19.34		17.10		17.45	
10 PERCENT EXCEEDS	1420		1350		1240	
50 PERCENT EXCEEDS	173		127		134	
90 PERCENT EXCEEDS	.03		2.4		2.3	

[a]At former site and datum
[e]Estimated



07249985 LEE CREEK NEAR SHORT, OKLAHOMA--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1992 to current year.

REMARKS.--Water-quality data for this station for the period October 1995 to September 1997 published under station number 07250085.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT 16...	1000	81213	80513	6.8	730	6.4	71	8.2	97	18.2
JAN 05...	1130	81213	80513	790	754	13.1	97	8.6	65	2.6
MAR 08...	0930	81213	80513	990	752	10.9	97	8.5	63	9.5
MAY 08...	1430	81213	80513	45	756	7.5	93	7.9	93	25.4
JUL 11...	0830	81213	80513	8.5	750	4.5	61	7.3	114	30.5
AUG 22...	0830	81213	80513	.10	751	4.7	61	7.5	94	28.1

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 16...	38	12.0	1.90	1.30	.2	3.3	15	3.9	4.0
JAN 05...	24	7.20	1.40	.80	.2	2.4	17	3.6	4.9
MAR 08...	24	7.60	1.20	.90	.2	2.2	16	2.7	4.8
MAY 08...	36	12.0	1.50	1.00	.2	2.5	13	3.8	5.2
JUL 11...	45	15.0	1.90	1.40	.2	3.2	13	3.8	4.6
AUG 22...	34	10.0	2.10	1.70	.3	3.9	19	4.3	4.0

DATE	SOLIDS, RESIDUE AT 180 DEG C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT 16...	56	<.010	<.20	--	<.020	<.010	--	--
JAN 05...	50	<.010	<.20	--	1.10	<.010	--	--
MAR 08...	39	<.010	.26	--	.720	<.010	--	.98
MAY 08...	57	.030	.74	.04	.120	<.010	.71	.86
JUL 11...	63	.030	.21	.04	.060	<.010	.18	.27
AUG 22...	58	.050	<.20	.06	.040	<.010	--	--

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 16...	<.020	<.010	<.020	22	28	52	1.3	81	22	.41
JAN 05...	<.020	<.010	<.020	E6	E6	E12	<.1	96	17	36
MAR 08...	<.020	<.010	<.020	E3	E10	E20	<.1	91	24	64
MAY 08...	<.020	<.010	<.020	E2	<1	E1	1.4	85	22	2.7
JUL 11...	<.020	<.010	<.020	E4	E8	E18	2.3	92	19	.44
AUG 22...	<.020	<.010	<.020	51	76	55	<.1	87	23	.01

Remark codes used in this report:
< -- Less than
E -- Estimated value

07250085 LEE CREEK AT LEE CREEK RESERVOIR NEAR VAN BUREN

LOCATION.--Lat 35°29'02", long 94°42'33", in SE1/4SW1/4, sec.3, T.9 N., R.32 W., Crawford County, Hydrologic Unit 11110104, in control house at dam on left bank, 2.8 mi northwest of Van Buren, and at mile 3.5.

DRAINAGE AREA.--432 mi².

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Records given herein represent spillway flow and power releases and do not include water diverted for municipal water supply of Fort Smith. Flow regulated by storage in Lee Creek Reservoir, capacity 7,118 acre-ft and power releases. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

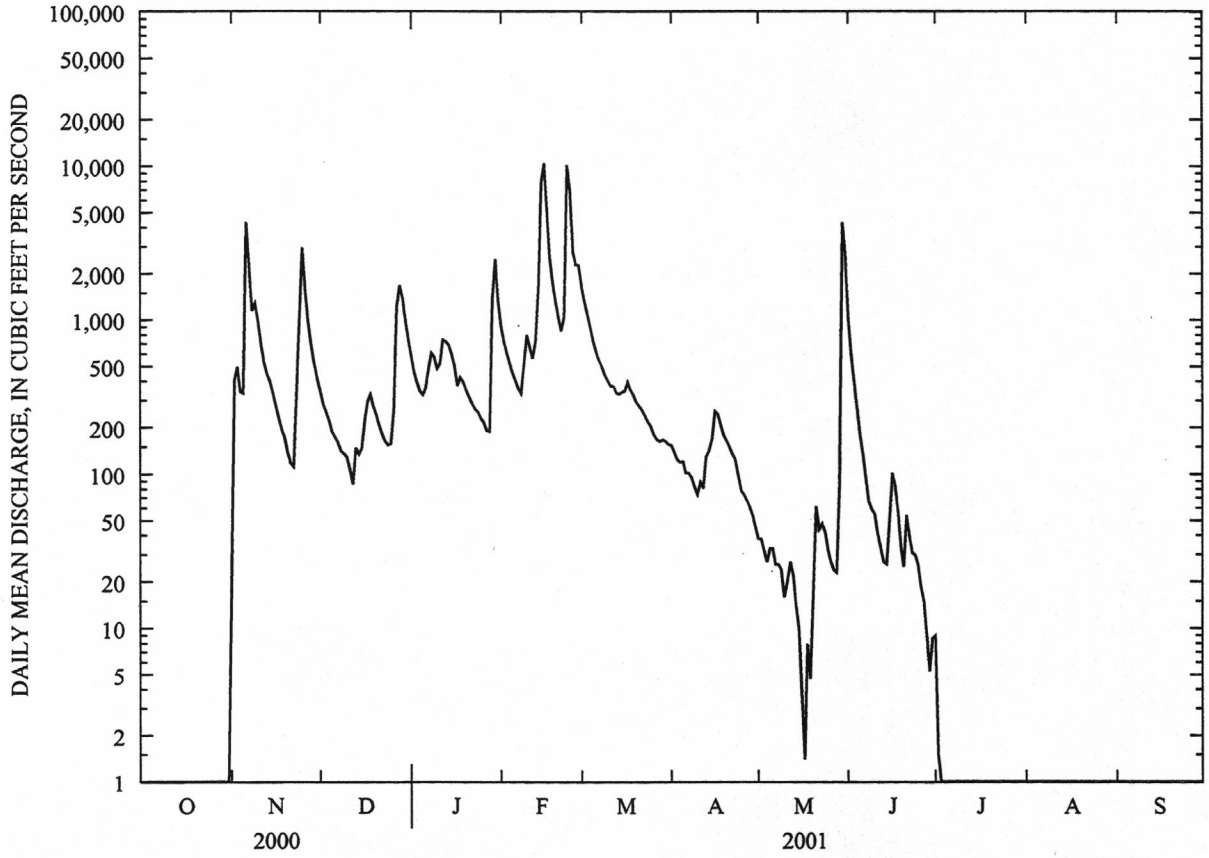
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	9.1	345	582	929	1640	154	38	1060	9.0	.00	.00
2	.00	408	283	462	725	1300	139	38	608	1.5	.00	.00
3	.00	495	252	393	612	1070	125	32	391	.00	.00	.00
4	.00	344	223	346	527	887	120	27	262	.00	.00	.00
5	.00	335	189	327	454	729	121	33	180	.00	.00	.00
6	.00	4340	175	361	409	622	102	33	136	.00	.00	.00
7	.00	2340	161	479	362	550	102	26	94	.00	.00	.00
8	.00	1150	143	612	333	498	95	26	67	.00	.00	.00
9	.00	1290	136	576	497	441	83	24	59	.00	.00	.00
10	.00	996	129	487	799	401	74	16	55	.00	.00	.00
11	.00	686	108	526	672	372	89	20	41	.00	.00	.00
12	.00	526	86	745	566	372	81	27	33	.00	.00	.00
13	.00	447	148	728	721	339	131	22	27	.00	.00	.00
14	.00	398	135	688	1590	331	143	14	26	.00	.00	.00
15	.00	337	148	604	7850	341	170	10	53	.00	.00	.00
16	.00	279	223	506	10500	347	256	4.2	102	.00	.00	.00
17	.00	231	296	374	4890	396	244	1.4	84	.00	.00	.00
18	.00	196	330	426	2550	353	208	7.9	57	.00	.00	.00
19	.00	173	274	398	1760	327	179	4.7	34	.00	.00	.00
20	.00	138	243	355	1320	293	164	23	25	.00	.00	.00
21	.00	118	208	319	1040	275	150	62	54	.00	.00	.00
22	.00	112	182	289	852	260	136	44	40	.00	.00	.00
23	.00	323	164	263	1050	239	124	48	31	.00	.00	.00
24	.00	920	155	252	10200	218	97	42	30	.00	.00	.00
25	.00	2960	158	229	6920	205	78	32	26	.00	.00	.00
26	.00	1610	258	216	2800	181	73	27	19	.00	.00	.00
27	.00	990	1240	192	2290	169	67	24	15	.00	.00	.00
28	.00	706	1700	189	2270	164	61	23	8.6	.00	.00	.00
29	.00	536	1400	1410	---	168	54	91	5.3	.00	.00	.00
30	.00	418	997	2500	---	164	45	4330	8.6	.00	.00	.00
31	.00	---	747	1340	---	157	---	2700	---	.00	.00	---
TOTAL	0.00	23811.1	11236	17174	65488	13809	3665	7850.2	3631.5	10.50	0.00	0.00
MEAN	.000	794	362	554	2339	445	122	253	121	.34	.000	.000
MAX	.00	4340	1700	2500	10500	1640	256	4330	1060	9.0	.00	.00
MIN	.00	9.1	86	189	333	157	45	1.4	5.3	.00	.00	.00
AC-FT	.00	47230	22290	34060	129900	27390	7270	15570	7200	21	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	114	930	654	772	870	905	971	750	604	111	11.8	65.4
MAX	454	3274	1666	2661	2339	1743	2178	1732	2754	481	54.6	307
(WY)	1994	1997	1993	1998	2001	1998	1993	1995	2000	1999	1994	1996
MIN	.000	.000	158	58.3	94.0	199	122	75.6	33.1	.000	.000	.000
(WY)	1993	2000	2000	2000	1996	1996	2001	1997	1998	1998	1993	1995

07250085 LEE CREEK AT LEE CREEK RESERVOIR NEAR VAN BUREN--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL TOTAL	169329.13		146675.30			
ANNUAL MEAN	463		402		560	
HIGHEST ANNUAL MEAN					833	1993
LOWEST ANNUAL MEAN					315	1996
HIGHEST DAILY MEAN	37800	Jun 21	10500	Feb 16	37800	Jun 21 2000
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1992
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 31	.00	Oct 1	.00	Oct 1 1992
MAXIMUM PEAK FLOW			14600	Feb 24	72400	Jun 21 2000
MAXIMUM PEAK STAGE			22.61	Feb 24	26.99	Jun 21 2000
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	335900		290900		405700	
10 PERCENT EXCEEDS	907		924		1260	
50 PERCENT EXCEEDS	118		84		130	
90 PERCENT EXCEEDS	.00		.00		.00	



07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W.,Sebastian County, Hydrologic Unit 11110104, in metal shelter on dam and at mile 308.9.

DRAINAGE AREA.--150,547 mi², of which 22,241 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Prior to October 1969, published as "07250500 Arkansas River at Van Buren", and October 1969 to September 1988, published as "at Dam No. 13", near Van Buren. Gage-height records collected from 1879 to December 1955 at Fort Smith, 16.3 mi upstream, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: 1934-36. WSP 1561: 1554. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage and gate position recorder. Datum of gage is at sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Dec. 20, 1969, recording gage at site 7.9 mi upstream at datum 372.36 ft higher.

REMARKS.--Water-discharge records fair. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated upstream by many locks, dams, and reservoirs. On Oct. 19, 1988, the Arkansas Electric Cooperative Corporation hydroplant began operation, and discharges at the hydroplant are added to flows from the lock and dam. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1833, that of Apr. 16, 1945, and maximum discharge since at least 1833, that of May 12, 1943. Flood in June 1833 reached a stage of 38.0 ft on Fort Smith gage, from records collected by National Weather Service. Flood of Apr. 16, 1927, reached a stage of 35.0 ft, former site and datum, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760	8150	19700	1080	67100	145000	19700	17600	98900	45200	15600	1510
2	5500	5710	20200	6130	66900	140000	22600	16900	79800	38400	12000	49
3	5820	22400	20900	21200	66700	134000	24600	10100	71200	38500	6320	1580
4	12100	6650	28600	21700	66000	135000	28600	12000	67100	42900	6490	90
5	9850	7710	20900	24000	69000	135000	43300	15600	79300	21900	6540	3100
6	6270	42100	17200	19500	59100	135000	48300	6570	82900	10200	12800	6140
7	1900	36200	18400	15600	63800	135000	41400	6910	79700	15600	14100	2080
8	2680	24600	19900	21700	65100	135000	37100	7020	72500	26000	14800	6860
9	10100	36600	10000	27000	57300	135000	24000	9190	52000	18900	14400	8800
10	4850	39600	6290	32600	52900	135000	24000	9110	52900	15700	6970	1590
11	1860	42500	14200	32600	56900	135000	26800	7420	56900	23400	7200	1190
12	1320	48000	14600	36600	65000	136000	21300	20800	57800	18200	8610	4010
13	1360	48800	7470	42400	62400	134000	9700	4470	54800	9380	7160	4350
14	2170	31700	15700	36200	45500	120000	20000	15400	54000	11300	5780	6940
15	2110	20100	12200	30400	79300	118000	24400	12900	58500	11500	2630	2840
16	3490	13200	11600	32100	117000	117000	19400	15100	68700	8850	4690	55
17	3300	38200	17000	32300	111000	99000	27600	17400	47200	11800	487	4940
18	2030	12800	14300	31900	92500	85200	31900	24600	40000	13100	4110	8180
19	4670	11400	16900	30500	85900	90000	29200	38300	51600	16000	446	20100
20	2910	14800	13800	23400	77200	85200	26000	46900	55800	17200	6490	7100
21	3950	15100	15500	13100	68800	85000	28100	74500	53800	18800	6620	11900
22	3330	12500	13500	22800	81000	84000	17900	65200	48400	13100	13400	5730
23	5650	9620	16100	19500	81100	80900	14000	45000	48400	9650	14500	5400
24	10900	24900	7960	25300	119000	72300	16000	41500	56400	19400	8610	8050
25	4460	49500	8020	28500	157000	68500	20500	33100	56100	9010	2710	8750
26	3070	25400	13500	12800	109000	60200	15700	15800	54300	867	4290	13900
27	8940	20800	8610	12000	91600	53800	26600	17800	48500	1990	1690	14100
28	4540	25500	1070	4050	123000	51600	20200	13800	37700	7010	5260	9820
29	8070	34400	3650	50300	---	44700	12000	35600	43200	6450	8030	3890
30	6780	29700	1240	98000	---	37700	14400	103000	51800	13700	2930	5350
31	8910	---	5250	93900	---	25800	---	157000	---	16800	46	---
TOTAL	154650	758640	414260	899160	2257100	3147900	735300	916590	1780200	530807	225709	178394
MEAN	4989	25290	13360	29010	80610	101500	24510	29570	59340	17120	7281	5946
MAX	12100	49500	28600	98000	157000	145000	48300	157000	98900	45200	15600	20100
MIN	1320	5710	1070	1080	45500	25800	9700	4470	37700	867	46	49
AC-FT	306700	1505000	821700	1783000	4477000	6244000	1458000	1818000	3531000	1053000	447700	353800

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	26710	38690	37560	33860	35450	60260	60570	66040	61550	32480	16450	15360
MAX	224500	161200	139700	127000	87650	147200	164300	187500	191500	104800	62670	54130
(WY)	1987	1975	1993	1998	1993	1987	1973	1990	1995	1999	1992	1989
MIN	1446	1329	3187	696	2656	5658	2910	12160	4688	4457	4378	3341
(WY)	1981	1981	1981	1981	1981	1981	1981	1971	1988	1988	1991	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	11354954		11998710			
ANNUAL MEAN	31020		32870		[a]40410	
HIGHEST ANNUAL MEAN					87670	1993
LOWEST ANNUAL MEAN					7737	1981
HIGHEST DAILY MEAN	165000	Jun 22	157000	Feb 25	397000	May 5 1990
LOWEST DAILY MEAN	1070	Dec 28	46	Aug 31	[b].00	[c]Nov 2 1975
ANNUAL SEVEN-DAY MINIMUM	2230	Oct 11	1330	Aug 30	364	Jan 14 1981
INSTANTANEOUS PEAK FLOW			164000	Feb 25	[d]401000	May 5 1990
INSTANTANEOUS PEAK STAGE			390.94	Feb 25	[e]401.75	May 5 1990
ANNUAL RUNOFF (AC-FT)	22520000		23800000		29280000	
10 PERCENT EXCEEDS	73800		83300		111000	
50 PERCENT EXCEEDS	19800		18900		23900	
90 PERCENT EXCEEDS	5200		3590		3480	

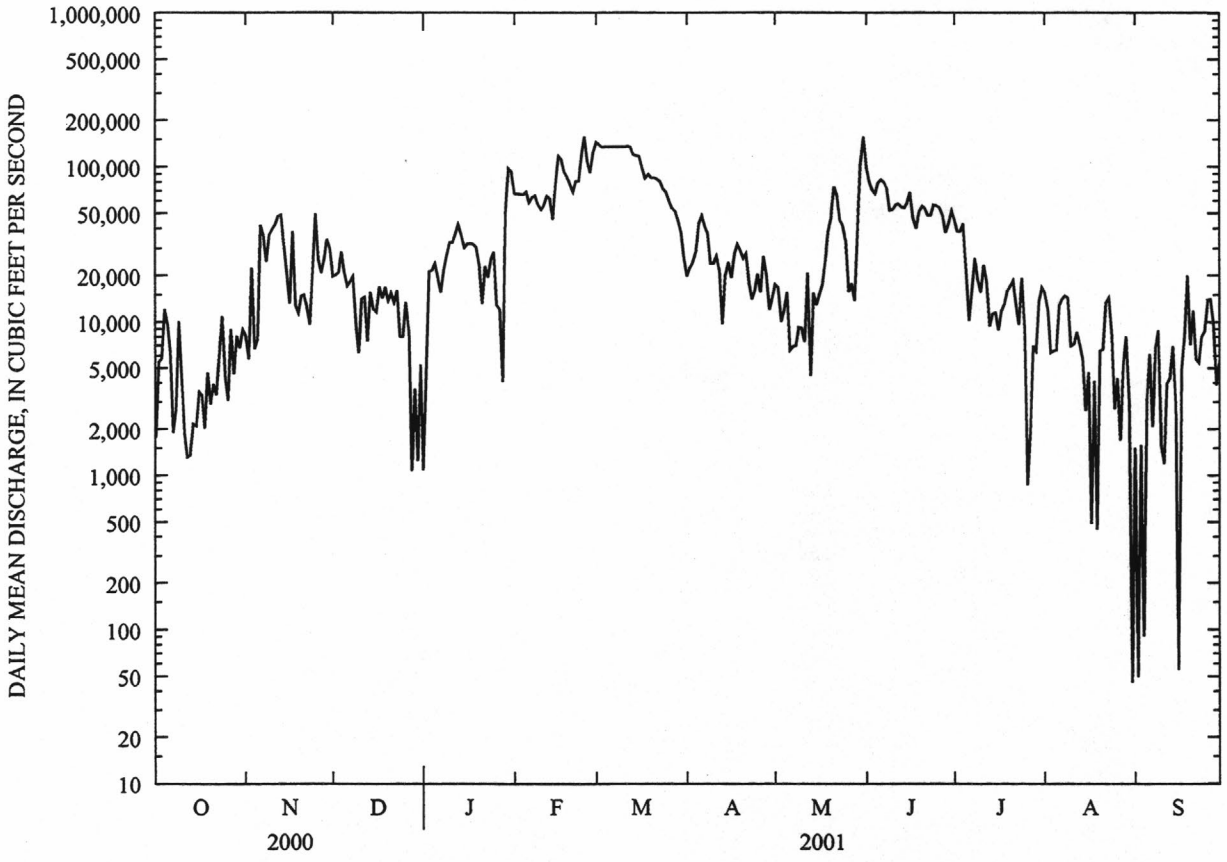
[a]Prior to regulation, water years 1928-69, 30,200 ft^3/s

[b]Also minimum daily discharge for period of record

[c]Also Feb. 1, 1981; Oct. 17, 1987; Dec. 9, 1989; Nov. 11-12, 1993; and Jan. 9, 13, 1994

[d]Maximum discharge for period of record, 850,000 ft^3/s, May 12, 1943

[e]Maximum gage height for period of record, 38.10 ft, Apr. 16, 1945, at former site and datum



07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1927 to current year. Prior to October 1969, published as "07250500 Arkansas River at Van Buren", and October 1969 to September 1988, published as "at Dam No. 13", near Van Buren.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT 16...	1330	81213	80513	1400	750	6.1	72	8.0	636	22.1	160
JAN 10...	1330	81213	80513	34200	756	14.6	108	8.2	645	2.4	130
MAR 21...	1030	81213	80513	85100	757	12.1	108	7.9	509	9.9	120
MAY 09...	1400	81213	80513	7340	754	7.9	95	7.8	682	23.7	160
JUL 11...	1130	81213	80513	12000	750	7.7	105	7.6	543	30.6	130
AUG 22...	1130	81213	80513	6180	753	6.6	90	8.4	801	30.3	170

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT 16...	46.0	12.0	4.10	2	66.0	46	99.0	70.0	388	.060
JAN 10...	34.0	10.0	3.40	3	80.0	57	120	60.0	402	.010
MAR 21...	35.0	7.80	2.90	2	42.0	43	67.0	52.0	292	.026
MAY 09...	45.0	11.0	3.30	3	77.0	51	110	75.0	413	.062
JUL 11...	38.0	9.30	3.70	2	51.0	45	72.0	54.0	295	<.010
AUG 22...	44.0	140.0	4.40	3	89.0	53	130	73.0	434	.020

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT 16...	1.0	.08	--	--	.150	--	<.010	.94	1.1	.184
JAN 10...	.61	.01	--	--	.710	--	<.010	.60	1.3	.123
MAR 21...	.69	.03	.880	3.90	.900	.066	.020	.66	1.6	.061
MAY 09...	.69	.08	--	--	.480	--	<.010	.63	1.2	.061
JUL 11...	.60	--	.220	.974	.240	.066	.020	--	.84	--
AUG 22...	.50	.03	--	--	<.020	--	<.010	.48	--	.123

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 16...	.090	.060	.080	56	110	60	5.0	69	104	393
JAN 10...	.050	.040	.090	E13	20	48	<.1	98	136	12600
MAR 21...	.040	.020	.100	39	59	E11	14.0	86	111	25500
MAY 09...	.030	.020	.070	E5	E7	E17	3.6	90	106	2100
JUL 11...	.020	<.010	.060	22	54	E15	22.0	97	104	3370
AUG 22...	.030	.040	.080	8	E12	28	28.0	99	110	1840

Remark codes used in this report:
< -- Less than
E -- Estimated value

07250935 JONES CREEK AT WINFREY

LOCATION.--Lat 35°44'10", long 94°06'10", in SE1/4SW1/4 sec.5, T.12 N., R.29 W., Crawford County, Hydrologic Unit 11110201, near left bank in pasture 300 ft upstream of bridge on Winfrey Valley Cutoff, 3 mi northeast of junctions of U.S. Highway 71 and Winfrey Valley Cutoff, and 10.6 mi northeast of Mountainburg.

DRAINAGE AREA.--19.8 mi^2.

PERIOD OF RECORD.--September 2000 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor.

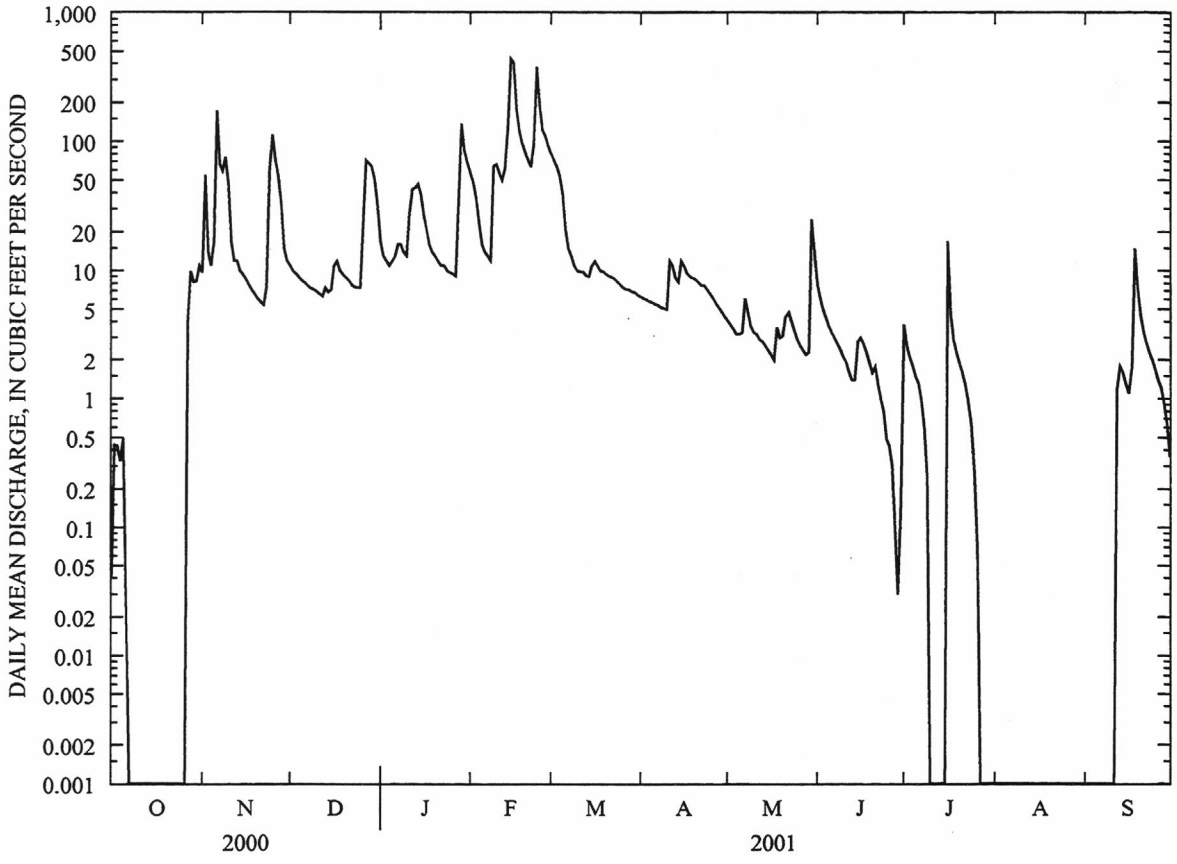
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.04	e9.7	11	17	57	81	6.3	4.1	7.9	3.8	.00	.00
2	e.44	e55	10	13	48	72	6.1	3.8	6.2	2.6	.00	.00
3	e.43	e14	9.5	12	36	64	6.0	3.5	5.0	2.1	.00	.00
4	e.33	e11	8.9	11	23	54	5.8	3.2	4.3	1.8	.00	.00
5	e.50	e17	8.4	12	16	39	5.7	3.2	3.7	1.5	.00	.00
6	e.01	e174	8.1	13	14	21	5.5	3.3	3.3	1.3	.00	.00
7	e.00	e67	7.7	16	13	15	5.4	6.1	3.0	.96	.00	.00
8	e.00	e59	7.3	16	12	13	5.2	4.7	2.7	.60	.00	.00
9	e.00	e76	7.1	14	65	11	5.1	3.7	2.4	.25	.00	.00
10	e.00	e47	6.9	13	67	10	5.0	3.3	2.1	.00	.00	.00
11	e.00	e17	6.6	28	57	9.9	12	3.2	1.9	.00	.00	.00
12	e.00	e12	6.3	43	50	9.8	11	2.9	1.6	.00	.00	1.2
13	e.00	e12	7.4	44	62	9.2	8.8	2.8	1.4	.00	.00	1.8
14	e.00	e10	6.8	47	130	9.0	8.2	2.6	1.4	.00	.00	1.6
15	e.00	e9.3	7.1	39	440	11	12	2.4	2.8	.00	.00	1.3
16	e.00	e8.6	11	27	408	12	11	2.2	3.0	17	.00	1.1
17	e.00	e7.8	12	21	182	11	9.6	2.0	2.7	4.6	.00	1.8
18	e.00	e7.1	10	16	123	10	9.1	3.6	2.3	2.9	.00	15
19	e.00	e6.6	9.3	14	98	9.8	8.8	3.0	1.9	2.3	.00	7.4
20	e.00	e6.1	8.8	13	82	9.4	8.6	3.1	1.6	1.9	.00	4.5
21	e.00	e5.7	8.4	12	72	9.1	8.2	4.4	1.8	1.6	.00	3.3
22	e.00	5.4	7.8	11	64	8.9	7.7	4.8	1.3	1.3	.00	2.7
23	e.00	7.5	7.5	11	99	8.6	7.7	4.0	1.0	.97	.00	2.3
24	e.00	59	7.4	10	379	8.2	7.1	3.4	.80	.63	.00	2.0
25	e.00	113	7.4	9.7	191	7.7	6.6	2.9	.49	.26	.00	1.7
26	e.00	72	27	9.5	122	7.4	6.1	2.6	.43	.07	.00	1.4
27	e4.0	54	72	e9.1	110	7.2	5.6	2.4	.30	.00	.00	1.2
28	e9.9	33	68	e27	93	7.1	5.2	2.2	.10	.00	.00	.91
29	e8.2	15	64	e138	---	6.9	4.8	2.3	.03	.00	.00	.64
30	e8.3	12	51	e85	---	6.8	4.4	25	.13	.00	.00	.36
31	e11	---	32	69	---	6.5	---	14	---	.00	.00	---
TOTAL	43.15	1002.8	522.7	820.3	3113	565.5	218.6	134.7	67.58	48.44	0.00	52.21
MEAN	1.39	33.4	16.9	26.5	111	18.2	7.29	4.35	2.25	1.56	.000	1.74
MAX	11	174	72	138	440	81	12	25	7.9	17	.00	15
MIN	.00	5.4	6.3	9.1	12	6.5	4.4	2.0	.03	.00	.00	.00
AC-FT	86	1990	1040	1630	6170	1120	434	267	134	96	.00	104
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001, BY WATER YEAR (WY)												
MEAN	1.39	33.4	16.9	26.5	111	18.2	7.29	4.35	2.25	1.56	.000	1.74
MAX	1.39	33.4	16.9	26.5	111	18.2	7.29	4.35	2.25	1.56	.000	1.74
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	1.39	33.4	16.9	26.5	111	18.2	7.29	4.35	2.25	1.56	.000	1.74
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

07250935 JONES CREEK AT WINFREY--CONTINUED

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
ANNUAL MEAN	18.1	
HIGHEST DAILY MEAN	440	Feb 15
LOWEST DAILY MEAN	.00	Oct 7
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 7
MAXIMUM PEAK FLOW	784	Feb 15
MAXIMUM PEAK STAGE	3.87	Feb 15
INSTANTANEOUS LOW FLOW	.00	at times
10 PERCENT EXCEEDS	56	
50 PERCENT EXCEEDS	5.7	
90 PERCENT EXCEEDS	.00	

[e]Estimated



07252000 MULBERRY RIVER NEAR MULBERRY

LOCATION.--Lat 35°34'38", long 94°00'56", in SE1/4SW1/4 sec.31, T.11 N., R.28 W., Franklin County, Hydrologic Unit 11110201, on left bank 0.6 mi upstream from Mill Creek, 5.7 mi north of Mulberry, and at mile 11.3.

DRAINAGE AREA.--373 mi^2.

PERIOD OF RECORD.--May 1938 to September 1994, October 1998 to current year. Annual maximum, water years 1995-98.

REVISED RECORDS.--WSP 1007: 1943. WSP 1211: 1941-42. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 432.75 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Apr. 19, 1940, nonrecording gage at site 500 ft downstream at present datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1927 reached a stage of 22.0 ft, discharge, about 59,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	96	516	613	1190	1570	293	184	382	19	4.2	1.8
2	1.8	229	461	e561	993	1350	271	168	297	17	3.5	1.7
3	1.7	321	409	e472	853	1180	260	153	247	17	3.1	1.5
4	1.6	204	377	444	759	1050	252	140	214	16	2.6	1.4
5	1.6	189	348	434	677	915	242	132	184	14	2.3	1.3
6	2.3	5400	324	434	612	812	261	130	157	14	1.9	1.3
7	1.7	2260	304	449	563	719	225	144	134	13	1.8	1.2
8	1.4	1190	286	455	522	631	216	368	116	11	1.8	3.8
9	1.2	1240	266	427	635	580	207	261	99	9.9	1.8	14
10	1.0	933	257	421	1050	538	198	213	85	8.2	1.6	26
11	.87	702	e240	438	863	501	208	184	74	6.9	1.4	71
12	.80	578	e226	533	783	489	644	177	64	5.8	1.4	49
13	.77	534	257	581	783	440	572	186	55	4.6	2.6	37
14	.74	478	266	695	2230	365	501	163	50	4.8	3.1	30
15	.78	421	262	771	10800	453	554	143	56	5.2	32	25
16	.84	382	e297	760	9720	710	704	123	49	38	31	21
17	.80	345	e437	731	4460	690	610	110	47	24	25	19
18	.82	310	e439	733	3390	697	553	102	41	19	21	20
19	.77	285	e411	701	2420	676	517	93	37	15	17	23
20	.73	264	e382	652	1870	628	489	94	35	13	14	27
21	.80	248	e367	602	1490	580	455	128	37	12	12	42
22	.86	232	e343	565	1240	538	412	221	e39	9.9	9.9	35
23	.81	254	e322	527	1080	498	401	213	e35	8.7	8.3	30
24	.78	461	e305	491	2130	456	407	177	e32	7.3	6.8	25
25	.82	1720	296	463	4170	414	347	149	e28	7.1	5.4	22
26	1.1	1380	e318	433	2550	380	304	129	e25	6.4	5.2	21
27	9.0	1020	e459	415	2120	353	273	113	22	6.4	4.2	24
28	19	810	715	396	1900	335	248	101	21	12	3.3	21
29	25	682	e807	902	---	338	225	92	21	11	2.7	18
30	36	578	e766	2210	---	337	203	126	20	8.2	2.1	15
31	69	---	684	1550	---	314	---	337	---	5.7	2.0	---
TOTAL	187.19	23746	12147	19859	61853	19537	11052	5054	2703	370.1	235.0	629.0
MEAN	6.04	792	392	641	2209	630	368	163	90.1	11.9	7.58	21.0
MAX	69	5400	807	2210	10800	1570	704	368	382	38	32	71
MIN	.73	96	226	396	522	314	198	92	20	4.6	1.4	1.2
AC-FT	371	47100	24090	39390	122700	38750	21920	10020	5360	734	466	1250
CFSM	.02	2.12	1.05	1.72	5.92	1.69	.99	.44	.24	.03	.02	.06
IN.	.02	2.37	1.21	1.98	6.17	1.95	1.10	.50	.27	.04	.02	.06

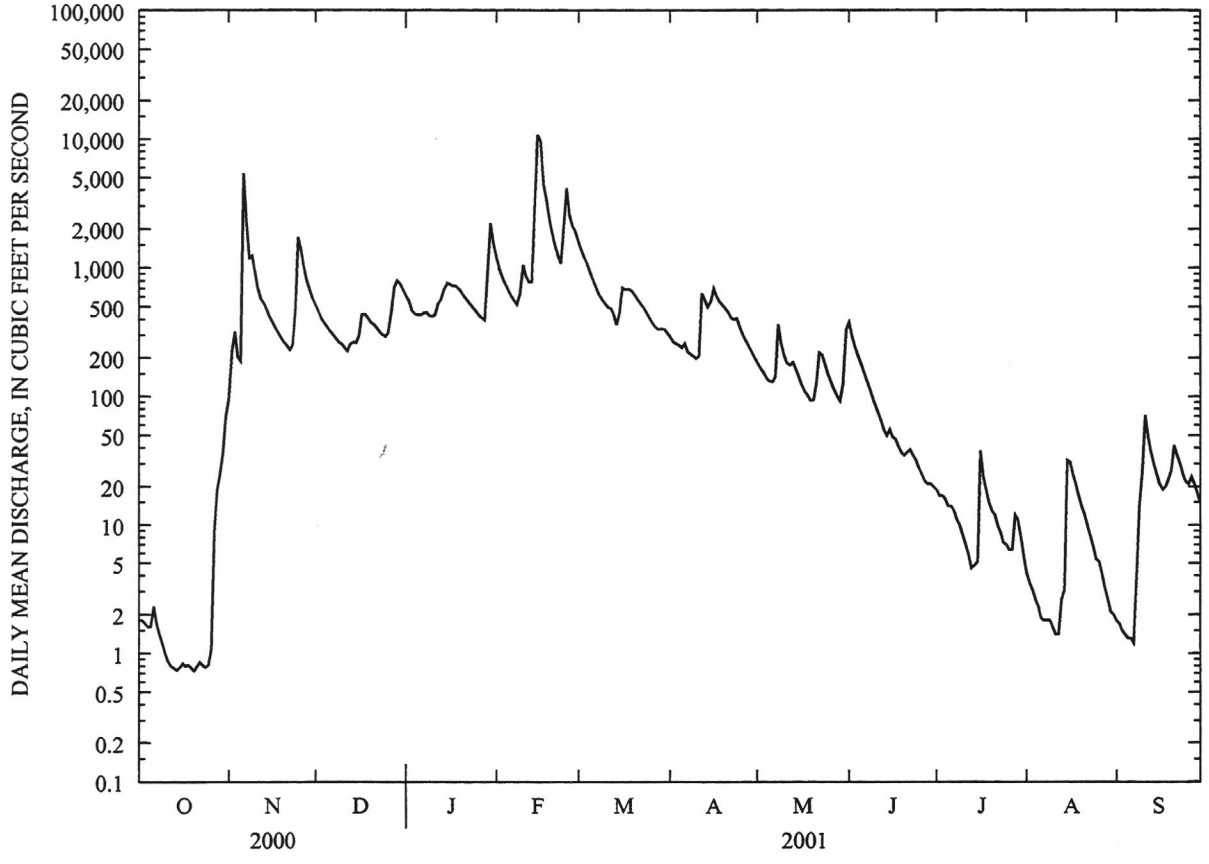
07252000 MULBERRY RIVER NEAR MULBERRY--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-94, 1999-01, BY WATER YEAR (WY)

MEAN	169	549	649	625	892	1062	1099	970	416	115	63.7	81.8
MAX	1566	2280	2997	3083	2873	4124	3576	4233	2592	908	952	1497
(WY)	1985	1974	1983	1949	1951	1945	1945	1990	2000	1950	1950	1974
MIN	.000	.033	2.45	5.34	47.0	75.7	263	88.7	9.68	2.72	.061	.000
(WY)	1954	1954	1990	1964	1967	1967	1971	1977	1977	1963	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939-94, 1999-01	
ANNUAL TOTAL	179938.38		157372.29			
ANNUAL MEAN	492		431		553	
HIGHEST ANNUAL MEAN					1226	1945
LOWEST ANNUAL MEAN					185	1954
HIGHEST DAILY MEAN	19800	Jun 21	10800	Feb 15	40900	May 3 1990
LOWEST DAILY MEAN	.36	Sep 22	.73	Oct 20	.00	Sep 24 1939
ANNUAL SEVEN-DAY MINIMUM	.63	Sep 16	.78	Oct 14	.00	Aug 25 1943
MAXIMUM PEAK FLOW			15500	Feb 15	[a]70200	Dec 3 1982
MAXIMUM PEAK STAGE			11.84	Feb 15	23.66	Dec 3 1982
INSTANTANEOUS LOW FLOW			.65	Oct 15	.00	at times
ANNUAL RUNOFF (AC-FT)	356900		312100		400600	
ANNUAL RUNOFF (CFSM)	1.32		1.16		1.48	
ANNUAL RUNOFF (INCHES)	17.95		15.70		20.14	
10 PERCENT EXCEEDS	689		828		1330	
50 PERCENT EXCEEDS	233		213		184	
90 PERCENT EXCEEDS	1.5		1.8		3.6	

[a]From rating curve extended above 38,000 ft^3/s
[e]Estimated



07257006 BIG PINEY CREEK AT HWY 164 NEAR DOVER

LOCATION.--Lat 35°30'21", long 93°10'53", in SE1/4NW1/4 sec.25, T.10 N., R.21 W., Pope County, Hydrologic Unit 11110202, on right bank 11.9 mi downstream from Indian Creek, 7.2 mi north of Dover, and at mile 23.3.

DRAINAGE AREA.--297 mi^2.

PERIOD OF RECORD.--October 1950 to September 1995, October 1998 to current year. Annual maximum, water years 1996-1998. Prior to October 1967, published as "Piney Creek near Dover". Prior to October 1992, published as "07257000 Big 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 439.75 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	75	199	182	964	1210	262	105	402	35	22	4.0
2	.12	66	170	167	765	1050	248	94	289	27	17	3.3
3	.11	125	146	149	629	903	242	86	221	22	14	2.8
4	.11	118	129	137	543	e853	232	78	173	18	11	2.7
5	.14	96	114	132	456	e718	219	73	138	16	9.1	2.7
6	.42	3150	104	134	396	e618	207	70	113	15	7.8	2.0
7	.19	1400	96	156	351	e537	198	122	96	13	6.8	1.6
8	.19	630	89	227	312	e451	191	188	83	12	5.8	2.2
9	.18	429	83	280	388	406	181	145	71	11	10	5.2
10	.18	324	79	272	766	359	172	115	61	9.2	19	42
11	.18	235	74	282	619	330	213	103	53	7.6	98	82
12	.18	183	71	410	554	345	387	110	47	6.6	88	50
13	.17	177	89	493	823	315	351	94	42	16	60	35
14	.16	183	99	679	2370	290	317	81	38	11	53	26
15	.16	160	98	736	8780	735	420	70	45	10	40	20
16	.24	140	110	628	15300	970	498	62	177	10	31	16
17	.18	123	172	588	5040	810	433	55	105	8.7	24	14
18	.17	104	206	567	2650	696	385	49	73	7.6	19	15
19	.19	91	183	522	1840	618	357	44	56	8.1	16	21
20	.17	81	160	461	1400	546	333	42	45	11	13	16
21	.18	72	147	399	1110	480	306	224	41	10	11	17
22	.20	66	136	355	925	426	270	325	40	8.5	9.5	13
23	.18	68	116	320	767	383	273	220	36	7.4	7.9	11
24	.17	95	109	294	1750	340	272	160	35	6.3	6.8	9.4
25	.16	1080	102	267	4290	299	222	125	31	5.5	5.9	9.3
26	.18	862	113	242	2090	268	190	102	27	5.9	5.2	7.8
27	.36	546	146	226	1670	245	168	86	23	10	4.8	6.8
28	.48	394	200	206	1460	234	149	74	22	15	6.7	6.2
29	.53	303	233	1120	---	270	132	66	24	30	7.8	5.6
30	1.2	238	235	2100	---	302	116	108	37	26	5.8	5.3
31	.97	---	209	1300	---	286	---	511	---	24	4.8	---
TOTAL	8.18	11614	4217	14031	59008	16293	7944	3787	2644	423.4	640.7	454.9
MEAN	.26	387	136	453	2107	526	265	122	88.1	13.7	20.7	15.2
MAX	1.2	3150	235	2100	15300	1210	498	511	402	35	98	82
MIN	.11	66	71	132	312	234	116	42	22	5.5	4.8	1.6
AC-FT	16	23040	8360	27830	117000	32320	15760	7510	5240	840	1270	902

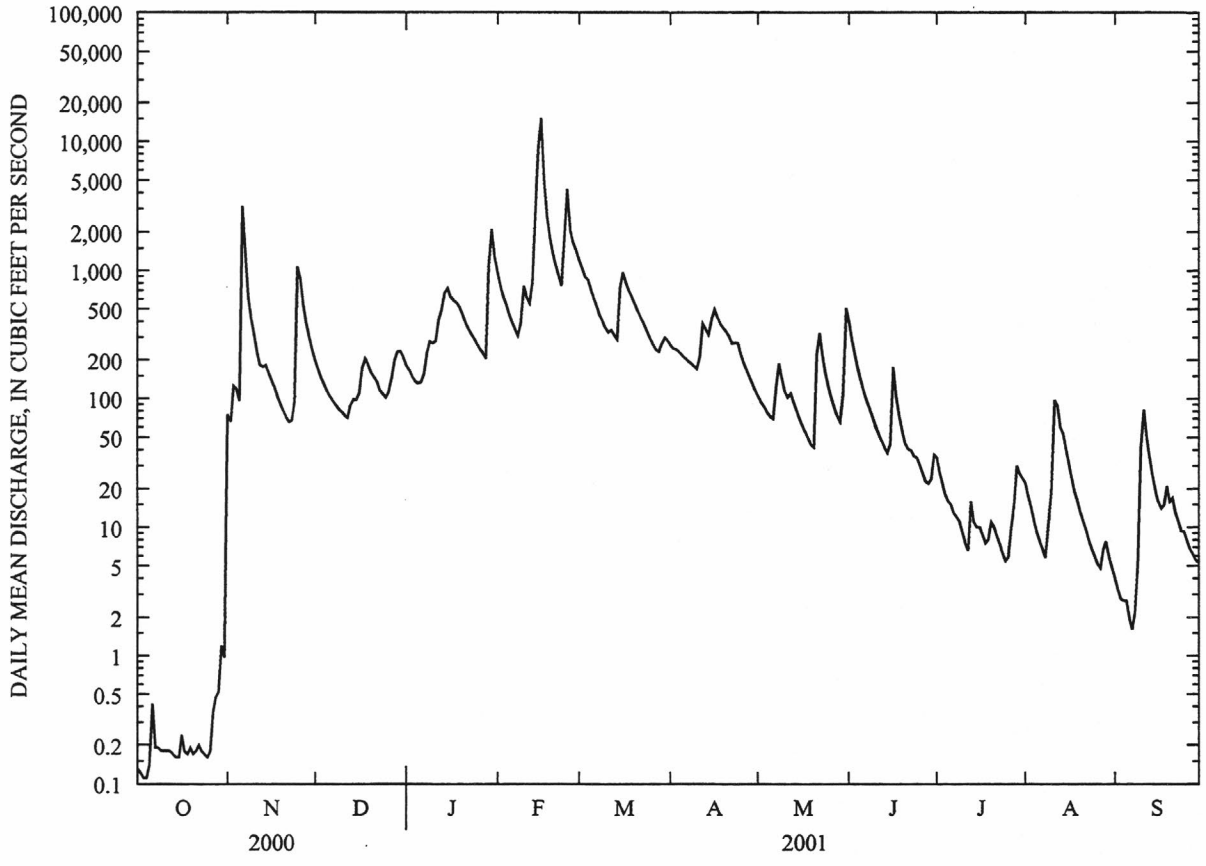
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-95, 1999-01, BY WATER YEAR (WY)

MEAN	127	424	540	449	643	823	847	683	282	70.5	37.3	46.4
MAX	1467	2419	3325	1663	2107	2158	2937	2528	1836	342	413	499
(WY)	1985	1995	1983	1993	2001	1973	1957	1990	2000	1961	1958	1970
MIN	.000	.000	5.86	7.03	47.9	125	120	67.1	14.0	.76	.000	.000
(WY)	1954	1954	1990	1964	1963	1967	1963	1988	1977	1985	1980	1954

07257006 BIG PINEY CREEK AT HWY 164 NEAR DOVER--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951-95, 1999-01	
ANNUAL TOTAL	125963.50		121065.18			
ANNUAL MEAN	344		332		416	
HIGHEST ANNUAL MEAN					823	1973
LOWEST ANNUAL MEAN					141	1963
HIGHEST DAILY MEAN	21000	Jun 17	15300	Feb 16	43500	Dec 3 1982
LOWEST DAILY MEAN	.00	Sep 20	.11	Oct 3	.00	Oct 2 1952
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 17	.17	Oct 9	.00	Sep 12 1953
MAXIMUM PEAK FLOW			21600	Feb 16	[a]111000	Dec 3 1982
MAXIMUM PEAK STAGE			13.13	Feb 16	[b]33.87	Dec 3 1982
INSTANTANEOUS LOW FLOW			.10	Oct 4,5	.00	at times
ANNUAL RUNOFF (AC-FT)	249800		240100		301100	
10 PERCENT EXCEEDS	608		686		981	
50 PERCENT EXCEEDS	116		104		127	
90 PERCENT EXCEEDS	.15		2.8		2.8	

[a]From rating curve extended above 45,000 ft^3/s on basis of contracted-opening measurement of peak flow
[b]At site and datum then in use
[e]Estimated



07257500 ILLINOIS BAYOU NEAR SCOTTSVILLE

LOCATION.--Lat 35°27'58", long 93°02'28", in SE1/4SW1/4 sec.31, T.10 N., R.19 W., Pope County, Hydrologic Unit 11110202, on downstream side of bridge on State Highway 164, 1.3 mi north of Scottsville, and 3.1 mi downstream from North Fork Illinois Bayou.

DRAINAGE AREA.--242 mi^2.

PERIOD OF RECORD.--October 1947 to September 1970, October 1999 to current year. Annual maximum water years 1971-99.

GAGE.--Water-stage recorder. Datum of gage is 447.54 ft above sea level. Prior to Mar. 25, 1948, non-recording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 10, 1943, reached a stage of 24.6 ft, from floodmark set by local residents (discharge, 77,000 ft^3/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.09	122	124	578	835	246	97	234	7.3	49	1.2
2	.01	.10	104	107	466	719	234	86	182	6.6	27	1.2
3	.00	.10	91	97	394	630	228	75	141	6.9	19	1.1
4	.00	.11	78	91	348	722	217	67	113	6.4	15	.98
5	.00	.11	68	84	302	620	205	62	92	5.9	12	.93
6	.04	504	60	77	268	543	193	57	73	5.7	11	.87
7	.06	333	55	85	242	492	188	121	60	5.3	9.0	.79
8	.05	177	49	128	227	446	178	203	49	4.8	7.4	.90
9	.05	239	43	170	465	398	166	141	39	4.1	6.1	4.1
10	.04	170	40	164	759	354	156	108	31	3.7	12	3.3
11	.04	121	37	173	588	324	167	93	26	3.3	89	2.4
12	.04	101	32	237	506	355	354	91	22	2.9	18	2.0
13	.03	114	50	278	1040	321	301	77	19	12	14	1.6
14	.03	156	54	428	2970	286	275	62	18	9.1	11	1.4
15	.03	130	55	445	7980	417	375	51	23	6.3	9.4	1.2
16	.04	108	72	370	12800	504	427	42	22	5.4	8.4	1.2
17	.05	90	99	378	4090	455	370	36	21	5.2	7.1	1.1
18	.06	73	138	400	2040	417	333	30	18	4.5	6.4	1.1
19	.06	62	127	376	1380	389	309	26	16	3.7	5.5	3.1
20	.05	51	116	330	1020	360	283	24	14	3.2	4.8	3.5
21	.05	42	102	289	798	328	257	64	14	2.8	4.5	3.0
22	.06	37	94	257	669	300	225	174	15	2.4	4.0	2.5
23	.06	40	85	232	568	272	235	130	14	2.2	3.4	2.3
24	.08	70	75	212	836	245	277	98	12	2.0	3.0	2.8
25	.09	639	67	191	2070	219	217	76	10	2.0	2.6	2.2
26	.09	446	79	175	1170	197	186	60	9.2	2.6	2.3	2.0
27	.08	299	106	161	1090	180	163	48	8.3	3.6	2.0	1.8
28	.07	224	130	147	998	172	145	39	8.6	31	1.8	1.7
29	.06	177	143	887	---	206	128	33	8.3	46	e1.6	1.6
30	.09	143	140	1360	---	270	111	59	8.1	59	e1.3	1.4
31	.10	---	135	793	---	265	---	254	---	90	1.2	---
TOTAL	1.53	4546.51	2646	9246	46662	12241	7149	2584	1320.5	355.9	368.8	55.27
MEAN	.049	152	85.4	298	1666	395	238	83.4	44.0	11.5	11.9	1.84
MAX	.10	639	143	1360	12800	835	427	254	234	90	89	4.1
MIN	.00	.09	32	77	227	172	111	24	8.1	2.0	1.2	.79
AC-FT	3.0	9020	5250	18340	92550	24280	14180	5130	2620	706	732	110
CFSM	.00	.63	.35	1.24	6.91	1.64	.99	.35	.18	.05	.05	.01
IN.	.00	.70	.41	1.43	7.20	1.89	1.10	.40	.20	.05	.06	.01

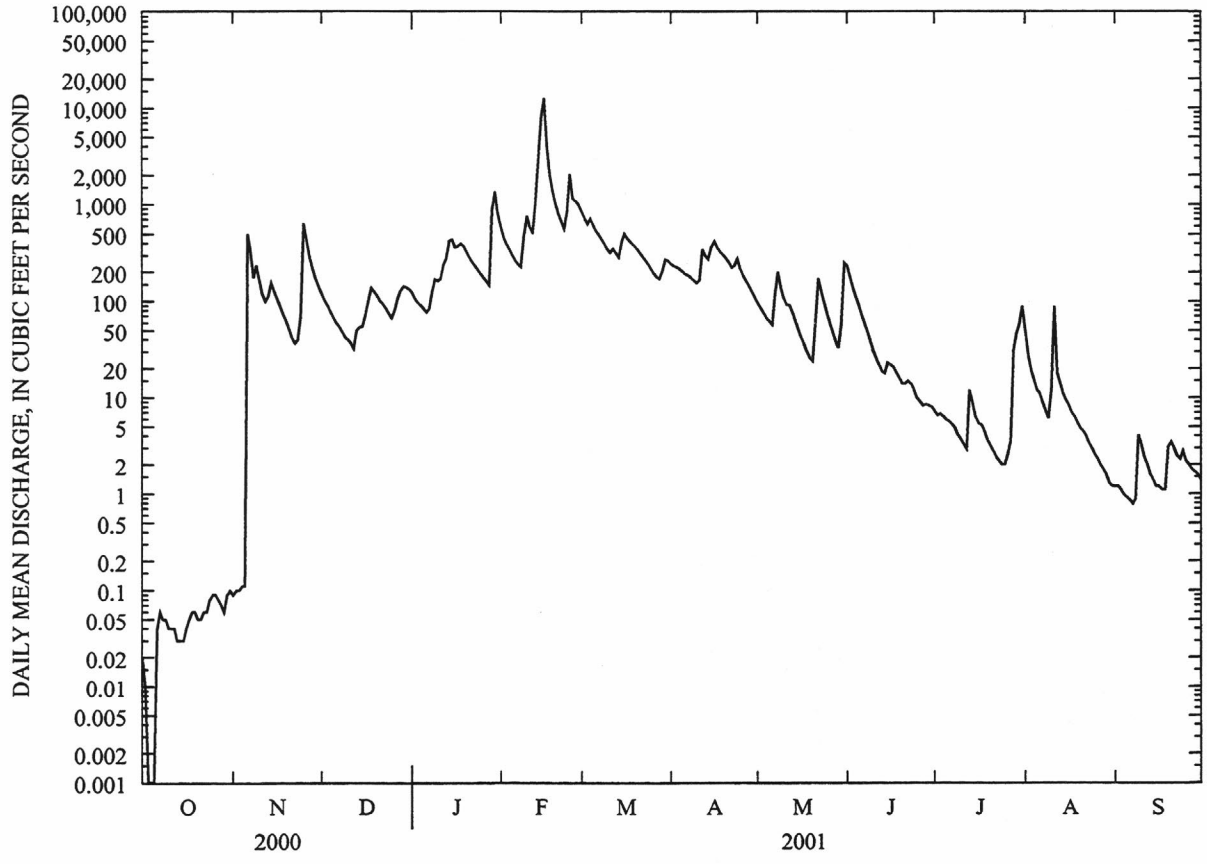
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948-70, 2000-01, BY WATER YEAR (WY)

MEAN	82.9	223	368	523	667	704	700	605	184	88.1	66.8	60.3
MAX	627	1252	1513	2918	1666	1499	2116	1828	929	499	576	634
(WY)	1950	1952	1969	1949	2001	1953	1957	1961	1957	1950	1950	1970
MIN	.002	.043	.68	16.3	51.9	147	105	83.4	15.8	1.21	.56	.000
(WY)	2000	1954	1954	1964	1963	1956	1963	2001	1966	1953	1952	2000

07257500 ILLINOIS BAYOU NEAR SCOTTSVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1948-70, 2000-01	
ANNUAL TOTAL	80286.29		87176.51			
ANNUAL MEAN	219		239		355	
HIGHEST ANNUAL MEAN					693	1950
LOWEST ANNUAL MEAN					142	1954
HIGHEST DAILY MEAN	3380	Feb 26	12800	Feb 16	38500	Jan 24 1949
LOWEST DAILY MEAN	.00	Aug 26	.00	Oct 3	.00	Sep 17 1953
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 26	.02	Oct 1	.00	Sep 17 1953
MAXIMUM PEAK FLOW			17500	Feb 16	[a]130000	Dec 3 1982
MAXIMUM PEAK STAGE			15.89	Feb 16	27.49	Dec 3 1982
INSTANTANEOUS LOW FLOW			.00	Oct 2-5	.00	at times
ANNUAL RUNOFF (AC-FT)	159200		172900		256800	
ANNUAL RUNOFF (CFSM)	.91		.99		1.47	
ANNUAL RUNOFF (INCHES)	12.39		13.46		19.99	
10 PERCENT EXCEEDS	514		450		815	
50 PERCENT EXCEEDS	76		68		97	
90 PERCENT EXCEEDS	.00		.52		1.4	

[a]From rating curve extended above 56,100 ft^3/s on basis of contracted-opening and flow-over-road measurement of peak flow
[e]Estimated



07258000 ARKANSAS RIVER AT DARDANELLE

LOCATION.--Lat 35°13'34", long 93°08'58", in SW1/4 sec.29, T.7 N., R.20 W., Pope County, Hydrologic Unit 11110203, near left bank on upstream side of bridge on State Highway 7 at Dardanelle, 1.0 mi upstream from Whig Creek, 2.0 mi downstream from Dardanelle Dam, 4.7 mi downstream from Illinois Bayou, and at mile 219.5.

DRAINAGE AREA.--153,670 mi², of which 22,241 mi² is probably noncontributing.

PERIOD OF RECORD.--July 1937 to September 1994, October 2000 to current year. Annual maximum 1995-2000. Gage-height records collected at same site since 1886 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 280.16 ft above sea level. Prior to Jan. 11, 1939, nonrecording gage at same site at datum 10.0 ft higher. Jan. 11, 1939, to Dec. 10, 1970, water-stage recorder at same site at datum 10.0 ft higher. Feb. 13, 1969, to May 16, 1985, totalizing flow meters on each turbine in Dardanelle Dam, 2.0 mi upstream.

REMARKS.--No estimated daily discharges. Water-discharge records good except for those below 10,000 ft³/s, which are fair. Flow regulated upstream by many locks, dams, and reservoirs. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 43.0 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	6150	24300	20900	110000	145000	17500	14500	146000	55700	14700	815
2	4050	11800	26800	13200	77400	150000	20000	18200	104000	30900	13200	50
3	2460	16700	20100	16700	61600	156000	20100	11600	72500	23000	7050	1470
4	2670	12100	23400	21300	69300	161000	20000	13300	75500	41300	50	50
5	8810	14000	28600	21800	69500	158000	38300	11000	69000	42500	1360	1090
6	11300	47900	11800	23600	69400	154000	53000	10000	77200	7060	12900	50
7	504	67400	18600	26500	65000	152000	57100	3050	87300	140	19300	5820
8	2600	37000	23900	10700	59400	151000	39100	5530	73900	22100	23600	3760
9	5200	30000	14400	26900	62500	151000	26700	6860	70300	24200	9060	17800
10	356	35300	7170	34200	63800	147000	29200	8120	43800	7520	15700	50
11	1460	46200	11100	36800	63600	148000	15900	6040	47700	21000	50	2520
12	721	52800	15400	52500	59200	149000	25900	18500	54200	19900	50	2180
13	50	52100	8930	42300	69600	149000	6900	10000	64300	50	9810	3440
14	591	50100	8830	42300	74400	150000	17800	9500	40200	11500	6270	7890
15	1440	21000	11500	38600	105000	139000	34400	10900	60900	4360	2190	50
16	2950	14200	14800	19900	203000	129000	35600	8690	59200	15700	50	1530
17	3400	24900	20200	35800	205000	130000	12400	22500	62600	12200	372	3400
18	50	26800	16800	34500	158000	107000	38000	21600	36300	9620	50	6770
19	1080	14800	21700	36700	120000	93600	39000	22200	39800	12700	1900	16500
20	1940	4520	9120	36400	108000	86500	27100	48800	50600	21300	9080	13900
21	50	19200	15400	12200	91400	88700	29800	60600	53600	14200	7100	4430
22	50	20000	16000	19000	77300	88500	27500	77200	59900	11200	16000	4800
23	7570	4250	12800	25400	86500	81800	10800	65100	38900	8160	13400	4500
24	9260	23100	7840	25900	106000	78100	16100	31000	54300	14500	7850	12900
25	3250	59200	7210	27600	157000	73600	19300	37100	56400	16100	5600	8430
26	2590	55300	11800	22400	162000	68900	24500	20400	60900	2630	50	11800
27	348	28300	30100	9470	144000	61300	15000	8040	60000	50	1680	14300
28	5060	25900	45800	5330	129000	60200	35500	20300	37700	50	50	3020
29	3630	31000	36400	35600	---	57200	23200	22300	36500	50	2460	10700
30	7390	30500	36400	86500	---	38200	50	59200	48000	16800	93	50
31	14300	---	22500	107000	---	36400	---	109000	---	20300	2920	---
TOTAL	106480	882520	579700	968000	2826900	3539000	775750	791130	1841500	486790	203945	164065
MEAN	3435	29420	18700	31230	101000	114200	25860	25520	61380	15700	6579	5469
MAX	14300	67400	45800	107000	205000	161000	57100	109000	146000	55700	23600	17800
MIN	50	4250	7170	5330	59200	36400	50	3050	36300	50	50	50
AC-FT	211200	1750000	1150000	1920000	5607000	7020000	1539000	1569000	3653000	965500	404500	325400

07258000 ARKANSAS RIVER AT DARDANELLE--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970-94, 2001, BY WATER YEAR (WY)

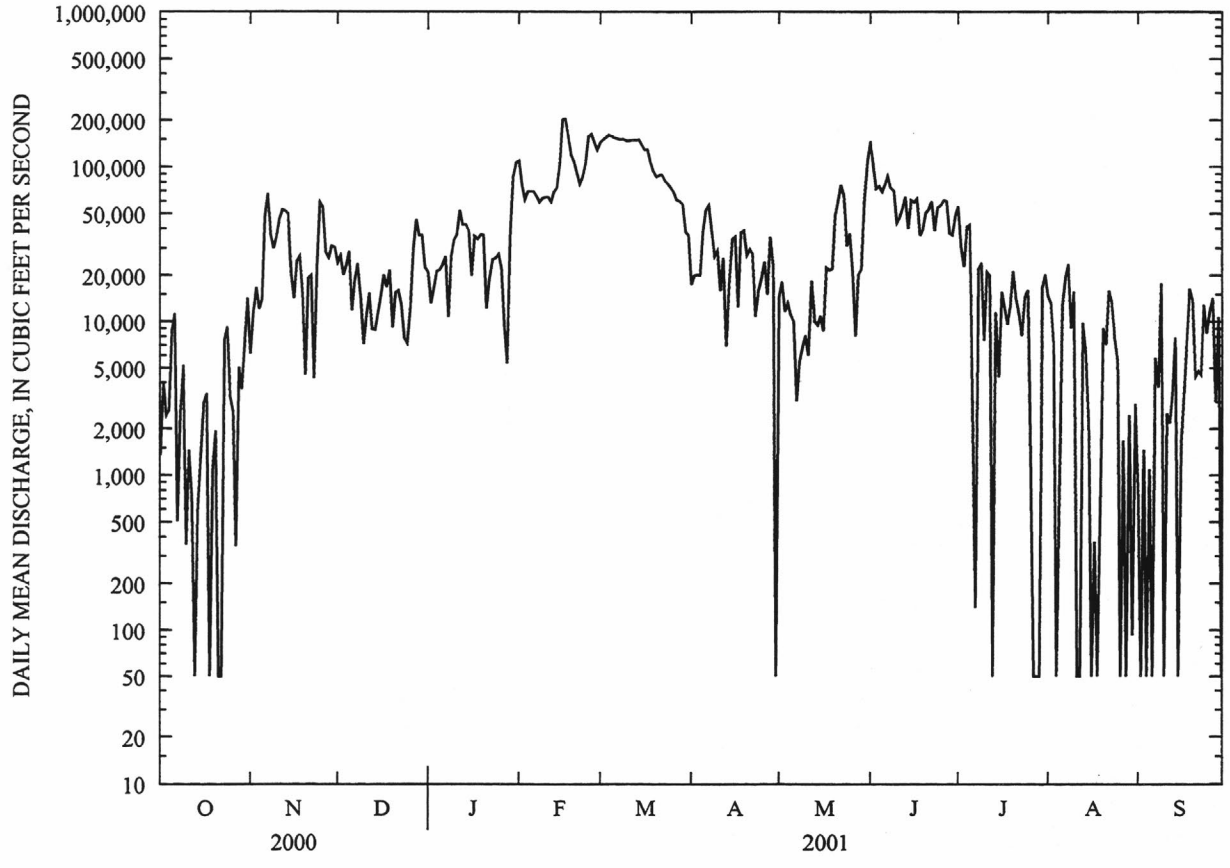
MEAN	27730	40210	42420	36440	41400	65680	65150	65380	58470	26260	14320	15750
MAX	218900	166600	145500	123700	101000	158200	184700	211100	127800	58700	59480	49900
(WY)	1987	1975	1993	1993	2001	1987	1973	1990	1982	1993	1992	1989
MIN	1334	1207	3612	946	4213	8587	4520	16140	5117	5252	3990	3818
(WY)	1981	1981	1990	1981	1981	1972	1981	1981	1988	1991	1991	1983

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1970-94, 2001	
ANNUAL TOTAL	13165780			
ANNUAL MEAN	36070		[a]41570	
HIGHEST ANNUAL MEAN			88010	1993
LOWEST ANNUAL MEAN			9312	1981
HIGHEST DAILY MEAN	205000	Feb 17	419000	May 4 1990
LOWEST DAILY MEAN	50	Oct 13	40	Sep 18 1982
ANNUAL SEVEN-DAY MINIMUM	921	Aug 31	540	Nov 6 1980
MAXIMUM PEAK FLOW	240000	Feb 16	[b]433000	May 4 1990
MAXIMUM PEAK STAGE	29.09	Feb 16	[c]42.14	May 4 1990
ANNUAL RUNOFF (AC-FT)	26110000		30110000	
10 PERCENT EXCEEDS	89800		110000	
50 PERCENT EXCEEDS	20300		26200	
90 PERCENT EXCEEDS	1450		3040	

[a]Prior to regulation, water years 1938-69, 34,760 ft^3/s

[b]Maximum discharge for period of record, 683,000 ft^3/s, May 13, 1943

[c]Maximum gage height, 43.60 ft, in gage well, 44.1 ft from outside gage, May 25, 1943, present datum



07258500 PETIT JEAN RIVER NEAR BOONEVILLE

LOCATION.--Lat 35°06'25", long 93°55'25", in NW1/4NW1/4 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 downstream from Fletcher Creek, 2.3 mi south of Booneville.

DRAINAGE AREA.--241 mi^2.

PERIOD OF RECORD.--November 1938 to September 1984, October 1999 to current year. Annual maximum water years 1985-99. 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 above sea level.

REMARKS.--Records good except estimated daily discharges which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.77	197	435	523	972	143	26	783	.84	.12	.00
2	.29	2.3	165	324	424	708	115	22	460	.54	.06	.00
3	.21	4.4	135	304	327	603	102	18	305	.54	.00	.00
4	.17	12	118	293	286	1010	94	16	207	.55	.00	.00
5	.12	17	106	376	242	654	80	15	125	.62	.00	.00
6	.19	1630	98	501	211	482	72	14	79	.72	.00	.00
7	.14	581	87	559	189	406	64	13	56	.72	.00	.00
8	.05	349	81	585	172	351	58	12	44	.69	.00	.09
9	.02	483	75	467	318	306	52	10	33	.70	.00	6.6
10	.00	337	75	366	412	266	47	8.4	23	.65	.00	2.2
11	.00	234	75	656	306	254	95	11	17	.56	.00	.61
12	.00	197	67	749	272	691	217	43	12	.53	.00	.33
13	.00	358	95	549	330	491	156	53	8.2	.53	.00	.22
14	.00	280	214	515	730	382	141	22	6.1	.62	.00	.16
15	.00	204	277	407	4030	673	569	12	11	.58	.00	.12
16	.00	157	588	331	11400	499	515	8.6	10	.56	.00	.10
17	.00	116	474	612	7170	368	317	6.3	11	.74	.00	.15
18	.00	90	370	778	1850	308	227	5.2	7.2	.59	.00	.18
19	.00	76	322	588	1070	267	178	4.4	3.8	.49	.00	.41
20	.00	69	255	431	696	231	146	4.6	2.7	.44	.00	3.5
21	.00	59	235	353	548	199	120	2710	2.4	.40	.00	26
22	.00	51	190	308	459	172	97	938	2.8	.35	.00	13
23	.00	160	165	272	415	151	96	413	3.1	.32	.00	23
24	.00	2860	146	243	828	135	144	262	2.5	.27	.00	26
25	.00	3340	138	211	1300	117	109	187	2.0	.18	.00	5.0
26	.02	917	e186	186	710	95	76	128	1.6	.15	.00	2.6
27	.13	537	e1520	163	1360	79	60	86	1.3	.09	.00	1.8
28	.15	383	1350	143	1620	81	48	88	1.1	.09	.00	1.4
29	.18	297	1060	2690	---	211	39	252	.90	.23	.00	1.5
30	.39	236	635	1730	---	233	32	2730	1.3	.23	.00	2.6
31	.55	---	538	771	---	187	---	1940	---	.20	.00	---
TOTAL	2.94	14037.47	10037	16896	38198	11582	4209	10058.5	2223.00	14.72	0.18	117.57
MEAN	.095	468	324	545	1364	374	140	324	74.1	.47	.006	3.92
MAX	.55	3340	1520	2690	11400	1010	569	2730	783	.84	.12	26
MIN	.00	.77	67	143	172	79	32	4.4	.90	.09	.00	.00
AC-FT	5.8	27840	19910	33510	75770	22970	8350	19950	4410	29	.4	233
CFSM	.00	1.94	1.34	2.26	5.66	1.55	.58	1.35	.31	.00	.00	.02
IN.	.00	2.17	1.55	2.61	5.90	1.79	.65	1.55	.34	.00	.00	.02

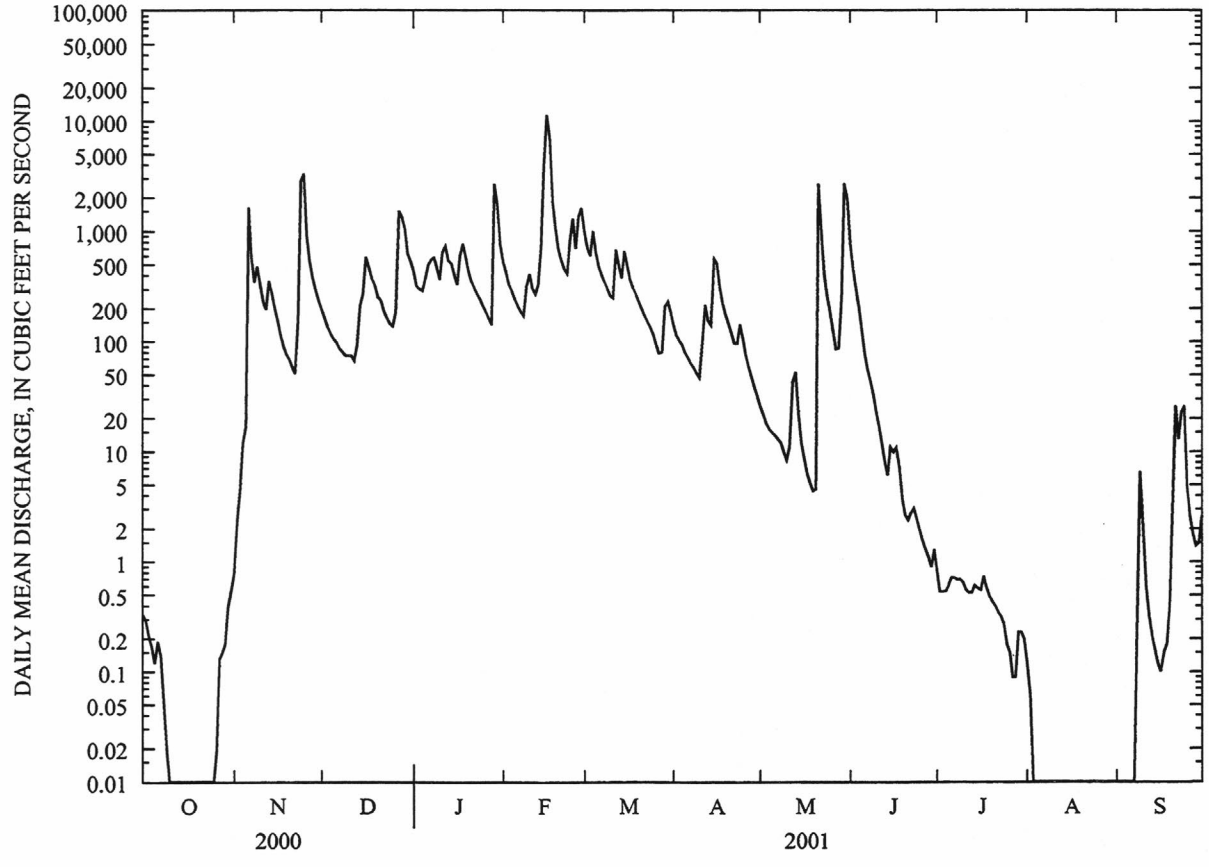
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-84, 2000-01, BY WATER YEAR (WY)

MEAN	60.1	182	274	291	422	501	461	471	145	63.8	32.0	43.9
MAX	465	1576	1615	1854	1587	2610	1913	1779	1053	730	567	401
(WY)	1968	1973	1983	1949	1945	1945	1957	1968	1945	1961	1957	1945
MIN	.000	.000	.013	.000	8.81	21.1	43.3	15.6	1.76	.13	.000	.000
(WY)	1947	1964	1964	1956	1967	1940	1982	1977	1972	1954	1980	1939

07258500 PETIT JEAN RIVER NEAR BOONEVILLE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939-84, 2000-01	
ANNUAL TOTAL	49249.14		107376.38			
ANNUAL MEAN	135		294		244	
HIGHEST ANNUAL MEAN					657	1945
LOWEST ANNUAL MEAN					46.2	1956
HIGHEST DAILY MEAN	3340	Nov 25	11400	Feb 16	28600	Apr 16 1939
LOWEST DAILY MEAN	.00	Sep 2	.00	Oct 10	.00	Aug 19 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 2	.00	Oct 10	.00	Aug 31 1939
MAXIMUM PEAK FLOW			13500	Feb 16	43200	Apr 16 1939
MAXIMUM PEAK STAGE			21.34	Feb 16	23.42	Apr 16 1939
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	97690		213000		177000	
ANNUAL RUNOFF (CFSM)	.56		1.22		1.01	
ANNUAL RUNOFF (INCHES)	7.60		16.57		13.77	
10 PERCENT EXCEEDS	328		643		474	
50 PERCENT EXCEEDS	28		67		33	
90 PERCENT EXCEEDS	.00		.00		.20	

[e]Estimated



07260000 DUTCH CREEK AT WALTREAK

LOCATION.--Lat 34°59'15", long 93°36'47", in SE1/4NW1/4 sec.24, T.4 N., R.25 W., Yell County, Hydrologic Unit 11110204, on left bank 0.2 mi north of Waltreak and 21.0 mi upstream from mouth.

DRAINAGE AREA.--81.4 mi^2.

PERIOD OF RECORD.--October 1945 to September 1975, October 1999 to current year. Annual maximum 1976-99. Monthly discharge only for some periods published in WSP-1311.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 371.48 ft above sea level.

REMARKS.--Records good except estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1927 reached a stage of 19.5 ft, discharge about 14,600 ft^3/st, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	50	90	198	336	59	9.5	181	1.8	.00	.00
2	.00	.00	39	72	150	239	55	7.8	125	1.3	.00	.00
3	.00	.00	33	61	121	194	51	6.2	93	1.1	.00	.00
4	.00	.00	28	54	104	561	46	5.2	67	.98	.00	.00
5	.00	.00	23	53	87	352	43	4.7	48	.85	.00	.00
6	.00	55	20	116	71	229	40	4.1	38	.74	.00	.00
7	.00	58	18	201	55	174	35	3.4	31	.55	.00	.00
8	.00	36	15	261	52	141	31	2.9	24	.38	.00	.00
9	.00	82	14	212	48	116	27	2.5	19	.19	.00	.02
10	.00	44	13	166	51	99	23	2.1	16	.04	.00	.07
11	.00	25	12	221	53	88	23	2.1	13	.00	.00	.74
12	.00	19	10	297	49	158	32	3.0	10	.00	.00	.90
13	.00	32	11	244	52	139	39	2.0	8.7	1.2	.00	.63
14	.00	44	12	223	329	141	34	1.7	7.7	2.0	.00	.37
15	.00	28	12	181	1880	628	46	1.6	18	.94	.00	.14
16	.00	21	14	141	4740	349	86	1.4	11	.50	.00	.00
17	.00	16	33	150	928	218	74	1.2	8.4	.26	.00	.80
18	.00	13	37	281	476	165	60	1.1	6.5	.05	.00	7.1
19	.00	11	34	255	323	136	52	1.0	5.4	.00	.00	12
20	.00	8.8	33	203	230	116	45	1.1	4.6	.00	.00	6.1
21	.00	7.5	29	161	174	100	40	304	4.3	.00	.00	3.2
22	.00	6.7	26	138	139	87	34	328	4.0	.00	.00	2.2
23	.00	10	24	118	118	77	30	124	3.1	.00	.00	2.4
24	.00	1120	22	102	252	69	28	70	2.7	.00	.00	2.4
25	.00	957	20	90	711	60	26	44	2.3	.00	.00	2.0
26	.00	321	e12	79	323	52	22	28	1.9	.00	.00	1.6
27	.00	178	e26	66	396	46	20	19	1.6	.00	.00	1.3
28	.00	118	103	58	509	44	17	18	1.5	.00	.00	1.0
29	.00	86	147	439	---	57	13	50	1.3	.00	.00	.80
30	.00	65	132	561	---	74	11	332	1.8	.00	.00	.64
31	.00	---	108	288	---	68	---	306	---	.00	.00	---
TOTAL	0.00	3362.1	1110	5582	12619	5313	1142	1687.6	759.8	12.88	0.00	46.41
MEAN	.000	112	35.8	180	451	171	38.1	54.4	25.3	.42	.000	1.55
MAX	.00	1120	147	561	4740	628	86	332	181	2.0	.00	12
MIN	.00	.00	10	53	48	44	11	1.0	1.3	.00	.00	.00
AC-FT	.00	6670	2200	11070	25030	10540	2270	3350	1510	26	.00	92
CFSM	.00	1.38	.44	2.21	5.54	2.11	.47	.67	.31	.01	.00	.02
IN.	.00	1.54	.51	2.55	5.77	2.43	.52	.77	.35	.01	.00	.02

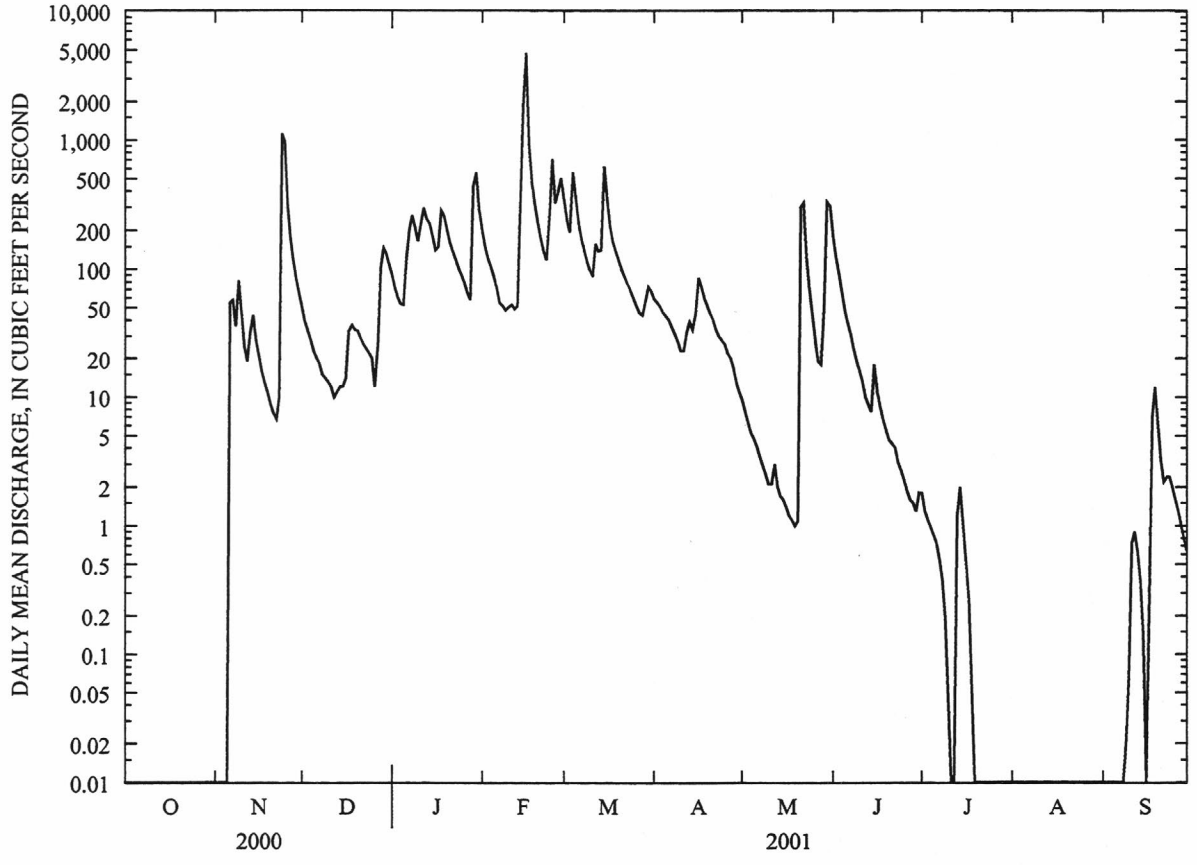
07260000 DUTCH CREEK AT WALTREAK--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946-75, 2000-01, BY WATER YEAR (WY)

MEAN	21.7	68.7	118	131	158	190	178	160	45.6	31.2	10.7	9.94
MAX	178	366	480	643	494	598	839	587	283	378	126	99.8
(WY)	1974	1973	1972	1949	1950	1973	1957	1968	1974	1969	1957	1950
MIN	.000	.000	.000	.000	4.69	11.3	20.4	11.7	2.04	.026	.000	.000
(WY)	1947	1954	1954	1964	1967	1972	1963	2000	1964	1954	1954	1946

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1946-75, 2000-01	
ANNUAL MEAN	48.6		86.7		93.5	
HIGHEST ANNUAL MEAN					225	1973
LOWEST ANNUAL MEAN					27.2	1963
HIGHEST DAILY MEAN	1380	Jun 21	4740	Feb 16	9540	Jul 26 1969
LOWEST DAILY MEAN	.00	Aug 8	.00	Oct 1	.00	Aug 24 1946
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 8	.00	Oct 1	.00	Aug 24 1946
MAXIMUM PEAK FLOW			8270	Feb 16	24500	Jul 26 1969
MAXIMUM PEAK STAGE			16.13	Feb 16	22.38	Jul 26 1969
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
10 PERCENT EXCEEDS	105		219		175	
50 PERCENT EXCEEDS	14		14		17	
90 PERCENT EXCEEDS	.00		.00		.00	

[e]Estimated



07260500 PETIT JEAN RIVER AT DANVILLE

LOCATION.--Lat 35°03'33", long 93°23'44", in NW1/4SE1/4 sec.25, T.5 N., R.23 W., Yell County, Hydrologic Unit 11110204, on right bank 125 ft upstream of bridge on State Highway 10 at Danville, 0.3 mi upstream from old Chicago, Rock Island and Pacific Railroad Co. bridge, 0.5 mi upstream from Spring Creek, 0.6 mi downstream from Dutch Creek, and at mile 48.8.

DRAINAGE AREA.--764 mi^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 above sea level. June 1, 1916, to Aug. 24, 1934, nonrecording gage on railroad bridge 0.3 mi downstream at datum 0.25 ft higher. Aug. 25, 1934, to July 12, 1939, nonrecording gage at present site and datum. Since June 18, 1954, auxiliary water-stage recorder 2.2 mi downstream.

REMARKS.--Records good. Flow regulated since March 1947 by Blue Mountain Lake, 25.6 mi upstream, capacity, 257,900 acre-ft. As of July 1986, flow from 51.6 mi^2 upstream from this station is controlled by three floodwater-detention reservoirs that have a total combined capacity of 23,737 acre-ft below the spillway crests, of which 16,361 acre-ft is flood-detention capacity, 4,500 acre-ft is water-supply storage, and 2,876 acre-ft is sediment-storage capacity. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	4.1	2460	2010	2150	2620	2380	91	1260	31	27	17
2	80	7.1	2530	1860	2330	2550	2350	86	1330	17	21	13
3	84	2.9	2510	1190	2590	2440	2440	82	1210	16	14	10
4	88	12	2430	894	2670	2750	2450	77	1170	21	7.2	7.2
5	92	19	2290	617	2600	2460	2350	74	1430	18	7.0	4.0
6	87	129	1530	661	2470	2160	1880	75	1470	14	5.4	2.1
7	38	284	705	841	1850	2390	1710	78	1430	12	4.4	1.8
8	20	693	434	1070	1010	2600	1690	92	1400	10	4.5	17
9	14	870	252	1520	581	2590	1620	70	1360	7.8	9.9	63
10	13	844	210	1530	587	2520	1570	61	1310	6.8	11	61
11	13	784	198	1570	558	2460	1480	58	1270	5.9	13	24
12	12	764	143	1960	555	2360	1300	58	1130	6.2	35	23
13	14	822	130	1720	887	2390	941	43	237	24	39	23
14	15	842	134	1650	1700	2590	515	38	131	44	31	20
15	9.9	1100	141	1540	4360	2880	337	34	117	23	23	20
16	3.9	1090	357	1600	9040	2300	431	33	98	17	23	20
17	2.1	1010	463	1600	12500	2500	1030	32	78	16	20	21
18	1.8	439	538	1900	5580	2530	1420	31	71	17	13	24
19	1.6	254	1060	1540	e2850	2440	1390	30	62	12	5.5	54
20	2.2	226	1090	1600	e1270	2540	905	32	48	8.3	6.8	80
21	3.7	173	1060	1630	2270	2540	648	888	35	8.1	8.5	54
22	5.6	113	640	1540	2950	2500	600	1670	25	8.0	8.3	41
23	4.4	96	518	1950	3510	2460	577	1010	19	6.4	6.4	35
24	3.8	1410	500	1610	3970	2530	423	1110	21	6.3	5.6	34
25	3.2	3670	488	1040	4280	2530	373	1050	24	3.7	4.9	37
26	2.8	2680	502	753	2250	2500	350	1000	18	2.7	3.5	59
27	3.0	1020	638	554	2730	2510	166	960	18	6.7	6.4	62
28	5.3	2040	935	503	2950	2490	110	929	15	9.0	11	72
29	5.2	2370	1640	1010	---	2440	101	909	11	20	10	73
30	5.3	2460	2240	2430	---	1930	93	1400	98	22	14	67
31	4.1	---	2130	1420	---	2300	---	1470	---	23	17	---
TOTAL	713.9	26228.1	30896	43313	83048	76800	33630	13571	16896	442.9	416.3	1039.1
MEAN	23.0	874	997	1397	2966	2477	1121	438	563	14.3	13.4	34.6
MAX	92	3670	2530	2430	12500	2880	2450	1670	1470	44	39	80
MIN	1.6	2.9	130	503	555	1930	93	30	11	2.7	3.5	1.8
AC-FT	1420	52020	61280	85910	164700	152300	66710	26920	33510	878	826	2060

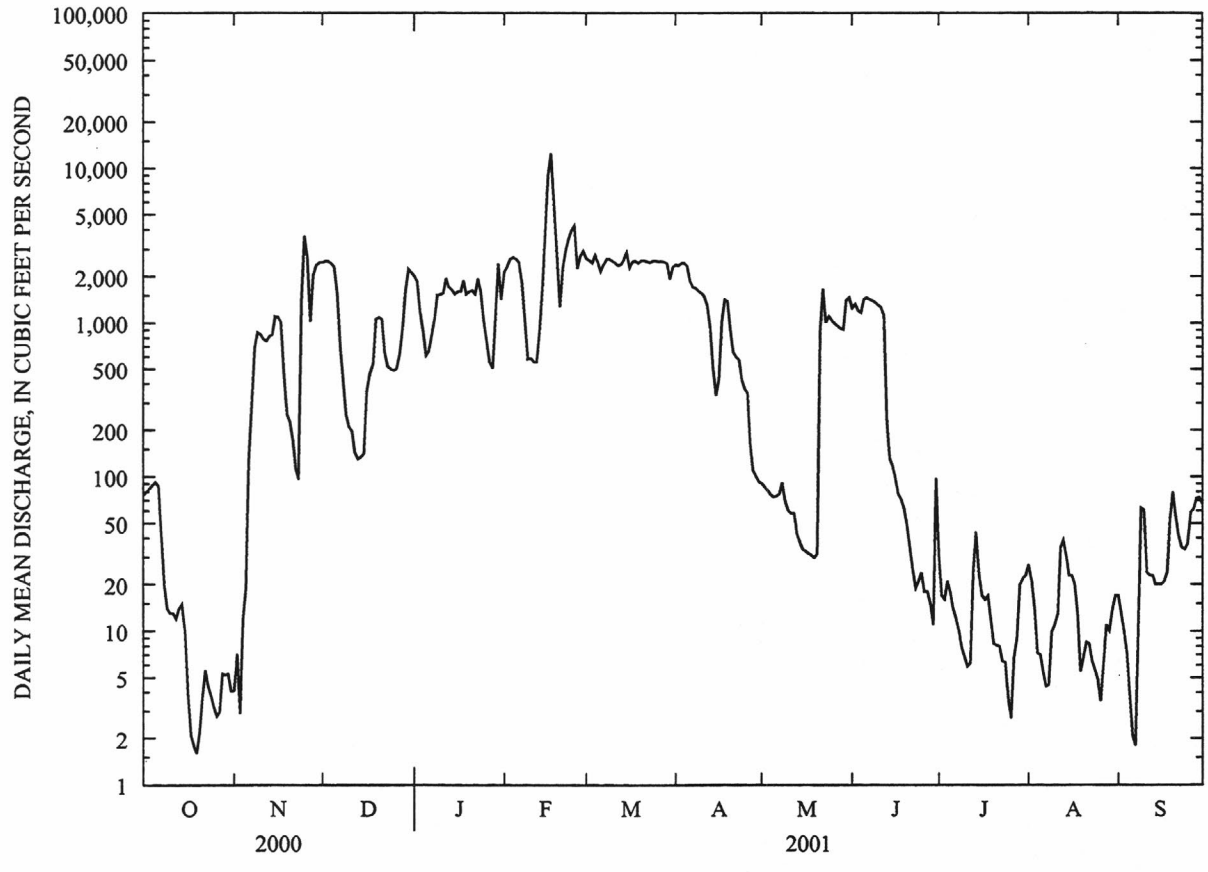
07260500 PETIT JEAN RIVER AT DANVILLE--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)

MEAN	187	593	1197	1159	1323	1492	1347	1402	746	321	173	106
MAX	3261	3296	4004	3920	4941	3233	3821	6142	2801	2268	2101	1108
(WY)	1985	1973	1983	1998	1949	1973	1957	1990	1957	1957	1957	1950
MIN	1.03	1.27	3.84	3.82	25.2	82.5	106	46.4	26.9	2.49	4.07	6.79
(WY)	1947	1996	1966	1964	1967	1967	1963	1977	1966	1985	1947	1982

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001	
ANNUAL TOTAL	144592.74		326994.3			
ANNUAL MEAN	395		896		[a]835	
HIGHEST ANNUAL MEAN					1920	1973
LOWEST ANNUAL MEAN					187	1976
HIGHEST DAILY MEAN	3670	Nov 25	12500	Feb 17	26400	Dec 3 1982
LOWEST DAILY MEAN	.84	Sep 4	1.6	Oct 19	.00	Aug 11 1956
ANNUAL SEVEN-DAY MINIMUM	3.0	Oct 16	3.0	Oct 16	.01	Oct 24 1999
MAXIMUM PEAK FLOW			15300	Feb 17	[b]47500	Dec 3 1982
MAXIMUM PEAK STAGE			25.23	Feb 17	[c]29.36	Dec 3 1982
INSTANTANEOUS LOW FLOW			1.4	Sep 7	.00	at times
ANNUAL RUNOFF (AC-FT)	286800		648600		605000	
10 PERCENT EXCEEDS	1060		2480		2530	
50 PERCENT EXCEEDS	154		254		185	
90 PERCENT EXCEEDS	6.7		6.6		10	

[a]Prior to regulation, water years 1917-46, 845 ft^3/s
[b]Maximum discharge for period of record, 70,800 ft^3/s Apr. 17, 1939
[c]Maximum gage height for period of record, 31.82 ft Apr. 17, 1939
[e]Estimated



07261000 CADRON CREEK NEAR GUY

LOCATION.--Lat 35°17'55", long 92°24'14", in NW1/4SE1/4 sec.29, T.8 N., R.13 W., Faulkner County, Hydrologic Unit 11110205, on left bank on downstream side of bridge on U.S. Highway 65, 4.3 mi southwest of Guy, 10.5 mi upstream from Cove Creek, and at mile 48.3.

DRAINAGE AREA.--169 mi².

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as "North Fork Cadron Creek near Guy."

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 371.68 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.04	104	122	449	626	183	29	36	2.1	4.6	1.8
2	.03	.98	91	78	353	530	185	26	38	2.6	2.9	1.8
3	.03	.29	81	73	290	454	170	23	30	2.1	2.0	1.5
4	.02	.53	73	72	254	731	156	21	24	1.3	1.1	1.1
5	.14	.43	67	68	219	686	143	20	20	.84	.61	1.4
6	.68	3.0	63	67	192	536	134	20	16	.15	.45	1.2
7	.15	3.1	60	e60	173	451	125	20	13	.30	.37	.89
8	.10	16	56	e85	158	386	113	19	11	.47	.37	.92
9	.09	25	52	85	172	329	100	20	8.9	.25	.41	12
10	.10	53	49	80	284	280	92	19	8.0	.05	4.5	3.8
11	.08	51	47	85	222	249	87	18	6.7	.05	14	2.1
12	.09	43	44	111	202	347	83	17	5.7	.10	90	1.8
13	.09	49	47	131	1010	333	79	13	5.0	1.2	22	1.1
14	.09	93	54	191	3110	260	74	11	4.4	.90	22	.75
15	.09	81	67	259	5200	309	84	10	6.5	1.3	16	.65
16	.10	62	88	227	6390	349	103	8.6	6.2	1.2	8.5	.52
17	.11	51	186	262	4030	279	83	7.2	18	.97	5.6	.39
18	.11	41	196	478	1670	246	70	6.2	9.8	.69	4.1	.41
19	.09	35	163	553	1160	224	65	5.4	6.4	.57	3.1	.91
20	.08	30	132	474	858	203	62	8.3	5.0	.44	2.5	.89
21	.06	27	127	372	674	183	60	31	5.4	.17	2.0	.92
22	.06	23	107	306	574	165	57	49	6.1	.26	1.5	.90
23	.05	24	91	261	484	150	57	68	4.4	.24	.96	.76
24	.05	66	85	228	463	137	58	47	3.4	.16	.71	.57
25	.05	670	80	198	715	124	59	32	2.8	.32	.64	.47
26	.05	475	80	175	540	109	52	24	2.4	2.0	.92	.39
27	.05	285	91	161	635	101	45	18	2.1	2.9	.89	.34
28	.05	203	119	145	812	98	40	15	2.1	2.7	.82	.30
29	.05	157	150	267	---	126	35	12	2.1	20	.90	.24
30	.05	124	157	965	---	211	32	18	2.0	26	1.0	.21
31	.05	---	140	619	---	194	---	25	---	9.6	1.3	---
TOTAL	2.87	2692.37	2947	7258	31293	9406	2686	660.7	311.4	81.93	216.75	41.03
MEAN	.093	89.7	95.1	234	1118	303	89.5	21.3	10.4	2.64	6.99	1.37
MAX	.68	670	196	965	6390	731	185	68	38	26	90	12
MIN	.02	.04	44	60	158	98	32	5.4	2.0	.05	.37	.21
AC-FT	5.7	5340	5850	14400	62070	18660	5330	1310	618	163	430	81
CFSM	.00	.53	.56	1.39	6.61	1.80	.53	.13	.06	.02	.04	.01
IN.	.00	.59	.65	1.60	6.89	2.07	.59	.15	.07	.02	.05	.01

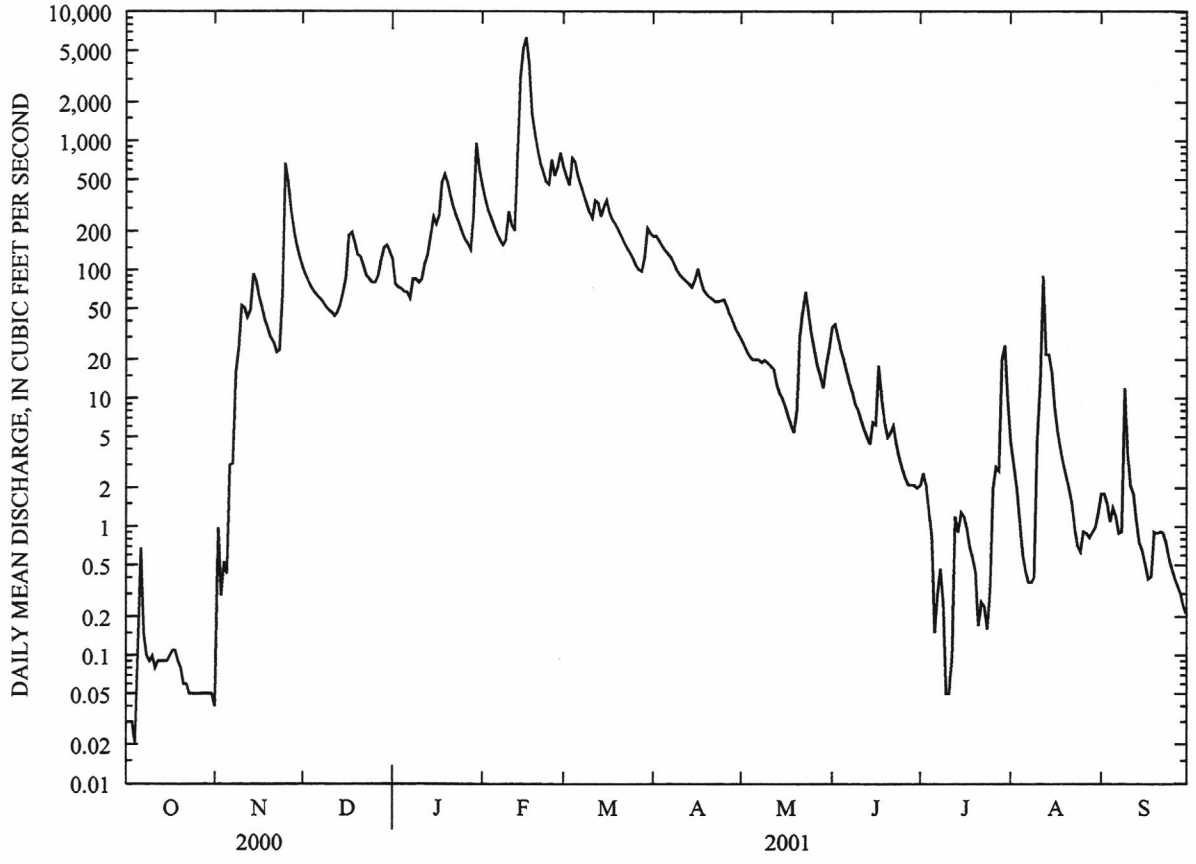
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2001, BY WATER YEAR (WY)

MEAN	72.9	274	407	388	480	547	466	362	139	38.1	41.4	53.3
MAX	872	1318	1875	1679	1498	1542	1818	1606	867	333	1145	523
(WY)	1985	1958	1983	1991	1956	1975	1973	1968	1974	1960	1957	1977
MIN	.000	.000	6.97	21.0	49.6	91.8	81.1	21.3	5.25	.78	.031	.000
(WY)	1955	1955	1955	1955	1963	1972	1960	2001	1988	1998	1999	1999

07261000 CADRON CREEK NEAR GUY--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1955 - 2001	
ANNUAL TOTAL	49343.52		57597.05			
ANNUAL MEAN	135		158		271	
HIGHEST ANNUAL MEAN					566	1973
LOWEST ANNUAL MEAN					120	1996
HIGHEST DAILY MEAN	4030	Jan 3	6390	Feb 16	14800	Dec 4 1982
LOWEST DAILY MEAN	.00	Aug 18	.02	Oct 4	.00	Oct 1 1954
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 18	.05	Oct 26	.00	Oct 1 1954
MAXIMUM PEAK FLOW			8190	Feb 16	24200	Dec 4 1982
MAXIMUM PEAK STAGE			15.49	Feb 16	29.29	Dec 4 1982
INSTANTANEOUS LOW FLOW			.01	Oct 4-5	.00	at times
ANNUAL RUNOFF (AC-FT)	97870		114200		196500	
ANNUAL RUNOFF (CFSM)	.80		.93		1.60	
ANNUAL RUNOFF (INCHES)	10.86		12.68		21.81	
10 PERCENT EXCEEDS	322		339		643	
50 PERCENT EXCEEDS	70		25		88	
90 PERCENT EXCEEDS	.00		.17		1.0	

[e]Estimated



07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY

LOCATION.--Lat 34°52'21", long 93°39'24", in NW1/4NW1/4 sec.34, T.3 N., R.25 W., Yell County, Hydrologic Unit 11110206, near left bank on downstream side of bridge on State Highway 28, 1.2 mi downstream from Garner Creek, 1.9 mi east of Gravelly, 6.4 mi upstream from Gaffords Creek, and at mile 103.7.

DRAINAGE AREA.--410 mi^2.

PERIOD OF RECORD.--February 1939 to September 1994, October 1999 to current year. Annual maximum water years 1995-99.

GAGE.--Water-stage recorder. Datum of gage is 410.50 ft above sea level. Prior to May 11, 1939, nonrecording gage at present site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.96	441	726	1260	1600	731	93	992	23	1.9	2.8
2	1.0	4.1	361	577	944	1330	609	85	644	21	1.4	2.3
3	.83	4.8	304	e469	757	1130	528	79	447	17	1.4	1.8
4	.64	6.9	256	e406	639	2820	461	73	333	15	1.1	1.3
5	.61	12	221	436	541	2370	399	69	258	14	.93	1.1
6	1.5	3110	193	744	464	1560	351	68	206	14	.68	1.0
7	1.2	1890	169	1280	408	1190	316	67	173	14	.72	.63
8	.68	1370	148	1540	363	954	284	61	147	13	.92	1.5
9	.47	2070	132	1190	347	786	254	57	127	13	1.3	258
10	.38	1110	120	873	433	657	228	52	109	12	1.4	663
11	.32	665	108	1000	509	564	209	52	94	11	1.9	271
12	.30	494	98	1530	433	1050	225	55	81	10	2.0	143
13	.13	1240	112	1140	573	1390	265	51	71	16	3.1	93
14	.05	1060	117	985	2330	1120	241	45	63	16	3.5	67
15	.02	673	137	831	7490	2540	515	40	75	12	2.9	52
16	.12	489	222	669	26500	1800	1240	37	62	11	2.8	42
17	.07	372	565	790	16300	1240	810	35	63	9.8	3.5	36
18	.02	297	554	1800	3220	966	583	34	55	8.9	4.4	33
19	.02	242	467	1690	2120	797	460	34	46	7.7	4.5	29
20	.02	203	e398	1290	1560	676	382	38	40	6.3	4.0	26
21	.08	171	345	962	1220	576	328	2110	36	5.6	3.1	23
22	.27	148	e303	770	987	494	283	1980	33	4.7	2.7	22
23	.19	228	256	633	838	428	244	870	31	4.2	2.4	20
24	.26	11800	224	535	902	428	215	503	27	3.5	2.2	151
25	.26	9100	207	450	3170	505	193	348	24	2.9	2.0	174
26	.27	2610	240	380	1960	421	169	264	22	2.4	1.8	70
27	.43	1480	1120	328	1460	354	147	203	20	2.0	2.0	42
28	.50	991	1880	286	1720	327	129	268	18	1.8	2.3	33
29	.50	725	1960	2080	---	565	115	1560	18	2.2	3.2	27
30	.79	552	1410	4190	---	1080	103	1660	23	2.1	3.3	22
31	.78	---	949	1930	---	899	---	1510	---	1.8	3.2	---
TOTAL	13.81	43118.76	14017	32510	79448	32617	11017	12401	4338	297.9	72.55	2309.43
MEAN	.45	1437	452	1049	2837	1052	367	400	145	9.61	2.34	77.0
MAX	1.5	11800	1960	4190	26500	2820	1240	2110	992	23	4.5	663
MIN	.02	.96	98	286	347	327	103	34	18	1.8	.68	.63
AC-FT	27	85530	27800	64480	157600	64700	21850	24600	8600	591	144	4580
CFSM	.00	3.51	1.10	2.56	6.92	2.57	.90	.98	.35	.02	.01	.19
IN.	.00	3.91	1.27	2.95	7.21	2.96	1.00	1.13	.39	.03	.01	.21

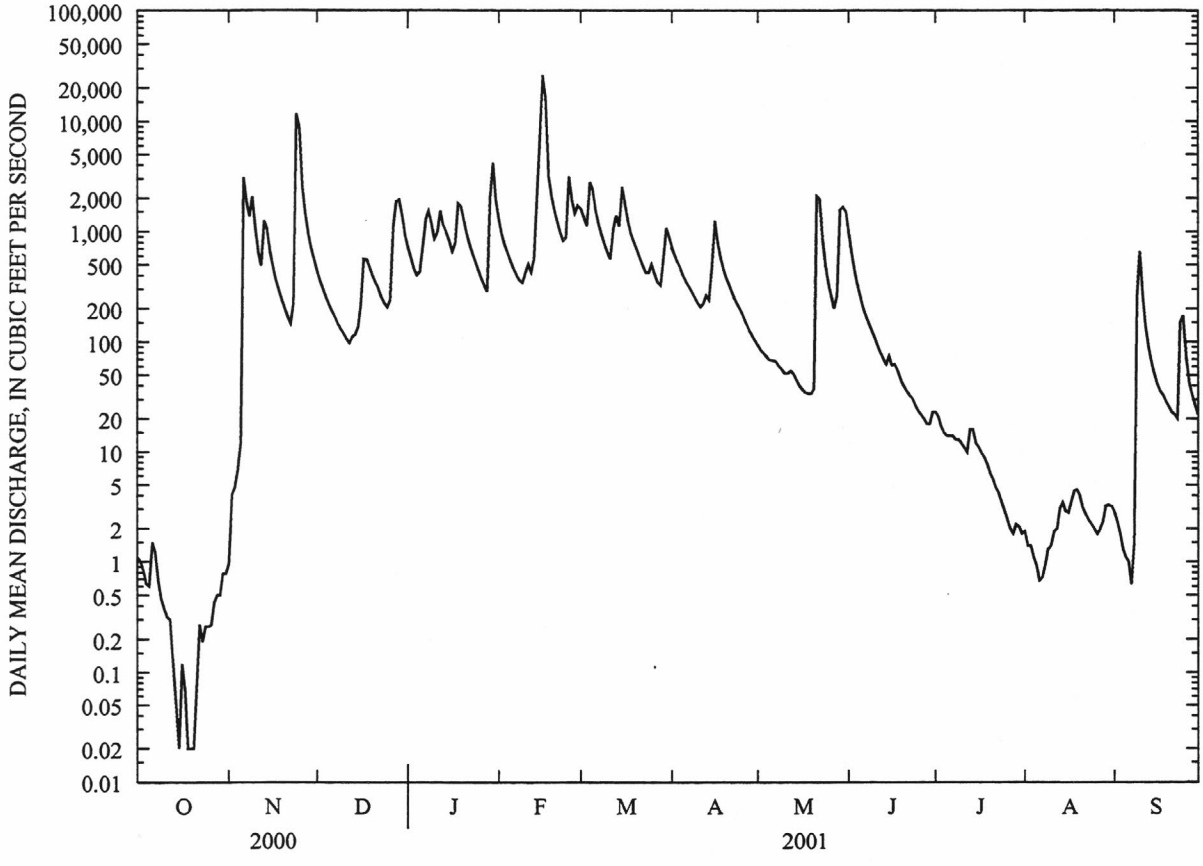
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-94, 2000-01, BY WATER YEAR (WY)

MEAN	197	460	733	680	899	1046	984	968	396	121	38.4	80.7
MAX	3507	2441	3611	3272	2989	5736	4080	4932	2416	1956	439	812
(WY)	1985	1973	1983	1949	1945	1945	1957	1990	1974	1969	1950	1950
MIN	.000	.000	.000	.019	27.4	65.7	157	51.3	5.78	.65	.000	.000
(WY)	1953	1957	1964	1964	1963	1940	1992	1977	1972	1964	1954	1943

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939-94, 2000-01	
ANNUAL TOTAL	156437.34		232160.45			
ANNUAL MEAN	427		636		548	
HIGHEST ANNUAL MEAN					1269	1945
LOWEST ANNUAL MEAN					115	1940
HIGHEST DAILY MEAN	15600	Jun 22	26500	Feb 16	67000	Dec 3 1982
LOWEST DAILY MEAN	.00	Sep 3	.02	Oct 15	.00	Sep 22 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 3	.05	Oct 14	.00	Sep 22 1939
MAXIMUM PEAK FLOW			42400	Feb 16	[a]162000	Dec 3 1982
MAXIMUM PEAK STAGE			26.88	Feb 16	[b]32.45	Dec 3 1982
INSTANTANEOUS LOW FLOW			.02	Oct 19-21	.00	at times
ANNUAL RUNOFF (AC-FT)	310300		460500		396900	
ANNUAL RUNOFF (CFSM)	1.04		1.55		1.34	
ANNUAL RUNOFF (INCHES)	14.19		21.06		18.16	
10 PERCENT EXCEEDS	835		1490		1170	
50 PERCENT EXCEEDS	146		171		129	
90 PERCENT EXCEEDS	.14		1.1		1.8	

[a]From rating curve extended above 47,000 ft^3/s on basis of contracted-opening and flow-over-road measurement of peak flow
[b]From floodmark
[e]Estimated



07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION

LOCATION.--Lat 34°52'34, long 92°46'28", in SE1/4NE1/4 sec.26, T.3 N., R.17 W., Perry County, Hydrologic Unit 11110207, near left bank on downstream side of State Highway 9 bridge 0.4 mi south of Williams Junction.

DRAINAGE AREA.--46.1 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 386.45 ft above sea level.

REMARKS.--Water-discharge records good, except estimated daily discharges and those below 2.0 ft^3/s, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	44	e63	105	141	46	3.1	30	1.6	1.4	.00
2	.00	1.3	35	e54	82	115	41	2.8	20	1.8	.85	.00
3	.00	.02	28	e53	69	102	37	2.4	14	1.5	.46	.00
4	.00	.75	23	e53	59	352	33	2.2	9.8	.59	.19	.00
5	.00	.94	20	61	49	214	29	1.9	7.4	.25	.00	.00
6	.00	85	18	109	60	147	27	1.9	6.4	.07	.00	.00
7	.00	31	16	158	58	113	23	1.8	6.4	.00	.00	.00
8	.00	95	13	180	39	91	20	1.8	5.1	.00	.00	.00
9	.00	126	12	139	49	73	18	1.6	4.1	.00	.00	.00
10	.00	60	11	108	56	60	16	1.2	3.4	.00	.00	.00
11	.00	36	9.8	150	47	54	14	1.3	2.6	.00	.00	.00
12	.00	49	10	174	41	232	12	1.3	2.0	.00	.00	.00
13	.00	243	15	152	494	154	11	1.1	1.3	81	.00	.00
14	.00	103	17	185	1040	115	11	.88	1.1	25	.00	.00
15	.00	59	18	140	886	127	18	.72	11	8.9	.00	.00
16	.00	41	54	124	2540	99	20	.47	6.2	4.4	.00	.00
17	.00	28	e113	161	739	82	14	.24	3.8	3.0	.00	.00
18	.00	21	e94	181	326	72	11	.13	2.8	2.0	.86	.00
19	.00	16	e82	188	208	63	8.8	.19	2.0	1.3	2.2	.00
20	.00	12	e69	147	150	55	8.2	.01	1.5	.46	2.0	.00
21	.00	9.2	e61	115	115	47	6.9	23	1.0	.25	1.3	.00
22	.00	7.8	e51	91	93	40	5.8	34	.62	.11	.14	.00
23	.00	14	e44	75	77	35	6.8	22	.34	.00	.00	.00
24	.00	1520	e40	64	82	30	8.6	14	.09	.00	.00	.00
25	.00	843	e37	53	121	25	7.8	9.0	.01	.00	.00	.00
26	.00	262	e54	46	94	22	6.4	5.6	.00	.00	.00	.00
27	.00	147	125	40	116	19	5.2	4.0	.00	.05	.00	.00
28	.00	100	122	34	168	20	4.4	4.0	.00	7.4	.00	.00
29	.00	73	107	177	---	47	3.9	5.6	1.4	14	.00	.00
30	.00	55	e105	228	---	65	3.5	38	1.4	2.8	.00	.00
31	.00	---	e79	144	---	54	---	43	---	1.9	.00	---
TOTAL	0.00	4039.01	1526.8	3647	7963	2865	477.3	229.24	145.76	158.38	9.40	0.00
MEAN	.000	135	49.3	118	284	92.4	15.9	7.39	4.86	5.11	.30	.000
MAX	.00	1520	125	228	2540	352	46	43	30	81	2.2	.00
MIN	.00	.00	9.8	34	39	19	3.5	.01	.00	.00	.00	.00
AC-FT	.00	8010	3030	7230	15790	5680	947	455	289	314	19	.00
CFSM	.00	2.92	1.07	2.55	6.17	2.00	.35	.16	.11	.11	.01	.00
IN.	.00	3.26	1.23	2.94	6.43	2.31	.39	.18	.12	.13	.01	.00

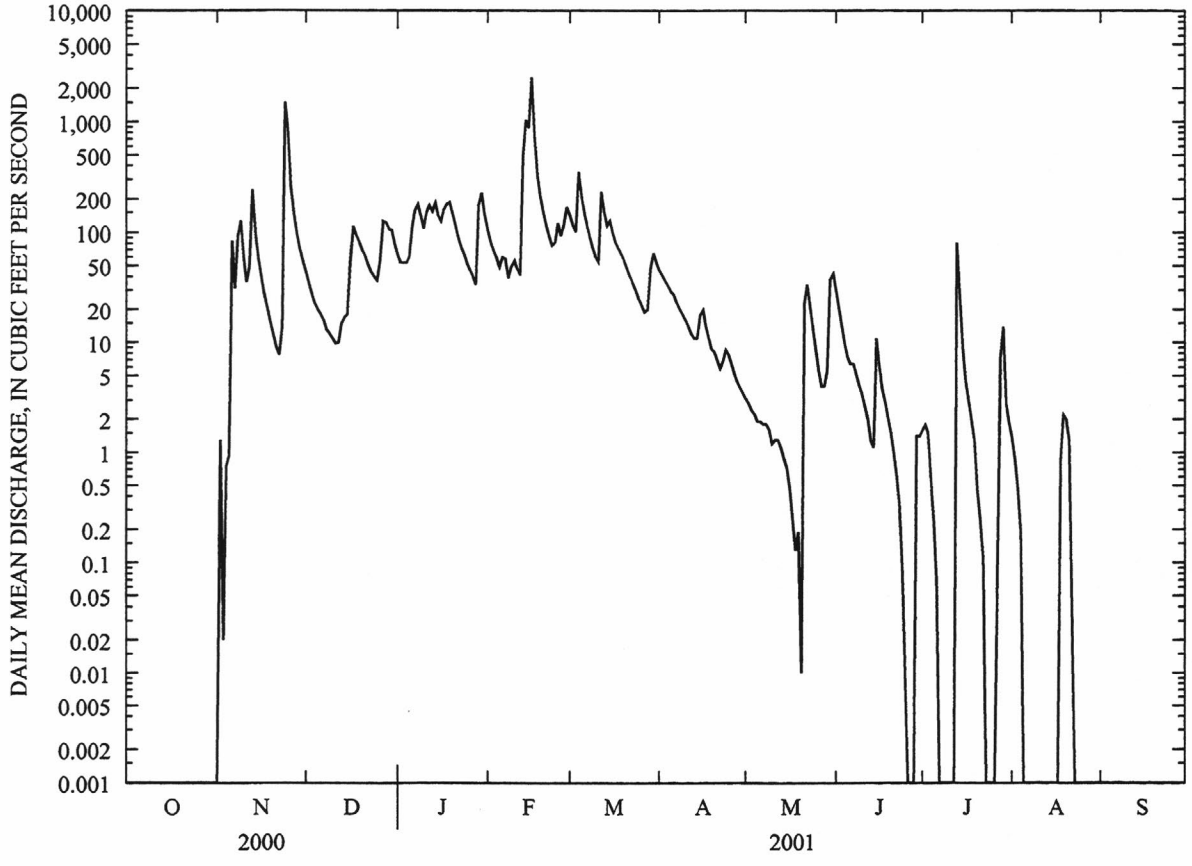
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

MEAN	20.3	65.8	105	116	115	121	106	60.4	21.1	8.60	1.83	2.02
MAX	85.9	265	222	228	284	256	247	257	69.3	47.3	12.9	10.7
(WY)	1991	1997	1992	1991	2001	1990	1991	1990	2000	1994	1992	1991
MIN	.000	2.88	3.53	44.6	13.9	39.4	8.26	1.20	.68	.016	.000	.000
(WY)	1993	2000	1990	1996	1996	1996	1992	1992	1998	1990	1990	1993

07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001	
ANNUAL TOTAL	14661.22		21060.89			
ANNUAL MEAN	40.1		57.7		61.7	
HIGHEST ANNUAL MEAN					91.9	1990
LOWEST ANNUAL MEAN					23.8	1996
HIGHEST DAILY MEAN	1520	Nov 24	2540	Feb 16	2620	Dec 3 1993
LOWEST DAILY MEAN	.00	Jul 24	.00	Oct 1	.00	Jul 4 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 24	.00	Oct 1	.00	Jul 4 1990
MAXIMUM PEAK FLOW			4510	Feb 16	6450	Dec 3 1993
MAXIMUM PEAK STAGE			10.69	Feb 16	12.19	Dec 3 1993
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	29080		41770		44670	
ANNUAL RUNOFF (CFSM)	.87		1.25		1.34	
ANNUAL RUNOFF (INCHES)	11.83		16.99		18.17	
10 PERCENT EXCEEDS	86		126		141	
50 PERCENT EXCEEDS	14		7.8		12	
90 PERCENT EXCEEDS	.00		.00		.00	

[e]Estimated



07263295 MAUMELLE RIVER AT WILLIAMS JUNCTION--CONTINUED

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS (00400)
JUL 02...	0715	81213	80513	1.6	20	6.8	760	5.3	64	7.1

DATE	SPECIFIC CONDUCTANCE US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
JUL 02...	34	24.6	12	2.00	1.60	.70	.2	1.6	22	12

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS MG) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUL 02...	2.7	<.1	2.9	1.1	.03	.10	22	20	.006

DATE	NITROGEN, AMORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, DISSOLVED (MG/L AS N) (00631)	NITROGEN, DISSOLVED (MG/L AS N) (00613)	NITROGEN ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON ORGANIC DISSOLVED (MG/L AS C) (00681)
JUL 02...	.38	.01	.023	<.001	.37	.40	<.001	.020	3.2

DATE	CARBON ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	IRON, DISSOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JUL 02...	2.4	140	440	400	950	30.0	67	76	23	.10

Remark codes used in this report:
< -- Less than

072632965 LAKE MAUMELLE WEST OF HWY 10 BRIDGE NEAR WYE

LOCATION.--Lat 34°54'24, long 92°39'26", in NE1/4SE1/4 sec.25, T.3 N., R.16 W., Pulaski County, Hydrologic Unit 11110207, at on right bank 250 ft upstream from State Hwy 10 bridge, 4.1 mi south of Wye.

PERIOD OF RECORD.--July 1991 to October 1992, February 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
NOV												
01...	0936	80513	80513	14.0	--	1.50	773	--	--	--	--	--
01...	0938	80513	80513	14.0	.70	--	773	8.4	94	6.3	26	21.9
01...	0939	80513	80513	14.0	5.10	--	773	7.8	87	6.2	26	21.6
01...	0940	80513	80513	14.0	10.1	--	773	6.6	73	6.1	26	20.9
01...	0941	80513	80513	14.0	13.8	--	773	3.6	40	6.0	30	20.3
01...	0945	81213	80513	14.0	--	--	773	--	--	--	--	--

DATE	TIME	DEPTH TO BOTTOM OF SAMPLE INTERVAL FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NOV											
01...	0945	12	.00	5	4.9	7	19	.006	.43	.01	<.002

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
NOV											
01...	<.001	.42	<.001	.012	17	18	<1	E1	4.5	210	40

Remark codes used in this report:
< -- Less than
E -- Estimated value

072632966 LAKE MAUMELLE AT HWY 10 BRIDGE NEAR WYE

LOCATION.--Lat 34°54'24, long 92°39'26", in NE1/4SE1/4 sec.25, T.3 N., R.16 W., Pulaski County, Hydrologic Unit 11110207, at on right bank 250 ft upstream from State Hwy 10 bridge, 4.1 mi south of Wye.

PERIOD OF RECORD.--July 1991 to October 1992, February 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
JUL 02...	0815	81213	80513	15	5	5.6	760	6.1	78	7.2	28

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
JUL 02...	27.7	8	1.40	1.20	.70	.2	1.3	23	9	2.1

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS RESIDUE AT 180 DEG C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 02...	<.1	2.3	3.2	.03	.81	20	18	.004	.30

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
JUL 02...	.01	.003	<.001	.30	.30	<.001	.020	3.2	2.4

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	IRON, DISSOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JUL 02...	E17	E4	50	450	22.0	95	94	16	.65

Remark codes used in this report:
< -- Less than
E -- Estimated value

07263297 LAKE MAUMELLE EAST OF HWY 10 BRIDGE NEAR WYE

LOCATION.--Lat 34°52'31", long 92°38'53", in SW1/4NW1/4 sec.30, T.3 N., R.15 W., Pulaski County, Hydrologic Unit 11110207, downstream from bridge on State Highway 10, 4.3 mi south of Wye.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
NOV											
01...	0900	80513	80513	20.0	--	2.60	773	--	--	--	--
01...	0916	80513	80513	20.0	.70	--	773	8.1	91	6.2	26
01...	0917	80513	80513	20.0	5.10	--	773	7.9	88	6.2	26
01...	0918	80513	80513	20.0	10.0	--	773	7.6	84	6.2	26
01...	0919	80513	80513	20.0	15.0	--	773	6.6	73	6.1	26
01...	0920	80513	80513	20.0	19.8	--	773	6.3	69	6.0	27
01...	0925	81213	80513	20.0	--	--	773	--	--	--	--

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3) (00410)	SOLIDS RESIDUE AT 180 DEG, C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV									
01...	0916	21.6	--	--	--	--	--	--	--
01...	0917	21.4	--	--	--	--	--	--	--
01...	0918	21.2	--	--	--	--	--	--	--
01...	0919	20.9	--	--	--	--	--	--	--
01...	0920	20.8	--	--	--	--	--	--	--
01...	0925	--	18	.00	<5	3.2	7	18	.008

DATE	TIME	NITROGEN.AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO DISSOLVED (MG/L AS P) (00671)
NOV								
01...	0925	.40	.01	.004	<.001	.39	.40	<.001

DATE	TIME	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
NOV									
01...	0925	.010	14	14	E1	E7	4.4	180	41

Remark codes used in this report:
< -- Less than
E -- Estimated value

07263299 LAKE MAUMELLE NEAR LITTLE ITALY

LOCATION.--Lat 34°43'34", long 92°34'34", in SW1/4NW1/4 sec.26, T.3 N., R.15 W., Pulaski County, Hydrologic Unit 11110207, on Lake Maumelle 4.0 mi southwest of Little Italy.

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

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
NOV											
01...	0825	80513	80513	34.0	--	2.80	773	--	--	--	--
01...	0831	80513	80513	34.0	.90	--	773	9.2	102	6.6	26
01...	0832	80513	80513	34.0	5.00	--	733	9.1	107	6.6	26
01...	0833	80513	80513	34.0	10.1	--	773	8.8	98	6.5	26
01...	0834	80513	80513	34.0	15.0	--	773	7.7	84	6.4	26
01...	0835	80513	80513	34.0	20.0	--	773	5.6	61	6.2	27
01...	0836	80513	80513	34.0	25.0	--	773	4.9	53	6.1	28
01...	0837	80513	80513	34.0	30.1	--	773	4.6	50	6.1	28
01...	0838	80513	80513	34.0	33.6	--	773	4.3	46	6.0	28
01...	0840	81213	80513	34.0	--	--	773	--	--	--	--

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3) (00410)	SOLIDS RESIDUE AT 180 DEG, C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV									
01...	0825	21.2	--	--	--	--	--	--	--
01...	0831	21.3	--	--	--	--	--	--	--
01...	0832	21.1	--	--	--	--	--	--	--
01...	0833	20.3	--	--	--	--	--	--	--
01...	0834	19.6	--	--	--	--	--	--	--
01...	0835	19.5	--	--	--	--	--	--	--
01...	0836	19.4	--	--	--	--	--	--	--
01...	0840	--	33	.00	<5	.8	7	19	.014

DATE	TIME	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS DISSOLVED (MG/L AS P) (00665)
NOV									
01...	0925	.38	.02	.004	<.001	.37	.38	<.001	.005

DATE	TIME	CARBON, ORGANIC DISSOLVED MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
NOV								
01...	0925	9.8	14	<1	<1	3.5	50	52

Remark codes used in this report:
< -- Less than
E -- Estimated value

072632995 LAKE MAUMELLE NEAR NATURAL STEPS

LOCATION.--Lat 34°51'39, long 92°30'07", in NE1/4NW1/4 sec.33, T.3 N., R.14 W., Pulaski County, Hydrologic Unit 11110207, at dam on Lake Maumelle, at Natural Steps.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
NOV											
01...	0730	80513	80513	40.0	--	2.90	773	--	--	--	--
01...	0734	80513	80513	40.0	.70	--	733	9.2	109	6.8	27
01...	0735	80513	80513	40.0	5.00	--	773	9.2	103	6.8	27
01...	0736	80513	80513	40.0	10.0	--	773	9.3	103	6.8	27
01...	0737	80513	80513	40.0	15.1	--	773	8.2	89	6.7	27
01...	0738	80513	80513	40.0	20.1	--	773	5.9	64	6.5	28
01...	0739	80513	80513	40.0	25.1	--	773	4.8	52	6.4	29
01...	0740	80513	80513	40.0	30.1	--	773	4.4	47	6.3	30
01...	0741	80513	80513	40.0	35.0	--	773	4.1	44	6.2	31
01...	0742	80513	80513	40.0	40.1	--	773	3.6	39	6.2	32
01...	0750	81213	80513	40.0	--	--	773	--	--	--	--
01...	0755	81213	80513	40.0	--	--	773	--	--	--	--

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV										
01...	0734	21.2	--	--	--	--	--	--	--	--
01...	0735	21.2	--	--	--	--	--	--	--	--
01...	0736	21.2	--	--	--	--	--	--	--	--
01...	0737	20.1	--	--	--	--	--	--	--	--
01...	0738	19.8	--	--	--	--	--	--	--	--
01...	0739	19.6	--	--	--	--	--	--	--	--
01...	0740	19.6	--	--	--	--	--	--	--	--
01...	0741	19.5	--	--	--	--	--	--	--	--
01...	0742	19.5	--	--	--	--	--	--	--	--
01...	0750	--	15	.00	<5	.6	9	1.30	1.40	.70
01...	0755	--	32	18	<5	1.2	10	1.40	1.50	.80

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	SODIUM DISSOLVED (MG/L AS N) (00930)	SODIUM PERCENT (00932)	ANC-WATER UNFLTRD FET MG/L AS CAC03 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS DISSOLVED (TONS PER AC-FT) (70303)
NOV										
01...	0750	.2	1.5	25	8	2.3	<.1	4.6	3.1	.03
01...	0755	.2	1.5	23	8	2.3	<.1	4.9	3.1	.03

DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
NOV									
01...	0750	22	20	.009	.34	.01	<.002	.003	.001
01...	0755	23	20	.032	.42	.04	.006	--	<.001

DATE	TIME	NITROGEN-ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN-TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 (COLS./100 ML) (31625)
NOV								
01...	0750	.33	--	.005	<.001	11	12	<1
01...	0755	.39	.43	.007	<.001	10	12	<1

072632995 LAKE MAUMELLE NEAR NATURAL STEPS--CONTINUED

DATE	TIME	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY RECOV-ERABLE (UG/L AS HG) (71900)
NOV								
01...	0750	<1	4.2	M	20	<1.0	24	<.10
01...	0755	--	--	M	70	67	190	<.10

Remark codes used in this report:
< -- Less than
Null value remark codes used in this report:
M -- Presence verified, not quantified

07263300 MAUMELLE RIVER AT MAUMELLE DAM AT NATURAL STEPS

LOCATION.--Lat 34°51'50, long 92°29'04", in SW1/4SE1/4 sec.27, T.3 N., R.14 W., Pulaski County, Hydrologic Unit 11110207, at right bank 100 ft upstream from spillway, 0.5 mi west of Natural Steps.

DRAINAGE AREA.--137 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

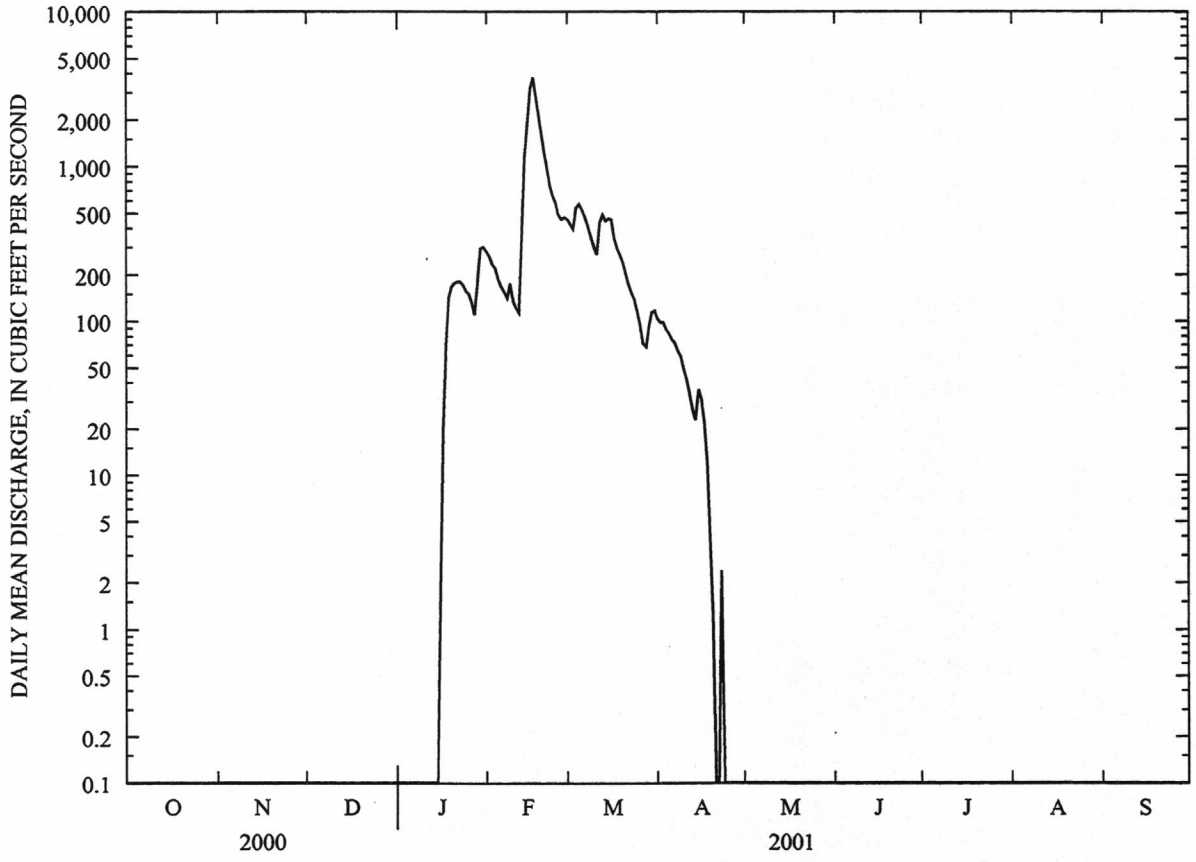
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	281	458	104	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	261	425	98	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	233	395	98	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	219	542	88	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	187	574	83	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	168	526	76	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	155	473	72	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	141	418	64	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	177	358	59	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	134	305	49	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	121	269	42	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	113	436	34	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	348	488	27	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	1150	447	23	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	1840	462	36	.00	.00	.00	.00	.00
16	.00	.00	.00	.75	3210	456	31	.00	.00	.00	.00	.00
17	.00	.00	.00	20	3770	342	22	.00	.00	.00	.00	.00
18	.00	.00	.00	71	2830	296	12	.00	.00	.00	.00	.00
19	.00	.00	.00	142	2110	267	4.1	.00	.00	.00	.00	.00
20	.00	.00	.00	169	1610	239	1.2	.00	.00	.00	.00	.00
21	.00	.00	.00	178	1230	203	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	181	971	175	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	181	754	153	2.4	.00	.00	.00	.00	.00
24	.00	.00	.00	173	649	139	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	158	585	116	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	150	490	95	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	133	457	72	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	110	471	68	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	181	---	93	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	295	---	114	.00	.00	.00	.00	.00	.00
31	.00	---	.00	302	---	117	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	2444.75	24665	9521	1025.70	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	78.9	881	307	34.2	.000	.000	.000	.000	.000
MAX	.00	.00	.00	302	3770	574	104	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	113	68	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	4850	48920	18880	2030	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

MEAN	.000	63.0	227	200	311	363	266	190	46.8	12.1	4.57	.000
MAX	.000	435	840	836	881	947	642	546	198	86.3	53.1	.000
(WY)	1990	1997	1992	1991	2001	1997	1991	1990	1992	1994	1992	1989
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1990	1990	1990	1990	1996	1996	1996	1992	1998	1990	1990	1989

07263300 MAUMELLE RIVER AT MAUMELLE DAM AT NATURAL STEPS--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001	
ANNUAL TOTAL	2870.90		37656.45			
ANNUAL MEAN	7.84		103		140	
HIGHEST ANNUAL MEAN					274	1997
LOWEST ANNUAL MEAN					7.84	2000
HIGHEST DAILY MEAN	423	Jun 23	3770	Feb 17	3770	Feb 17 2001
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Aug 17 1989
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Aug 17 1989
MAXIMUM PEAK FLOW			4210	Feb 16	4210	Feb 16 2001
MAXIMUM PEAK STAGE			92.83	Feb 16	92.83	Feb 16 2001
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	5690		74690		101100	
10 PERCENT EXCEEDS	.00		274		439	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	



07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, Hydrologic Unit 11110207, in metal shelter on dam and at mile 141.5.

DRAINAGE AREA.--158,030 mi^2, of which 22,241 mi^2 is probably noncontributing.

PERIOD OF RECORD.--September 1927 to current year. Prior to October 1969, published as "07263500 Arkansas River at Little Rock." Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected at or near former site since 1873 are contained in reports of National Weather Service. Gage-height records collected since 1883 at site 5.5 mi downstream, and intermittent records of discharge since 1885 are contained in reports of Mississippi River Commission.

GAGE.--Water-stage and gate-position recorder. Datum of gage is at sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, Oct. 1, 1934, to May 9, 1970, recording gage at site 6.2 mi downstream at datum 223.61 ft higher. Sept. 20, 1968, to May 9, 1970, auxiliary water-stage recorder 5.5 mi upstream from former gage.

REMARKS.--Records good except discharges below 10,000 ft^3/s, which are fair. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated upstream by many locks, dams, and reservoirs. On Oct. 7, 1988, the North Little Rock Electric Department hydroplant began operation, and discharges at the hydroplant are added to flows from the lock and dam. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1833 reached a stage of 34.6 ft, at former site and datum. Flood of Apr. 20, 1927, reached a stage of 33.0 ft, at former site and datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11600	14200	37900	23700	114000	148000	43300	6300	e120000	50500	17400	4200
2	5050	5260	32700	23000	110000	151000	29200	26900	144000	48200	12100	798
3	4760	20200	34400	16400	77800	154000	27500	11000	98500	23100	8800	666
4	4250	15000	26800	26500	70400	167000	30600	12500	77400	e26800	1550	2860
5	6800	7990	33700	32400	78100	173000	36300	11400	77800	e44000	1080	1010
6	20400	31000	24600	21500	75300	174000	58300	15200	78800	e20300	5010	629
7	4050	64200	22800	27600	73100	169000	60000	5470	90400	2350	14500	1430
8	523	57900	24300	25500	68500	167000	57300	3580	87600	15000	28800	3510
9	2430	33000	18600	20400	65800	164000	44200	7380	80200	24900	10300	14100
10	4680	34700	12500	37100	68000	163000	22500	6440	69000	20300	3740	8690
11	7440	43500	7400	43200	66300	159000	27000	10100	44300	14400	110	83
12	5960	52100	10300	53300	66600	163000	29700	12100	57600	25400	96	1430
13	3590	57200	21300	55400	70000	163000	16300	22600	61300	8150	3910	2580
14	4210	53600	3660	48800	90800	162000	14400	6560	59400	5940	15200	3960
15	4570	36400	9180	48900	104000	162000	33100	13300	52400	6110	8710	4080
16	4580	12300	14500	34200	159000	154000	43300	2310	62200	10700	8700	1040
17	4590	25100	25900	39600	220000	144000	18700	22900	64600	8030	10100	602
18	3090	30900	20300	46100	227000	139000	26500	21600	55800	13500	10300	5040
19	2550	25200	20900	46500	179000	118000	46600	18600	36800	8460	11300	14300
20	6980	4780	21100	47500	158000	103000	43800	36400	48800	16700	14100	13600
21	9000	12900	10100	33900	145000	99700	22500	53900	55000	18800	6790	5170
22	4700	21000	21200	16100	120000	101000	35300	71100	57200	8840	8150	4610
23	3810	10900	15500	34400	107000	99100	18300	81800	51200	12800	16200	3650
24	12700	25500	12600	31200	113000	86700	16000	49600	46900	7290	6730	8620
25	5830	65400	8620	27600	136000	86400	19900	35800	54700	15300	7980	9450
26	2820	82000	10000	35000	163000	79500	26000	e32000	59200	9990	2700	11200
27	5210	48600	27600	15900	169000	75900	25900	e31000	62100	427	888	11600
28	4730	36400	44200	6460	156000	75800	23400	e35000	49700	1280	143	8740
29	3090	38600	53800	20300	---	74400	41200	e31000	38000	1180	862	7140
30	8060	34000	43000	74300	---	55800	3350	e42000	36200	8950	490	4710
31	9380	---	39900	101000	---	52500	---	e80000	---	15900	1750	---

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK--CONTINUED

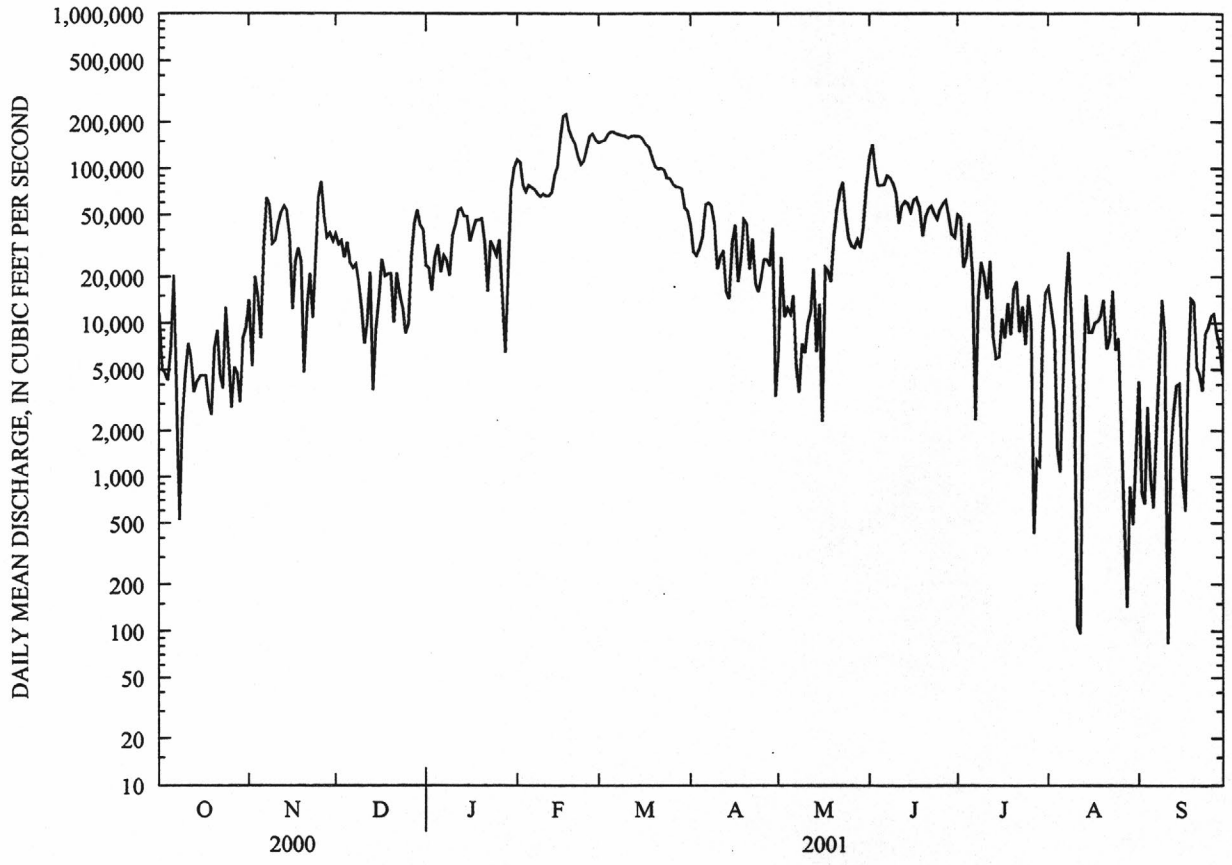
TOTAL	181433	999830	709360	1113760	3250700	3983800	940450	815840	1977100	493597	238489	159498
MEAN	5853	33330	22880	35930	116100	128500	31350	26320	65900	15920	7693	5317
MAX	20400	82000	53800	101000	227000	174000	60000	81800	144000	50500	28800	14300
MIN	523	4780	3660	6460	65800	52500	3350	2310	36200	427	96	83
AC-FT	359900	1983000	1407000	2209000	6448000	7902000	1865000	1618000	3922000	979000	473000	316400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	28900	47610	53040	46120	49240	76740	77400	77890	68730	34640	16410	15570
MAX	215100	176000	155400	161800	116100	169500	215900	234800	191600	117100	62730	51690
(WY)	1987	1975	1993	1998	2001	1987	1973	1990	1995	1999	1992	1989
MIN	1466	2615	3714	1439	9340	9986	7971	18460	4994	4954	4130	3172
(WY)	1979	1981	1990	1981	1981	1972	1981	1977	1988	1991	1991	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	13184799		14863857			
ANNUAL MEAN	36020		40720		[a]49330	
HIGHEST ANNUAL MEAN					96810	1993
LOWEST ANNUAL MEAN					12880	1981
HIGHEST DAILY MEAN	186000	Jun 24	227000	Feb 18	404000	May 8 1990
LOWEST DAILY MEAN	523	Oct 8	83	Sep 11	[b]14	Oct 25 1978
ANNUAL SEVEN-DAY MINIMUM	3880	Oct 13	1270	Aug 28	432	Oct 15 1982
INSTANTANEOUS PEAK FLOW			238000	Feb 17	[c]406000	May 7 1990
INSTANTANEOUS PEAK STAGE			245.68	Feb 17	[d]256.97	May 7 1990
ANNUAL RUNOFF (AC-FT)	26150000		29480000		35730000	
10 PERCENT EXCEEDS	87600		105000		133000	
50 PERCENT EXCEEDS	23000		24600		30600	
90 PERCENT EXCEEDS	4690		3630		3970	

[a]Prior to regulation, water years 1928-69, 39,920 ft^3/s
[b]Also minimum daily discharge for period of record
[c]Maximum discharge for period of record, 536,000 ft^3/s May 27,1943
[d]Maximum gage height for period of record, 30.05 ft, May 27, 1943, at site and datum then in use
[e]Estimated



07263580 ROCK CREEK AT 36TH STREET AT LITTLE ROCK

LOCATION.--Lat 34°43'14, long 92°21'35", in NW1/4SW1/4 sec.13, T.1 N., R.13 W., Pulaski County, Hydrologic Unit 11110207, at West 36th Street bridge in Little Rock.

DRAINAGE AREA.--20.5 mi^2.

PERIOD OF RECORD.--October 1996 to current year. Daily stages and results of discharge measurements for March 1970 to March 1978 are in the files of the U.S. Army Corps of Engineers. Annual peak stages and discharges for 1978-88 and 1995-96 are published in the annual reports of the U.S. Geological Survey. Daily stages for the 1989-94 water year are in the files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 260.00 ft above sea level.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 13, 1978, reached a stage of 18.22 ft, discharge, 22,500 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	5.5	10	17	21	34	13	4.4	15	19	41	20
2	1.3	103	8.4	11	15	e24	10	2.5	8.3	12	7.8	12
3	1.1	18	e6.8	7.9	13	e36	9.7	1.8	6.1	8.4	3.7	4.0
4	1.1	87	6.3	7.9	12	111	9.1	1.6	5.1	5.0	2.6	2.6
5	1.0	24	5.4	12	11	36	9.1	4.7	13	3.0	1.9	33
6	36	67	5.4	12	9.1	e25	8.2	10	25	13	1.4	18
7	8.0	29	4.8	12	8.6	e21	7.4	19	16	3.7	8.6	6.2
8	2.2	218	4.6	15	8.1	e17	6.3	13	9.1	1.7	3.1	57
9	1.3	61	4.2	12	19	e14	6.5	5.7	6.0	1.3	16	132
10	1.0	23	4.2	8.5	13	e12	6.2	3.6	4.0	1.2	119	23
11	.84	15	4.2	50	13	e39	8.7	4.5	3.1	1.2	192	7.5
12	.84	69	3.6	29	13	185	5.8	7.7	2.3	1.1	39	5.4
13	1.3	84	44	40	327	42	12	4.0	2.3	146	16	3.6
14	1.7	25	34	51	146	32	20	2.7	7.1	19	9.3	2.9
15	4.0	17	56	27	132	74	41	2.2	80	5.7	6.5	1.9
16	1.4	34	93	21	477	31	15	2.3	15	2.7	5.9	1.4
17	1.3	15	46	69	90	e25	9.0	1.9	7.7	2.0	4.5	1.4
18	1.1	12	26	71	43	e21	6.1	2.5	5.4	1.4	17	2.8
19	1.8	7.7	19	62	30	e18	5.2	2.9	3.9	.99	7.5	20
20	2.9	6.0	16	32	23	e15	4.4	3.0	3.0	.83	3.0	6.4
21	3.0	4.8	14	24	e19	e12	4.8	113	2.5	.71	2.6	3.5
22	3.5	4.2	12	19	e16	11	3.5	29	2.2	.93	1.9	2.7
23	6.0	92	12	16	e13	9.4	31	11	1.9	.47	1.4	2.0
24	11	534	11	13	e102	8.5	13	15	1.7	.44	1.6	15
25	12	118	9.0	11	55	7.1	7.5	6.6	1.6	.56	2.8	2.0
26	9.6	42	64	10	27	6.3	5.5	5.1	1.2	36	1.8	1.3
27	24	27	75	8.7	98	6.0	4.4	4.0	100	183	2.0	1.1
28	14	20	44	8.7	64	15	4.9	26	30	71	1.8	.93
29	5.0	16	34	128	---	34	4.1	52	11	14	2.1	.59
30	5.5	12	24	49	---	21	3.7	51	37	6.4	1.9	.41
31	7.6	---	21	27	---	16	---	30	---	30	20	---
TOTAL	173.18	1790.2	721.9	881.7	1817.8	958.3	295.1	442.7	426.5	592.73	545.7	390.63
MEAN	5.59	59.7	23.3	28.4	64.9	30.9	9.84	14.3	14.2	19.1	17.6	13.0
MAX	36	534	93	128	477	185	41	113	100	183	192	132
MIN	.84	4.2	3.6	7.9	8.1	6.0	3.5	1.6	1.2	.44	1.4	.41
AC-FT	344	3550	1430	1750	3610	1900	585	878	846	1180	1080	775
CFSM	.27	2.91	1.14	1.39	3.17	1.51	.48	.70	.69	.93	.86	.64
IN.	.31	3.25	1.31	1.60	3.30	1.74	.54	.80	.77	1.08	.99	.71

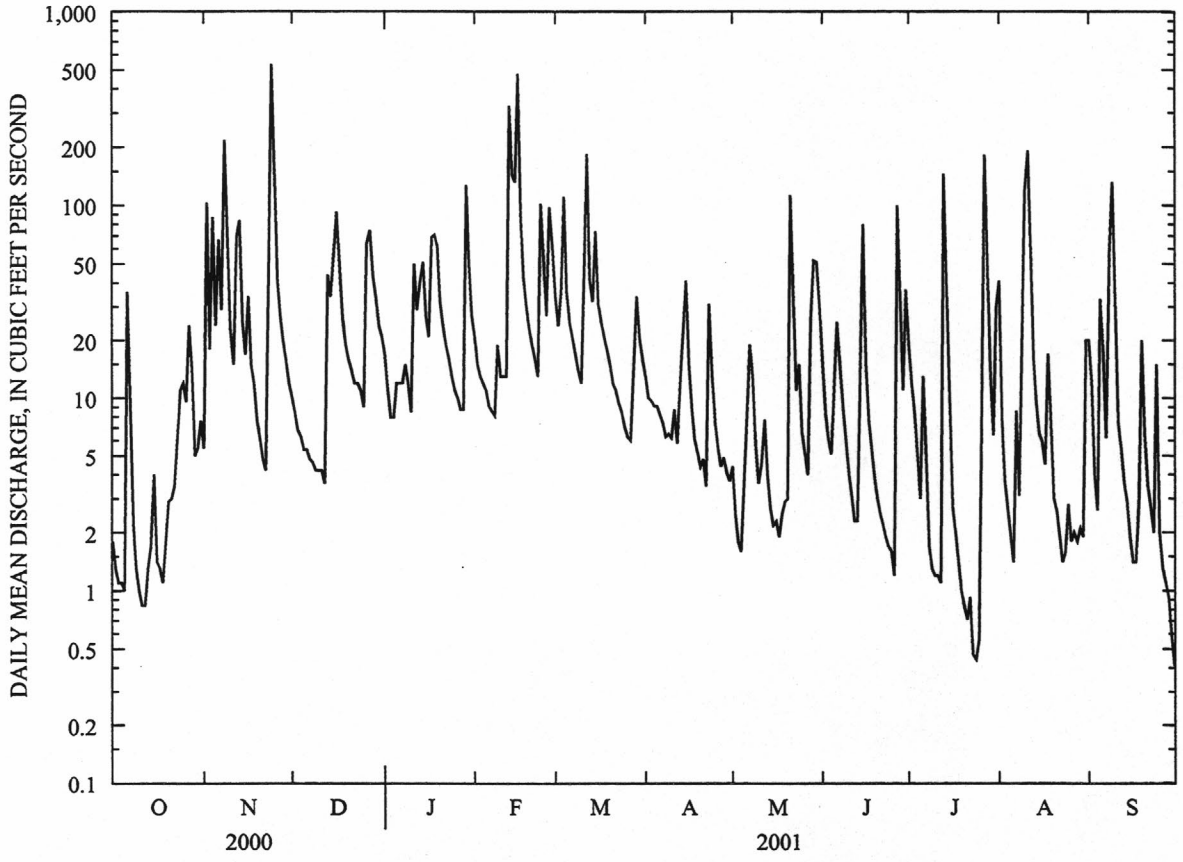
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	25.5	43.2	33.1	37.3	50.2	49.9	30.3	14.1	20.4	12.8	10.6	17.1
MAX	42.8	92.2	55.6	89.7	83.5	106	69.8	17.1	45.3	19.1	22.5	32.4
(WY)	1997	1997	1998	1998	1998	1997	1997	2000	1997	2001	1998	1997
MIN	5.59	5.71	19.0	5.76	14.2	18.8	9.84	12.3	7.03	1.82	1.48	4.27
(WY)	2001	2000	2000	2000	1999	2000	2001	1999	1998	2000	2000	1999

07263580 ROCK CREEK AT 36TH STREET AT LITTLE ROCK--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	5931.78		9036.44			
ANNUAL MEAN	16.2		24.8		28.6	
HIGHEST ANNUAL MEAN					46.8	1997
LOWEST ANNUAL MEAN					11.8	2000
HIGHEST DAILY MEAN	534	Nov 24	534	Nov 24	723	Feb 10 1998
LOWEST DAILY MEAN	.84	Oct 11	.41	Sep 30	.05	Oct 19 1996
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 9	.70	Jul 19	.08	Oct 14 1996
MAXIMUM PEAK FLOW			2120	Aug 10	[a]4650	Oct 27 1996
MAXIMUM PEAK STAGE			5.67	Aug 10	7.47	Oct 27 1996
INSTANTANEOUS LOW FLOW			.24	Jul 23,25	.05	Oct 18 1996
ANNUAL RUNOFF (AC-FT)	11770		17920		20680	
ANNUAL RUNOFF (CFSM)	.79		1.21		1.39	
ANNUAL RUNOFF (INCHES)	10.76		16.40		18.92	
10 PERCENT EXCEEDS	35		61		66	
50 PERCENT EXCEEDS	5.7		9.7		7.4	
90 PERCENT EXCEEDS	1.3		1.6		1.2	

[a]From rating curve extended above 1,400 ft^3/s
[e]Estimated



07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM BELOW LITTLE ROCK

(National radiochemical station)

(National stream-quality accounting network)

LOCATION.--Lat 34°40'07", long 92°09'18", in sec.35, T.1 N., R.11 W., Pulaski County, Hydrologic Unit 11110207, at upper end of upstream wall at David D. Terry Lock and Dam, 10.7 mi downstream from Main Street bridge at Little Rock, and at mile 124.2.

DRAINAGE AREA.--158,288 mi², of which 22,241 mi² is probably noncontributing.

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

INSTRUMENTATION.--Water-quality monitor October 1969 to September 1981.

REMARKS.--Discharge figures are for station 07263450, 16.8 mi upstream.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT											
02...	0930	80020	80513	3190	6.0	770	7.7	89	8.5	666	23.2
JAN											
23...	0950	80020	80513	36700	17	785	7.4	56	7.8	444	4.3
MAR											
20...	0950	80020	80513	106000	39	780	13.1	113	7.4	444	10.0
APR											
11...	0930	80020	80513	42800	23	769	9.2	96	7.9	571	18.0
MAY											
14...	1045	80020	80513	7040	19	779	6.6	78	7.7	630	24.7
JUN											
11...	0930	80020	80513	46100	--	758	6.8	84	7.9	392	26.3
JUL											
25...	0805	80020	80513	19800	--	771	6.4	86	8.2	569	31.6
AUG											
08...	0830	80020	80513	32700	--	775	5.5	73	7.9	552	31.3
22...	0820	80020	80513	3090	--	775	6.9	89	8.3	559	30.0
SEP											
13...	1030	80020	80513	2640	--	776	6.5	82	8.2	621	27.6

DATE	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKALINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
OCT											
02...	58	170	45.3	12.8	4.42	2	69.9	47	110	108	132
JAN											
23...	35	91	24.0	7.55	2.87	2	48.7	53	57	57	69
MAR											
20...	38	110	31.9	7.65	2.83	2	39.3	43	75	73	89
APR											
11...	50	130	37.6	9.04	2.87	2	56.7	48	85	81	99
MAY											
14...	60	140	39.3	10.5	3.40	3	70.2	51	85	82	100
JUN											
11...	35	94	25.3	7.34	3.02	2	38.2	46	59	58	71
JUL											
25...	49	140	37.0	10.3	3.94	2	57.4	47	87	86	105
AUG											
08...	45	130	35.9	9.88	3.49	2	53.3	46	87	86	105
22...	48	130	36.8	10.1	3.89	2	56.1	47	87	86	105
SEP											
13...	41	140	38.3	10.7	4.21	2	63.5	49	101	99	121

DATE	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT										
02...	.0	90.7	.2	1.5	72.4	.52	3260	379	363	<.020
JAN										
23...	.0	69.4	.2	5.1	38.9	.34	24500	247	234	<.041
MAR										
20...	.0	57.5	E.1	4.9	43.2	.36	76400	267	235	E.028
APR										
11...	.0	82.8	E.1	4.7	54.7	.43	36700	318	301	<.041
MAY										
14...	.0	95.4	.2	4.6	60.6	.49	6900	363	336	.076
JUN										
11...	.0	52.2	E.1	5.3	38.5	.30	27300	219	207	E.036
JUL										
25...	.0	83.7	.2	3.0	59.3	.42	16700	312	307	.053
AUG										
08...	.0	80.0	.2	4.4	56.9	.43	28000	317	296	<.040
22...	.0	82.4	.2	3.6	55.7	.43	2620	314	301	<.040
SEP										
13...	.0	91.8	.3	4.5	59.0	.48	2490	350	332	<.040

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM BELOW LITTLE ROCK--CONTINUED

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT										
02...	.38	.71	--	--	--	--	--	<.010	--	--
JAN										
23...	.32	.55	--	1.0	--	--	--	E.004	--	--
MAR										
20...	.30	.58	--	1.0	.707	3.13	.046	.014	--	--
APR										
11...	.32	.51	--	1.1	.797	3.53	.042	.013	--	--
MAY										
14...	.47	.46	.10	1.0	.547	2.42	.069	.021	.39	.39
JUN										
11...	.29	.43	--	.79	.495	2.19	.026	.008	--	--
JUL										
25...	.34	.64	.07	.39	--	--	--	E.004	.29	.59
AUG										
08...	.31	.63	--	--	--	--	--	E.003	--	--
22...	.32	.73	--	--	--	--	.026	.008	--	--
SEP										
13...	.34	.65	--	--	--	--	.039	.012	--	--

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)
OCT										
02...	--	.077	.038	.025	.108	8.0	--	--	6	.28
JAN										
23...	1.2	.083	.035	.027	.080	3.8	1.3	--	4	.18
MAR										
20...	1.3	.107	.043	.035	.111	4.0	1.3	--	3	.12
APR										
11...	1.3	.117	.048	.038	.084	4.3	1.1	9.4	--	--
MAY										
14...	1.0	.120	.049	.039	.081	3.5	E1.0	3.2	--	--
JUN										
11...	.93	.144	.056	.047	.120	--	.6	2.5	--	--
JUL										
25...	.69	.086	.035	.028	.100	--	1.0	8.8	--	--
AUG										
08...	--	.117	.049	.038	.098	3.5	1.7	13.8	2	.17
22...	--	.138	.058	.045	.104	4.6	2.7	24.8	--	--
SEP										
13...	--	.187	.028	.061	.120	3.9	1.9	15.7	--	--

DATE	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
OCT										
02...	3.7	83.5	<.06	72	.04	E.6	.23	4.1	<10	.13
JAN										
23...	.8	55.9	<.06	47	E.02	<.8	.14	2.4	20	.09
MAR										
20...	.8	60.9	<.06	35	E.03	<.8	.14	24.4	20	.53
APR										
11...	.9	--	--	40	--	--	--	--	10	--
MAY										
14...	1.1	--	--	44	--	--	--	--	<10	--
JUN										
11...	1.0	--	--	55	--	--	--	--	M	--
JUL										
25...	2.3	--	--	47	--	--	--	--	<10	--
AUG										
08...	3.0	75.1	<.06	48	.08	<.8	.13	1.5	<10	.09
22...	3.5	--	--	50	--	--	--	--	M	--
SEP										
13...	3.5	--	--	54	--	--	--	--	<10	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM BELOW LITTLE ROCK--CONTINUED

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
OCT											
02...	5.4	.7	1.8	1.33	<2.4	<1.0	407	<10.0	4	<.002	<.004
JAN											
23...	7.9	5.2	.8	1.26	E.3	<1.0	201	1.8	2	<.002	<.004
MAR											
20...	3.7	3.2	.7	1.54	.5	<1.0	221	1.3	14	<.002	<.004
APR											
11...	4.7	--	--	--	.6	--	316	1.7	--	<.002	<.004
MAY											
14...	4.3	--	--	--	.6	--	298	1.2	--	<.002	<.004
JUN											
11...	3.1	--	--	--	E.2	--	202	1.8	--	<.002	<.004
JUL											
25...	4.2	--	--	--	.4	--	305	2.6	--	<.002	<.004
AUG											
08...	4.0	.8	1.3	.30	.4	<1.0	305	2.8	2	<.002	<.004
22...	3.9	--	--	--	.4	--	308	2.9	--	<.002	<.004
SEP											
13...	4.6	--	--	--	E.2	--	326	2.9	--	<.002	<.004

DATE	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC GF, (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U REC GF, (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT											
02...	<.002	<.005	.391	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.063
JAN											
23...	<.002	<.005	.088	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011
MAR											
20...	<.002	<.005	.157	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.016
APR											
11...	<.002	<.005	.161	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.017
MAY											
14...	<.004	<.005	.194	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.015
JUN											
11...	<.002	<.005	.146	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.017
JUL											
25...	.010	<.005	.379	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.039
AUG											
08...	.006	<.005	.329	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.036
22...	<.002	<.005	.388	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.041
SEP											
13...	<.002	<.005	.360	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.041

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, RE (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
OCT										
02...	E.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
JAN										
23...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
MAR										
20...	E.002	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
APR										
11...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
MAY										
14...	E.003	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
JUN										
11...	.033	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
JUL										
25...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
AUG										
08...	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
22...	.008	<.005	<.021	<.002	<.009	<.005	<.003	<.050	<.006	<.027
SEP										
13...	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM BELOW LITTLE ROCK--CONTINUED

DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT										
02...	<.050	<.006	.071	<.006	<.002	<.007	<.003	<.007	<.002	<.010
JAN										
23...	<.050	<.006	.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010
MAR										
20...	<.050	<.006	.019	<.006	<.002	<.007	<.003	<.007	<.002	<.010
APR										
11...	<.050	<.006	.023	<.006	<.002	<.007	<.003	<.007	<.002	E.005
MAY										
14...	<.050	.008	.022	<.006	<.002	<.007	<.003	<.007	<.002	<.010
JUN										
11...	<.050	<.006	.031	<.006	<.002	<.007	<.003	<.007	<.002	<.010
JUL										
25...	<.050	<.006	.126	<.006	<.002	<.007	<.003	<.007	<.002	<.010
AUG										
08...	<.050	<.006	.073	<.006	<.002	<.007	<.003	<.007	<.002	<.010
22...	<.050	<.006	.065	<.006	<.002	<.007	<.003	<.007	<.002	<.010
SEP										
13...	<.050	<.006	.056	<.006	<.002	<.007	<.003	<.007	<.002	<.010

DATE	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
OCT										
02...	<.006	<.011	.017	<.004	<.010	<.011	<.023	.019	.032	<.034
JAN										
23...	<.006	<.011	E.003	<.004	<.010	<.011	<.023	.041	.019	<.034
MAR										
20...	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.031	E.009	<.034
APR										
11...	<.006	<.011	E.005	<.004	<.010	<.011	<.023	.013	E.011	<.034
MAY										
14...	<.006	<.011	E.006	<.004	<.010	<.011	<.023	.033	E.013	<.034
JUN										
11...	<.006	<.011	E.011	<.004	<.010	<.011	<.023	.023	.031	<.034
JUL										
25...	<.006	<.011	E.008	<.004	<.010	<.011	<.023	.015	.017	<.034
AUG										
08...	<.006	<.011	E.009	<.004	<.010	<.011	<.023	.015	E.021	<.034
22...	<.006	<.011	E.015	<.004	<.010	<.011	<.023	.012	.019	<.034
SEP										
13...	<.006	<.011	.018	<.004	<.010	<.011	<.023	.013	.018	<.034

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
02...	<.017	<.005	<.002	<.009	92	12	103
JAN							
23...	<.017	<.005	<.002	<.009	96	12	1190
MAR							
20...	<.017	<.005	<.002	<.009	94	47	13500
APR							
11...	<.017	<.005	<.002	<.009	91	22	2540
MAY							
14...	<.017	<.005	<.002	<.009	94	13	247
JUN							
11...	<.017	<.005	<.002	<.009	99	40	4980
JUL							
25...	<.017	<.005	<.002	<.009	85	15	802
AUG							
08...	<.017	<.005	<.002	<.009	100	11	971
22...	<.017	<.005	<.002	<.009	100	5	42
SEP							
13...	<.017	<.005	<.002	<.009	90	14	100

Remark codes used in this report:
< -- Less than
E -- Estimated value
Null value remark codes used in this report:
M -- Presence verified, not quantified

07264000 BAYOU METO NEAR LONOKE

LOCATION.--Lat 34°44'13", long 91°54'58", in SW 1/4 sec.6, T.1 N., R.8 W., Lonoke County, Hydrologic Unit 08020402, near left bank on downstream side of bridge on State Highway 31, 3.0 mi upstream from Brushy Slough, 3.5 mi south of Lonoke, and at mile 106.4.

DRAINAGE AREA.--207 mi^2.

PERIOD OF RECORD.--October 1954 to current year. Gage-height records and results of discharge measurements since June 1948 at site 4.8 mi upstream are contained in reports of U.S. Army Corps of Engineers, Vicksburg District; published as "Big Bayou Meto near Lonoke".

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 199.11 ft above sea level. Prior to Feb. 10, 1955, water-stage recorder at site 4.8 mi upstream at datum 6.97 ft higher. Feb. 10 to June 29, 1955 nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	.84	1300	455	457	1590	203	18	12	1.3	28	11
2	11	1.8	1190	410	518	1480	221	14	14	1.4	21	12
3	7.9	2.8	1000	335	498	1360	211	13	15	.13	12	11
4	8.8	4.8	736	259	417	1290	192	22	11	.88	11	11
5	7.7	8.8	468	209	325	1200	171	27	12	2.4	9.0	9.0
6	3.7	8.2	295	189	256	1120	157	28	6.7	2.5	5.0	6.1
7	6.0	9.3	186	182	219	1070	147	24	4.3	4.1	.85	5.8
8	6.5	21	135	182	190	1040	134	21	.70	3.3	4.4	6.2
9	6.1	91	115	179	170	970	130	21	4.2	.97	.20	7.5
10	5.4	205	99	171	156	831	120	25	3.1	2.6	2.6	6.6
11	4.9	237	86	165	142	660	105	16	1.9	.65	3.0	8.3
12	4.5	192	80	173	136	690	97	8.6	1.3	3.2	23	10
13	3.6	145	93	192	300	780	91	5.9	.38	11	89	13
14	3.8	138	149	247	732	849	90	5.9	2.7	14	105	13
15	4.3	158	213	307	1110	1010	98	6.6	1.9	33	87	11
16	3.4	165	520	353	1620	1130	99	2.3	21	53	60	9.7
17	.96	128	711	390	2180	1150	105	1.6	41	37	40	8.8
18	.80	84	761	424	2780	1120	118	4.9	47	25	30	9.0
19	1.2	51	763	495	3240	1020	117	.32	38	14	19	8.2
20	1.3	32	756	570	3490	870	107	1.1	24	14	12	7.2
21	1.5	23	708	604	3470	680	96	3.5	14	11	8.8	7.0
22	1.6	19	603	614	3240	489	86	6.3	8.2	7.6	4.5	9.6
23	1.3	18	452	565	2870	374	78	9.8	1.3	6.8	5.3	11
24	1.5	353	340	464	2460	289	62	30	.91	2.5	2.0	13
25	2.0	773	251	372	2210	226	57	40	1.4	1.8	3.0	13
26	2.4	972	196	290	1970	185	53	30	3.3	.93	6.8	17
27	2.7	1070	187	238	1790	163	49	20	2.9	2.4	7.2	18
28	3.8	1170	220	212	1700	148	47	13	2.2	1.9	5.7	17
29	1.8	1290	320	228	---	140	40	10	1.6	5.7	9.5	15
30	.99	1340	413	301	---	133	27	13	2.2	27	7.7	13
31	.92	---	457	370	---	158	---	13	---	32	5.4	---
TOTAL	126.37	8711.54	13803	10145	38646	24215	3308	454.82	300.19	324.06	627.95	318.0
MEAN	4.08	290	445	327	1380	781	110	14.7	10.0	10.5	20.3	10.6
MAX	14	1340	1300	614	3490	1590	221	40	47	53	105	18
MIN	.80	.84	80	165	136	133	27	.32	.38	.13	.20	5.8
AC-FT	251	17280	27380	20120	76650	48030	6560	902	595	643	1250	631

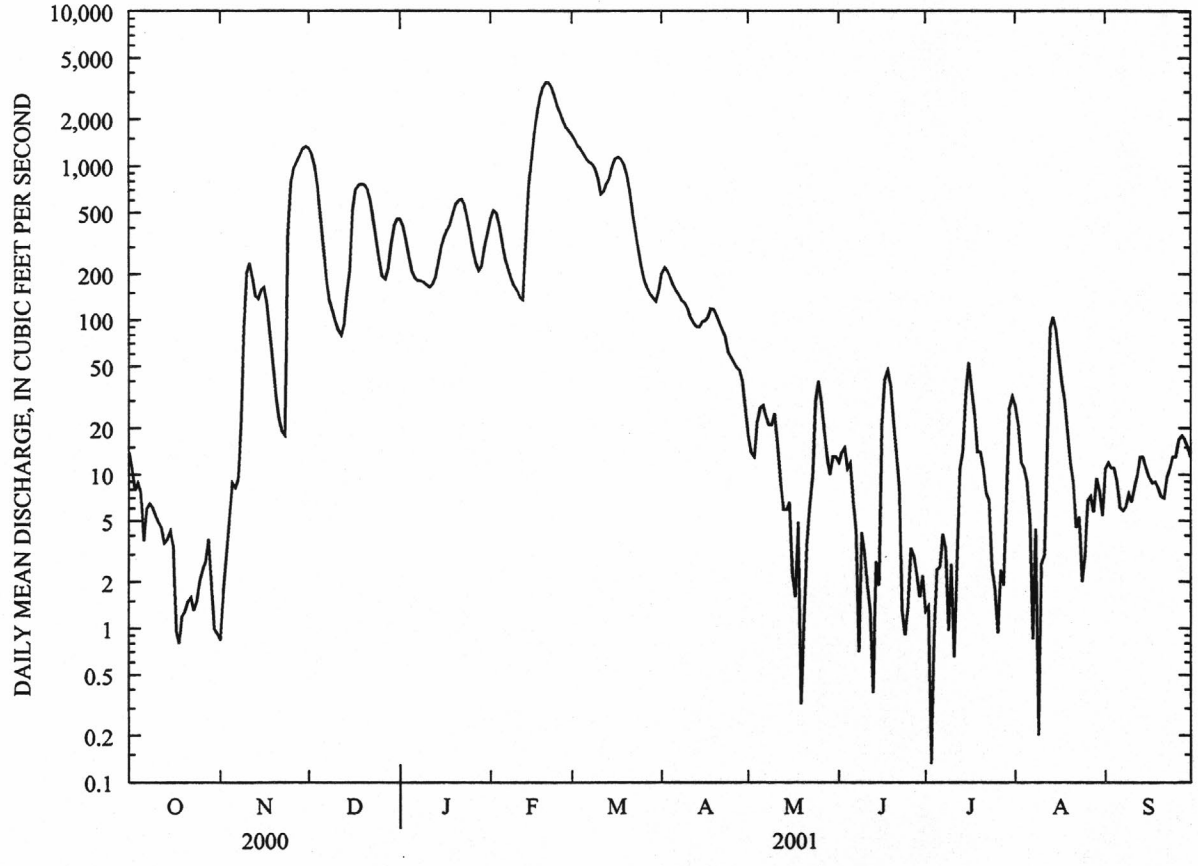
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2001, BY WATER YEAR (WY)

MEAN	60.4	240	452	414	512	553	499	423	154	55.5	46.8	65.2
MAX	775	1394	1451	1515	1680	1283	1517	1698	1191	482	402	391
(WY)	1985	1958	1974	1991	1956	1997	1973	1968	1974	1960	1966	1978
MIN	.35	.000	2.87	21.0	65.2	166	64.5	14.7	2.28	1.28	1.09	1.84
(WY)	2000	2000	1955	2000	1972	1972	1960	2001	1988	1980	2000	1999

07264000 BAYOU METO NEAR LONOKE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1955 - 2001	
ANNUAL TOTAL	55201.60		100979.93			
ANNUAL MEAN	151		277		288	
HIGHEST ANNUAL MEAN					550	1973
LOWEST ANNUAL MEAN					95.2	1963
HIGHEST DAILY MEAN	1340	Nov 30	3490	Feb 20	5570	Dec 29 1987
LOWEST DAILY MEAN	.00	Jul 28	.13	Jul 3	.00	Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	.16	Aug 13	1.2	Oct 17	.00	Oct 18 1954
MAXIMUM PEAK FLOW			3530	Feb 20-21	5750	Dec 29 1987
MAXIMUM PEAK STAGE			25.10	Feb 20-21	27.11	Dec 29 1987
INSTANTANEOUS LOW FLOW			.00	[a]Jul 3	.00	at times
ANNUAL RUNOFF (AC-FT)	109500		200300		208900	
10 PERCENT EXCEEDS	518		910		860	
50 PERCENT EXCEEDS	28		30		82	
90 PERCENT EXCEEDS	.96		2.0		5.9	

[a]Also July 26 and August 9



07337000 RED RIVER AT INDEX

LOCATION.--Lat 33°33'07", long 94°02'28", in NW1/4SW1/4 sec.7, T.14 S., R.28 W., Miller County, Hydrologic Unit 11140106, near right bank on downstream side of southbound bridge on U.S. Highway 71 at Index, 2.2 mi south of Ogden, 20.6 mi upstream from Little River, and at mile 485.3.

DRAINAGE AREA.--48,030 mi², of which 5,936 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft above sea level. Prior to Dec. 12, 1939, nonrecording gage, and Dec. 12, 1939, to July 19, 1979, water-stage recorder, at site 500 ft downstream at present datum.

REMARKS.--No estimted daily discharges. Water-discharge records good. Some regulation since Oct. 31, 1943, by Lake Texoma (Texas), 241 mi upstream, capacity, 5,392,900 acre-ft, since Sept. 28, 1967, by Pat Mayse Lake (Texas), capacity, 352,700 acre-ft, and since Jan. 18, 1974, by Hugo Lake (Oklahoma) capacity, 966,700 acre-ft. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	2290	32400	42400	22800	64800	24100	9350	35600	12600	7400	8480
2	1730	2780	33300	39700	29900	72200	23500	8160	35200	14300	7460	8410
3	1850	3130	32700	36300	28500	72900	22100	7120	42200	11800	7520	7150
4	2090	5560	31300	31800	23500	73700	21000	7220	37700	8500	8160	5640
5	2550	9290	30300	28600	20100	72200	19700	7360	29500	6860	8470	4600
6	2540	11300	29800	29000	18500	71800	18500	6940	24400	6220	6350	4420
7	1990	16100	28800	30200	18400	66900	17800	9130	20600	7750	4540	4610
8	1580	21700	26700	30200	17800	64900	17100	10500	16300	8360	4050	4350
9	1630	27700	25500	29500	16900	66200	16900	9850	15400	7600	3520	5130
10	1810	28900	22100	27500	16100	67100	15500	10100	15300	7330	2800	6410
11	1720	31700	17700	25200	15800	68200	12700	10700	14700	7620	2700	5830
12	1620	31600	16000	23500	16400	76600	11500	10900	13600	7430	3540	4720
13	1530	32700	13800	21500	17400	86300	11500	10400	11900	7370	3860	3700
14	1390	33800	11300	19600	19600	84500	13000	9500	11400	7440	3740	3040
15	1270	34400	11500	19200	31500	76500	17500	8400	12400	7190	3690	2690
16	1240	33700	13400	19000	49500	66400	20600	8040	13000	6800	3400	2430
17	1360	32600	14300	19600	76000	60800	21600	8190	12000	6230	2850	2420
18	1520	30000	14900	23300	96200	59300	24600	6460	10200	5820	2620	2410
19	1600	27100	15400	27600	96400	60600	23600	6250	8630	6150	2910	2450
20	1630	24000	16000	31900	69400	61800	19600	6870	6500	6330	3580	2610
21	1590	19500	16600	31800	53300	60300	16200	7040	4700	6270	3710	2620
22	1410	16200	15900	28400	50100	54600	11900	7000	3920	6340	3590	2760
23	1320	16600	14600	24800	50200	47900	8450	6910	4820	7000	3420	3470
24	1460	27900	13900	21600	47000	41900	7630	6470	6170	7260	3220	6200
25	1590	44200	13800	19200	40600	37000	11000	8720	6660	7300	3160	9010
26	1780	47000	15500	18100	38500	35400	19700	14300	7120	7300	3070	7790
27	1980	46700	37400	18200	46600	36300	22500	15300	7170	7300	3080	5770
28	1830	40500	72200	17900	54600	34500	19100	12000	7720	7310	3620	4340
29	1610	35100	89700	16600	---	29000	15200	11600	8060	7300	3500	3430
30	1670	32600	76700	15800	---	25300	10800	21100	9930	7370	3250	3040
31	2040	---	51700	15600	---	23800	---	31100	---	7380	4140	---
TOTAL	52570	766650	855200	783600	1081600	1819700	514880	312980	452800	237830	130920	139930
MEAN	1696	25560	27590	25280	38630	58700	17160	10100	15090	7672	4223	4664
MAX	2550	47000	89700	42400	96400	86300	24600	31100	42200	14300	8470	9010
MIN	1240	2290	11300	15600	15800	23800	7630	6250	3920	5820	2620	2410
AC-FT	104300	1521000	1696000	1554000	2145000	3609000	1021000	620800	898100	471700	259700	277600

07337000 RED RIVER AT INDEX--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2001, BY WATER YEAR (WY)

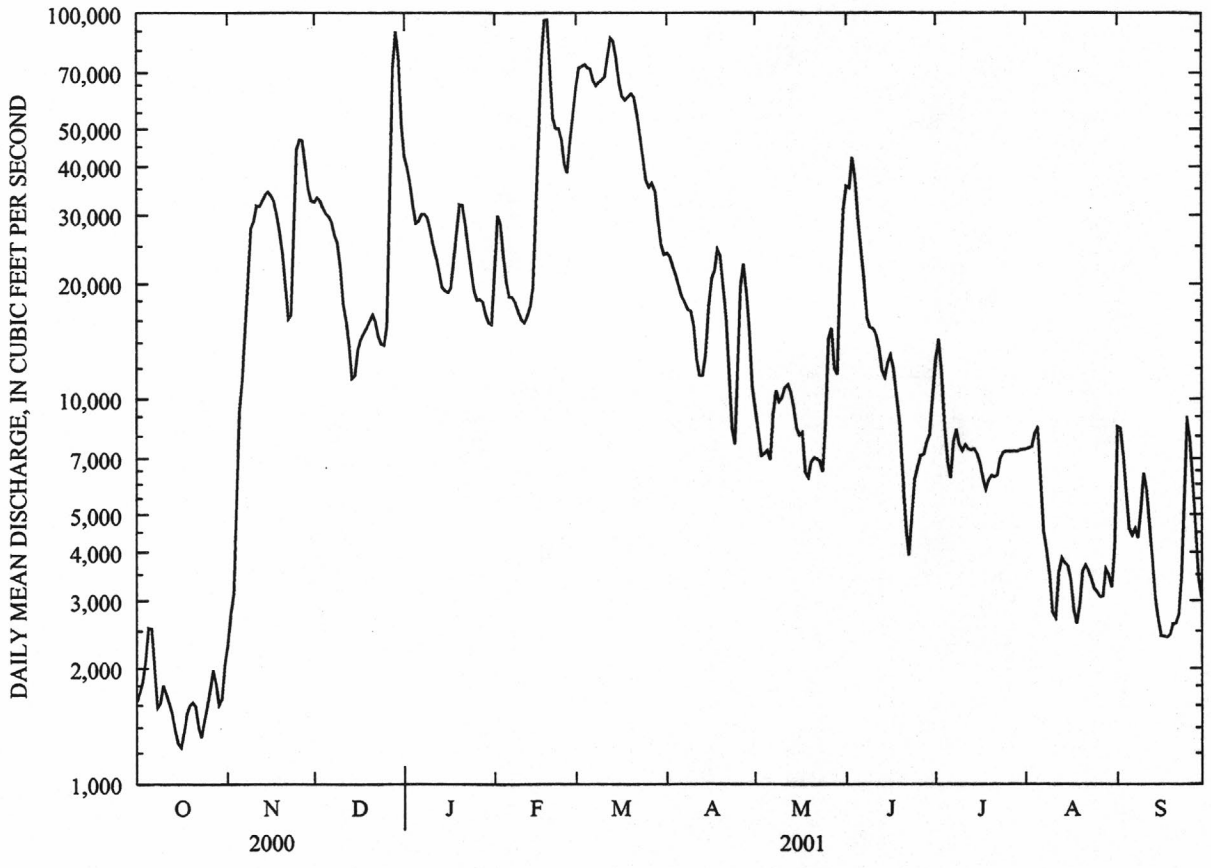
MEAN	8070	10910	12170	11350	14260	17500	17240	23740	21990	9782	5781	5925
MAX	41690	47140	47910	60160	38960	67730	61460	121000	94400	33990	39230	30340
(WY)	1946	1975	1992	1998	1946	1945	1990	1990	1957	1989	1950	1950
MIN	716	642	1206	1360	2127	2233	2096	4199	3098	1162	1025	909
(WY)	1957	1957	1957	1964	1964	1967	1956	1972	1988	1944	1944	1944

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1944 - 2001	
ANNUAL TOTAL	3245570		7148660			
ANNUAL MEAN	8868		19590		[a]13210	
HIGHEST ANNUAL MEAN					30420	1990
LOWEST ANNUAL MEAN					4383	1964
HIGHEST DAILY MEAN	89700	Dec 29	96400	Feb 19	268000	May 10 1990
LOWEST DAILY MEAN	1240	Oct 16	1240	Oct 16	384	Nov 28 1956
ANNUAL SEVEN-DAY MINIMUM	1420	Oct 13	1420	Oct 13	397	Oct 19 1956
MAXIMUM PEAK FLOW			102000	Feb 19	[b]270000	May 10 1990
MAXIMUM PEAK STAGE			18.55	Feb 19	[c]32.30	May 10 1990
INSTANTANEOUS LOW FLOW			1240	Oct 15-16	378	Nov 28 1956
ANNUAL RUNOFF (AC-FT)	6438000		14180000		9570000	
10 PERCENT EXCEEDS	19800		47400		35300	
50 PERCENT EXCEEDS	4500		13000		6010	
90 PERCENT EXCEEDS	2000		2590		2290	

[a]Prior to regulation, water years 1937-43, 11,970 ft^3/s

[b]Maximum discharge for period of record 297,000 ft^3/s Feb. 23, 1938

[c]Maximum gage height for period of record, 34.25 ft Feb. 23, 1938, from graph based on gage readings



07337000 RED RIVER AT INDEX--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-1956, April 1980 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT											
18...	1130	81213	80513	1450	764	6.2	69.8	7.8	1670	21.0	382
JAN											
17...	1115	81213	80513	19500	781	8.7	65.3	8.3	1050	4.2	240
FEB											
28...	1330	81213	80513	53400	775	9.7	86.3	7.7	516	11.0	129
MAY											
09...	1400	81213	80513	6840	764	7.6	90.6	8.2	737	24.2	206
JUN											
20...	1200	81213	80513	6900	763	7.9	105	8.3	1130	29.9	280
AUG											
29...	1315	81213	80513	3490	772	7.6	97.3	8.4	1270	28.6	313

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
18...	100	32.0	6.50	4.23	190	51.5	130	130	1020	.070	1.2
JAN											
17...	63.0	20.0	4.30	2.05	73.0	39.3	160	170	643	<.010	.60
FEB											
28...	37.0	9.0	3.00	1.80	47.0	43.4	63.0	69.0	310	.021	1.4
MAY											
09...	56.0	16.0	3.60	2.15	71.0	42.4	92.0	97.0	432	.032	1.1
JUN											
20...	74.0	23.0	3.80	3.12	120	47.9	170	160	675	<.010	.79
AUG											
29...	81.0	27.0	5.00	3.69	150	50.5	190	190	784	<.010	1.1

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L) AS NH4) (71846)	NITROGEN, NITRATE DISSOLVED (MG/L) AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L) AS NO3) (71851)	NITROGEN, NO2+NO3 DISSOLVED (MG/L) AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
OCT										
18...	.090	.010	.044	.030	.066	.20	1.13	1.23	.031	<.020
JAN										
17...	--	--	--	.460	--	<.010	--	1.06	.061	.030
FEB										
28...	.027	--	--	.390	--	<.010	1.38	1.79	.092	.030
MAY										
09...	.041	--	--	.200	--	<.010	1.07	1.30	.061	<.020
JUN										
20...	--	--	--	<.020	--	<.010	--	--	--	<.020
AUG										
29...	--	--	--	<.020	--	<.010	--	--	--	<.020

DATE	PHOSPHORUS ORTHO DIS SOLVED (MG/L AS P (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI MTEF MF WATER (COLS./ 100 ML/ (31633)	COLI FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP KF STRP MR, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT								
18...	.010	.120	120	77	84	95	225	881
JAN								
17...	.020	.150	80	73	160	61	564	29700
FEB								
28...	.030	.430	2200	1800	3800	59	1320	191000
MAY								
09...	.020	.200	400	480	260	89	310	5730
JUN								
20...	<.010	.070	E19	E19	E25	96	161	3000
AUG								
29...	<.010	.060	E6	E16	E27	100	168	1580

07337000 RED RIVER AT INDEX--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	28.8	16.4	21.7	24.6	19.8	22.0	11.2	10.7	10.9	2.5	2.1	2.2
2	29.9	19.0	23.7	22.3	20.3	21.5	11.0	10.6	10.8	2.4	1.8	2.1
3	29.9	22.1	25.0	21.6	20.7	21.1	10.6	9.9	10.2	2.4	1.8	2.1
4	30.6	21.8	25.5	20.7	18.8	19.8	9.9	9.3	9.6	2.7	1.9	2.3
5	27.0	24.5	25.9	18.8	18.3	18.5	9.6	9.0	9.4	3.4	2.5	2.9
6	26.3	18.9	23.4	19.2	18.2	18.6	9.5	9.3	9.4	4.4	3.3	3.8
7	18.9	11.0	15.1	18.3	16.5	17.5	9.8	9.2	9.5	5.2	4.4	4.8
8	13.6	8.2	10.2	16.5	14.9	15.6	10.0	9.5	9.8	5.8	4.9	5.3
9	15.9	7.5	11.7	14.9	13.2	13.9	9.8	9.3	9.4	6.0	5.4	5.7
10	20.8	9.2	13.3	13.2	12.1	12.7	9.6	9.3	9.4	5.7	5.4	5.5
11	18.3	9.2	14.0	12.1	11.6	11.7	10.2	9.0	9.8	5.4	5.3	5.4
12	25.2	11.3	17.2	11.8	11.6	11.8	9.0	7.3	8.1	5.4	5.2	5.3
13	28.6	14.6	19.2	11.7	11.2	11.4	7.3	5.9	6.2	5.4	5.3	5.3
14	29.5	15.0	20.5	11.4	10.8	11.1	6.0	5.4	5.7	6.5	5.4	5.9
15	32.6	17.0	22.6	11.3	10.9	11.1	5.4	5.2	5.2	6.7	5.8	6.3
16	24.3	19.9	21.7	11.6	11.3	11.5	5.2	4.4	5.0	6.6	6.4	6.5
17	30.0	16.5	21.2	11.5	11.2	11.3	4.4	3.5	3.9	6.4	5.9	6.2
18	23.0	16.7	19.5	11.4	10.8	11.1	4.6	3.5	4.0	5.9	5.6	5.7
19	29.9	14.9	19.6	11.2	10.5	10.9	4.3	3.6	4.0	6.1	5.6	5.8
20	25.6	15.0	19.8	11.3	10.6	10.9	4.4	3.4	3.9	5.6	4.9	5.2
21	22.8	17.4	19.4	11.2	10.4	10.8	4.8	4.0	4.4	5.1	4.6	4.8
22	25.3	18.5	21.2	10.7	10.1	10.5	4.6	3.8	4.2	5.0	4.5	4.7
23	29.6	18.7	23.0	10.6	10.4	10.5	4.1	3.8	3.9	5.0	4.6	4.8
24	31.5	17.8	22.8	11.1	10.6	10.8	4.2	3.5	3.9	5.9	4.9	5.3
25	30.0	18.3	22.7	11.3	10.9	11.1	4.1	3.2	3.5	6.4	5.5	5.9
26	30.6	18.1	22.8	11.3	10.9	11.1	3.2	2.8	3.0	7.5	6.2	6.8
27	26.9	18.8	22.3	11.2	10.8	11.0	3.0	2.6	2.8	7.3	7.0	7.1
28	28.2	18.5	22.0	11.1	10.8	11.0	3.3	2.9	3.1	7.6	6.9	7.1
29	22.6	18.8	20.8	11.5	11.0	11.2	3.4	3.0	3.2	8.6	7.6	8.2
30	29.4	19.5	23.2	11.3	10.7	11.0	3.2	2.8	3.0	9.3	8.0	8.6
31	23.5	20.7	21.9	---	---	---	2.8	2.2	2.5	9.3	8.3	8.8
MONTH	32.6	7.5	20.4	24.6	10.1	13.4	11.2	2.2	6.2	9.3	1.8	5.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.7	8.1	8.4	10.8	10.1	10.5	---	---	---	24.4	22.4	23.4
2	8.2	7.5	7.9	10.1	9.7	9.9	14.3	13.1	13.6	24.4	22.9	23.7
3	7.9	7.2	7.6	9.7	9.5	9.6	15.7	14.3	15.0	24.8	23.3	24.1
4	7.9	7.3	7.6	10.0	9.3	9.6	17.6	15.5	16.4	24.5	23.5	24.1
5	8.2	7.2	7.7	10.2	9.5	9.9	18.3	17.2	17.6	24.8	23.2	24.0
6	8.8	7.6	8.2	10.4	9.9	10.2	19.3	18.0	18.6	24.4	23.0	23.8
7	9.9	8.7	9.3	11.0	10.1	10.5	20.2	19.1	19.6	24.1	22.2	23.2
8	11.3	9.9	10.7	11.1	10.6	10.9	21.1	19.7	20.3	24.2	22.7	23.4
9	12.1	10.9	11.6	11.3	10.7	11.0	21.7	20.3	20.9	25.1	22.8	23.9
10	10.9	10.0	10.5	11.3	10.6	11.0	21.7	20.7	21.2	25.9	23.9	24.8
11	10.2	8.7	9.3	11.1	10.7	10.9	21.4	20.2	20.8	26.4	24.3	25.3
12	8.7	8.2	8.4	11.9	10.9	11.4	20.4	19.3	19.9	26.3	24.3	25.3
13	8.2	8.1	8.1	12.7	11.8	12.2	20.5	19.3	19.9	26.8	24.6	25.6
14	8.6	8.1	8.4	12.7	12.5	12.6	20.3	19.5	19.7	27.0	24.8	26.0
15	10.0	8.6	9.3	13.1	12.6	12.8	20.9	19.3	20.0	27.3	25.5	26.5
16	10.7	10.0	10.4	12.8	12.2	12.5	20.9	19.7	20.3	27.8	25.7	26.8
17	10.3	9.2	9.8	12.4	11.6	12.0	20.5	19.4	19.9	27.9	26.3	27.2
18	9.2	7.6	8.2	11.6	11.0	11.3	19.7	18.5	19.2	27.8	26.6	27.3
19	7.6	7.0	7.3	11.2	10.7	10.9	19.0	18.3	18.6	28.7	26.8	27.7
20	8.1	7.5	7.7	11.4	10.5	11.0	18.9	18.3	18.6	28.4	27.0	27.8
21	8.8	8.0	8.4	11.9	10.9	11.4	20.0	18.5	19.1	27.8	24.5	26.1
22	8.8	8.6	8.7	12.7	11.6	12.1	20.9	19.2	19.9	24.7	23.2	24.0
23	8.8	8.4	8.6	13.7	12.6	13.1	20.8	20.0	20.3	24.8	22.7	23.8
24	10.2	8.7	9.4	14.0	13.6	13.8	20.9	19.1	20.0	24.6	23.0	23.9
25	10.8	9.8	10.2	14.3	13.2	13.8	21.5	19.4	20.4	24.8	22.9	23.8
26	10.9	10.3	10.6	13.8	12.6	13.1	21.6	20.1	20.8	25.0	23.1	24.1
27	10.8	10.7	10.7	12.6	11.8	12.2	21.4	20.1	20.8	25.3	24.1	24.6
28	10.9	10.8	10.9	11.8	10.7	11.2	22.4	20.6	21.4	26.1	24.3	25.1
29	---	---	---	10.7	10.3	10.4	23.1	21.3	22.1	26.7	25.1	25.8
30	---	---	---	10.9	10.3	10.5	23.7	21.8	22.7	26.2	25.4	25.8
31	---	---	---	12.3	10.6	11.4	---	---	---	25.4	24.0	24.4
MONTH	12.1	7.0	9.1	14.3	9.3	11.4	---	---	---	28.7	22.2	25.0

07337000 RED RIVER AT INDEX--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.6	23.4	24.0	26.8	24.7	25.7	33.1	31.2	32.2	25.0	24.0	24.4
2	25.5	24.1	24.7	27.7	25.3	26.4	32.6	31.0	31.8	25.8	24.2	24.8
3	25.9	25.0	25.4	29.4	26.6	27.8	32.9	30.7	31.8	27.5	25.3	26.2
4	26.4	25.3	25.8	30.7	28.0	29.3	32.8	30.9	31.9	27.8	26.7	27.2
5	26.8	25.8	26.2	31.2	29.5	30.4	32.5	30.8	31.7	28.4	26.6	27.3
6	26.5	25.7	26.0	32.3	30.2	31.2	31.9	30.3	31.0	28.3	26.5	27.4
7	25.7	24.9	25.2	32.9	30.9	31.9	32.1	29.9	30.9	28.6	26.9	27.6
8	25.6	24.5	25.0	33.2	31.2	32.3	32.3	30.6	31.3	29.3	22.9	28.0
9	26.9	25.0	25.8	33.1	31.2	32.2	32.2	30.6	31.3	28.7	26.7	27.3
10	27.9	26.1	26.9	33.4	31.3	32.4	31.4	28.0	30.1	26.8	25.1	26.0
11	28.8	26.7	27.6	33.7	31.6	32.7	30.2	26.3	28.4	26.7	24.7	25.7
12	29.4	27.4	28.3	33.9	32.0	33.0	30.4	29.5	30.0	27.0	24.6	25.7
13	29.7	28.0	28.8	33.5	31.3	32.1	31.4	29.3	30.2	27.8	25.4	26.5
14	29.7	28.2	29.0	31.5	29.2	30.0	31.6	29.6	30.4	27.7	25.1	26.9
15	29.2	27.8	28.5	29.6	28.2	28.9	31.3	29.6	30.4	26.6	24.0	25.2
16	29.5	27.3	28.4	30.1	28.1	29.2	30.7	29.1	29.6	24.6	22.1	23.3
17	29.8	27.6	28.7	31.0	29.0	30.0	29.2	25.9	27.4	27.7	22.0	24.8
18	30.3	28.1	29.2	31.9	29.8	30.7	28.0	25.1	26.8	30.1	23.6	26.3
19	30.6	28.7	29.7	32.5	30.3	31.4	30.6	25.7	28.7	28.9	23.3	25.5
20	31.2	29.1	30.1	32.9	30.9	31.9	31.3	28.9	30.0	25.9	22.8	23.7
21	30.6	29.7	30.2	33.5	31.3	32.4	31.6	29.6	30.5	24.0	21.5	22.7
22	30.1	28.4	29.2	33.9	31.8	32.8	31.7	29.6	30.6	28.3	22.2	24.8
23	30.4	28.3	29.3	33.7	32.0	32.9	31.8	29.8	30.7	25.8	24.3	24.9
24	30.5	28.6	29.6	33.6	31.9	32.8	31.7	29.9	30.8	25.3	23.9	24.4
25	30.4	28.8	29.7	33.5	31.7	32.7	31.5	29.4	30.5	24.0	22.1	22.9
26	30.1	28.8	29.6	33.4	31.6	32.5	30.8	29.0	30.1	22.9	21.3	22.2
27	30.5	28.7	29.6	33.2	31.4	32.3	29.2	28.0	28.7	22.8	21.0	22.0
28	29.5	27.8	28.4	32.2	31.0	31.6	29.4	27.9	28.6	23.1	21.2	22.1
29	27.8	26.2	26.9	32.1	30.5	31.3	29.2	27.8	28.5	22.6	21.3	21.9
30	26.6	25.2	25.8	32.7	30.6	31.6	28.5	27.0	27.5	22.6	20.5	21.5
31	---	---	---	33.0	31.0	32.0	27.0	25.0	25.9	---	---	---
MONTH	31.2	23.4	27.7	33.9	24.7	31.1	33.1	25.0	29.9	30.1	20.5	25.0

Remark Codes Used in This report:
< -- Less than
E -- Estimated value

07340000 LITTLE RIVER NEAR HORATIO

LOCATION.--Lat 33°55'10", long 94°23'15", in NE1/4 sec.10, T.10 S., R.32 W., Sevier County, Hydrologic Unit 11140109, near left bank on downstream side of bridge on State Highway 41, 0.9 mi downstream from Rolling Fork, 2.0 mi southwest of Horatio, 28.5 mi upstream from Cossatot River, and at mile 72.0.

DRAINAGE AREA.--2,662 mi^2.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 858: 1932, 1935-36. WSP 1211: 1931, drainage area. WSP 1561: 1932. WRD Ark. 1978: drainage area.

GAGE.--Water-stage recorder. Datum of gage is 272.89 ft above sea level. Prior to Feb. 5, 1935, nonrecording gage, and Feb. 5, 1934, to Sept. 13, 1961, water-stage recorder, at site 50 ft upstream at present datum.

REMARKS.--Records good except estimated daily discharges, which are fair. Some regulation since Oct. 3, 1968, by Broken Bow Lake (Oklahoma), 31.4 mi upstream, capacity, 1,368,000 acre-ft, and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 mi upstream, capacity, 465,800 acre-ft. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915, reached a stage of 38.0 ft, discharge, 124,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	636	609	10800	9140	10300	17100	2350	1640	8630	3100	1670	718
2	940	685	12000	8830	9520	16200	1830	844	9820	1680	2130	662
3	1100	2500	11700	9660	8380	17200	3580	1020	8340	1130	1260	618
4	827	2030	11800	10900	4020	18300	4450	1030	7960	927	942	644
5	852	2090	11300	11600	2780	16500	4740	1320	7530	820	784	641
6	1030	9340	9330	11900	3570	12800	4470	702	4290	1160	700	718
7	610	15800	8980	8910	3520	11600	3360	761	1880	1600	2000	691
8	472	14700	9500	8670	3510	14400	1440	1650	1200	1570	2290	1640
9	475	14500	8700	11900	3260	15800	954	2520	1020	1550	2450	1360
10	463	9050	5240	12800	3040	16100	1100	1990	965	1440	2520	904
11	450	6000	3850	12500	3470	16400	1740	2180	809	2210	1880	1340
12	451	5400	5010	12500	3260	18500	2010	2710	898	2490	907	1130
13	451	9470	4640	10300	6180	17900	1910	2810	1250	1210	637	2430
14	445	10100	2640	6270	17500	15900	1770	2270	1100	901	656	2850
15	386	8450	2920	4950	20100	17200	3980	2220	1120	776	658	1820
16	370	8170	3080	5640	22200	16500	6070	2760	971	777	710	853
17	e360	7880	3700	6240	31400	15300	7710	2210	880	1240	738	645
18	e350	5270	3470	8890	28600	15600	7740	1700	1170	2340	732	1810
19	e340	3290	5630	10500	25200	15400	7950	1550	1300	2790	1130	1920
20	364	2810	7260	10100	21700	15100	7120	734	1550	3250	857	2720
21	411	2960	7350	8090	13800	15000	5030	624	1310	3250	678	2740
22	376	3290	4770	7270	7400	15400	2110	3340	859	2060	667	2890
23	360	4040	3440	7480	11400	15900	1670	5320	1470	2980	645	1780
24	e350	17800	2160	6790	12200	16100	3270	5340	814	3490	645	1430
25	e340	25200	1680	5750	7840	16100	2630	5820	882	1460	638	1430
26	e330	22300	7330	5620	10600	15900	3130	3460	1010	958	613	1300
27	e320	17100	23100	3100	13100	15600	3000	1480	1500	887	612	1470
28	e315	12100	27900	2160	16700	12600	2400	2600	922	955	896	1260
29	e310	9010	26200	2340	---	9840	1140	5890	1320	744	1180	798
30	e310	10300	22100	5880	---	8370	660	4740	3510	689	818	621
31	382	---	15000	9700	---	4700	---	4360	---	731	859	---
TOTAL	15176	262244	282580	256380	324550	465310	101314	77595	76280	51165	33902	41833
MEAN	490	8741	9115	8270	11590	15010	3377	2503	2543	1650	1094	1394
MAX	1100	25200	27900	12800	31400	18500	7950	5890	9820	3490	2520	2890
MIN	310	609	1680	2160	2780	4700	660	624	809	689	612	618
AC-FT	30100	520200	560500	508500	643700	922900	201000	153900	151300	101500	67240	82980

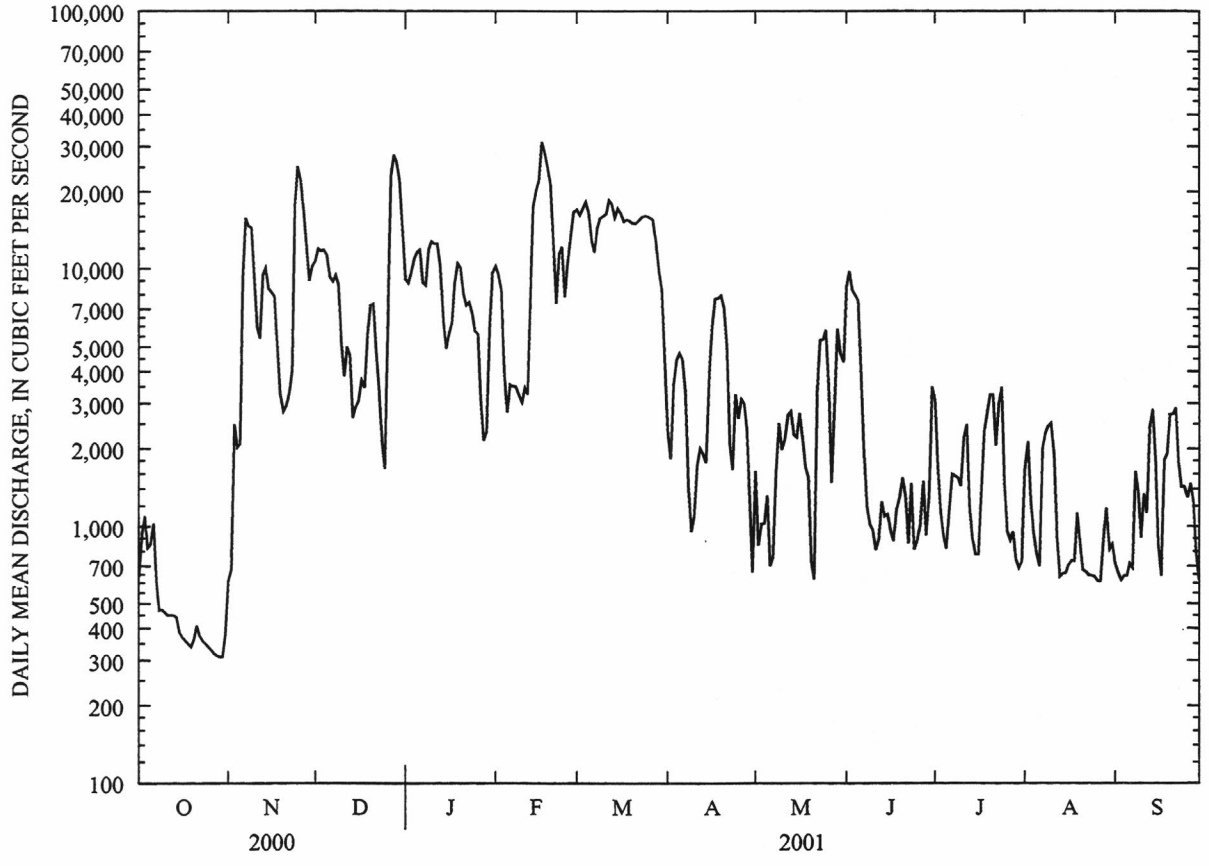
07340000 LITTLE RIVER NEAR HORATIO--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	2123	4522	6405	4866	5750	6970	5471	6087	4247	1737	1150	1469
MAX	9360	15960	17120	15890	12390	15020	16250	16790	14180	8397	3542	10430
(WY)	1985	1975	1972	1998	1989	1997	1973	1990	1990	1983	1992	1974
MIN	242	232	244	493	669	665	1449	530	346	281	411	303
(WY)	2000	2000	1990	1981	1996	1996	1981	1988	1988	1972	1977	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL TOTAL	1335329		1988329			
ANNUAL MEAN	3648		5447		[a]4225	
HIGHEST ANNUAL MEAN					7523	1973
LOWEST ANNUAL MEAN					1547	1976
HIGHEST DAILY MEAN	27900	Dec 28	31400	Feb 17	57700	Dec 12 1971
LOWEST DAILY MEAN	264	Jan 26	310	Oct 29	[b]121	Oct 5 1972
ANNUAL SEVEN-DAY MINIMUM	325	Oct 24	325	Oct 24	152	Oct 4 1972
MAXIMUM PEAK FLOW			32400	Feb 17	[c]65100	Dec 10 1971
MAXIMUM PEAK STAGE			29.14	Feb 17	[d]32.84	Dec 10 1971
ANNUAL RUNOFF (AC-FT)	2649000		3944000		3061000	
10 PERCENT EXCEEDS	9540		15500		12500	
50 PERCENT EXCEEDS	1910		2720		1850	
90 PERCENT EXCEEDS	442		645		361	

[a]Prior to regulation, water years 1931-68, 3,742 ft^3/s
[b]Minimum discharge for period of record, 1.0 ft^3/s Aug. 18 to Sept. 1, 1934
[c]Maximum discharge for period of record, 120,000 ft^3/s Mar. 30, 1945, from rating curve extended above 93,000 ft^3/s
[d]Maximum gage height for period of record, 37.70 ft Mar. 30, 1945
[e]Estimated



07340300 COSSATOT RIVER NEAR VANDERVOORT
(Hydrologic benchmark station)

LOCATION.--Lat 34°22'48", long 94°14'11", in SE1/4NE1/4 sec.30, T.4 S., R.30 W., Polk County, Hydrologic Unit 11140109, on right bank 200 ft upstream from bridge on State Highway 246, 0.3 mi downstream from Brushy Creek, 3.2 mi upstream from Flat Creek, and 7.5 mi east of Vandervoort.

DRAINAGE AREA.--89.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1967 to current year.

REVISED RECORDS.--WRD Ark. 1978: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 771.88 ft above sea level.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6, 1961, reached a stage of about 23.0 ft, from information by local resident, discharge, about 48,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	19	97	183	224	483	157	47	204	26	13	23
2	12	326	81	143	172	411	135	45	138	20	14	24
3	12	96	70	120	141	335	119	43	100	18	13	39
4	12	109	63	109	121	872	104	40	78	17	12	31
5	12	174	58	106	103	505	92	40	64	16	11	25
6	14	2750	54	106	93	334	85	51	59	16	11	27
7	14	414	51	112	85	246	79	57	61	15	14	32
8	13	1010	49	114	82	194	74	48	53	14	13	45
9	12	640	46	108	120	161	69	42	45	13	12	3530
10	12	304	44	97	164	132	65	38	39	12	13	321
11	13	187	43	146	151	128	65	41	35	11	208	131
12	13	269	44	186	140	674	65	83	32	11	79	76
13	12	624	60	181	1610	436	57	55	30	14	43	52
14	12	314	75	193	1860	704	70	44	29	17	29	39
15	12	199	81	185	3090	1030	718	39	47	14	23	32
16	14	146	362	165	6540	540	420	35	35	13	26	27
17	15	107	344	213	1340	342	249	33	28	12	26	25
18	13	84	239	313	620	248	177	32	25	12	23	23
19	13	70	172	288	395	195	141	35	24	11	21	31
20	13	61	137	244	283	160	122	31	23	10	19	25
21	14	53	116	202	218	135	104	87	21	9.7	18	22
22	15	48	92	164	179	117	86	76	20	9.4	17	21
23	14	1310	81	138	153	106	108	54	19	9.2	16	20
24	14	3390	74	119	421	117	110	61	18	10	15	19
25	13	1230	77	102	704	99	90	53	18	12	15	19
26	13	517	1700	91	391	90	79	44	17	16	15	17
27	20	301	1330	84	331	85	70	39	17	17	16	16
28	22	206	610	76	497	89	62	978	17	32	17	16
29	18	151	466	629	---	156	55	360	17	19	18	15
30	17	116	318	555	---	230	50	247	23	28	18	15
31	16	---	236	323	---	191	---	274	---	17	21	---
TOTAL	431	15225	7270	5795	20228	9545	3877	3152	1336	471.3	809	4738
MEAN	13.9	508	235	187	722	308	129	102	44.5	15.2	26.1	158
MAX	22	3390	1700	629	6540	1030	718	978	204	32	208	3530
MIN	12	19	43	76	82	85	50	31	17	9.2	11	15
AC-FT	855	30200	14420	11490	40120	18930	7690	6250	2650	935	1600	9400
CFSM	.16	5.66	2.62	2.09	8.06	3.44	1.44	1.13	.50	.17	.29	1.76
IN.	.18	6.32	3.02	2.41	8.40	3.96	1.61	1.31	.55	.20	.34	1.97

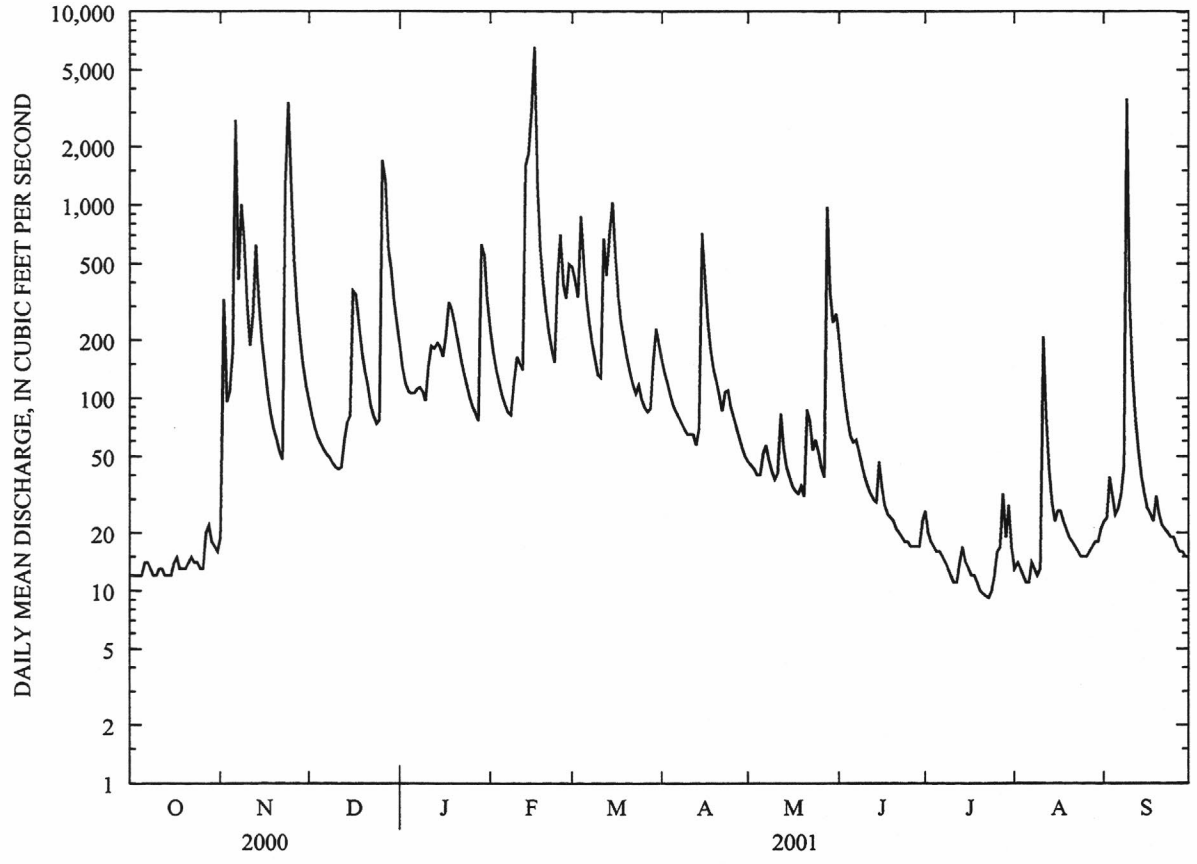
07340300 COSSATOT RIVER NEAR VANDERVOORT--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)

MEAN	126	235	316	225	256	351	278	246	146	82.8	27.8	59.0
MAX	899	878	1105	624	722	860	799	827	426	565	65.1	376
(WY)	1985	1997	1972	1969	2001	1973	1973	1968	1973	1994	1971	1974
MIN	11.2	19.8	25.6	24.2	65.3	61.5	60.3	24.5	11.5	11.4	9.57	10.7
(WY)	1979	1990	1990	1981	1996	1986	1987	1988	1972	1978	1972	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001	
ANNUAL TOTAL	60689.7		72877.3			
ANNUAL MEAN	166		200		196	
HIGHEST ANNUAL MEAN					358	1973
LOWEST ANNUAL MEAN					86.3	1996
HIGHEST DAILY MEAN	3390	Nov 24	6540	Feb 16	15800	Dec 9 1971
LOWEST DAILY MEAN	5.6	Sep 21	9.2	Jul 23	5.6	Sep 21 2000
ANNUAL SEVEN-DAY MINIMUM	5.8	Sep 16	10	Jul 18	5.8	Sep 16 2000
MAXIMUM PEAK FLOW			17300	Sep 9	[a]32000	Dec 2 1982
MAXIMUM PEAK STAGE			15.19	Sep 9	19.50	Dec 2 1982
INSTANTANEOUS LOW FLOW			8.8	Jul 23	5.5	[b]Sep 17 2000
ANNUAL RUNOFF (AC-FT)	120400		144600		141700	
ANNUAL RUNOFF (CFSM)	1.85		2.23		2.18	
ANNUAL RUNOFF (INCHES)	25.20		30.26		29.67	
10 PERCENT EXCEEDS	327		412		403	
50 PERCENT EXCEEDS	64		62		65	
90 PERCENT EXCEEDS	9.4		13		15	

[a]From rating curve extended above 11,000 ft^3/s on basis of step-backwater computations
[b]Also Sept. 21-22, 2000



07340300 COSSATOT RIVER NEAR VANDERVOORT--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-68, 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT 19...	0715	81213	80513	8.4	751	8.6	86	6.7	70	14.7
JAN 18...	0845	81213	80513	313	762	10.2	81	7.7	27	5.8
MAR 01...	0715	81213	80513	492	759	11.2	98	7.1	25	9.2
MAY 10...	0700	81213	80513	47	748	7.5	85	7.3	46	20.7
JUN 21...	0730	81213	80513	21	748	6.5	82	7.1	56	26.1
AUG 30...	0800	81213	80513	10	760	6.4	78	7.4	68	25.4

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 19...	27	8.10	1.70	.70	.2	2.0	13	26	2.1	3.8
JAN 18...	8	1.80	.800	.50	.2	1.6	29	8	1.4	3.2
MAR 01...	7	1.50	.700	.50	.2	1.3	28	7	1.3	3.0
MAY 10...	17	4.60	1.30	.70	.2	1.8	18	16	1.7	3.4
JUN 21...	21	5.90	1.60	1.20	.2	1.9	15	24	1.8	3.4
AUG 30...	27	8.10	1.70	.70	.2	2.0	13	2	2.0	3.5

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, TOTAL (MG/L AS N) (00600)
OCT 19...	.70	.2	2.0	13	26	2.1	--	<.020	<.010	--
JAN 18...	.50	.2	1.6	29	8	1.4	--	.170	<.010	--
MAR 01...	.50	.2	1.3	28	7	1.3	--	.210	<.010	.51
MAY 10...	.70	.2	1.8	18	16	1.7	--	.030	<.010	.28
JUN 21...	1.20	.2	1.9	15	24	1.8	--	.030	<.010	--
AUG 30...	.70	.2	2.0	13	2	2.0	.01	.030	<.010	--

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 19...	<.020	<.010	<.020	E4	E7	E11	91	13	.29
JAN 18...	<.020	<.010	<.020	E17	21	E16	100	7	5.9
MAR 01...	<.020	<.010	<.020	E57	E60	92	85	5	6.6
MAY 10...	<.020	<.010	<.020	E8	E11	62	89	10	1.3
JUN 21...	<.020	<.010	<.020	E20	E28	46	87	8	.45
AUG 30...	<.020	<.010	<.020	E2	29	600	90	8	.22

Remark codes used in this report:
< -- Less than
E -- Estimated value

07341200 SALINE RIVER NEAR LOCKESBURG

LOCATION.--Lat 33°57'43", long 94°03'40", in NW1/4SE1/4 sec.23, T.9 S., R.29 W., Sevier County, Hydrologic Unit 11140109, on right bank 50 ft upstream of bridge on State Highway 24, 2.0 mi downstream from Brushy Creek, 6.0 mi east of Lockesburg, and at mile 30.0.

DRAINAGE AREA.--256 mi².

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

REVISED RECORDS.--WRD Ark. 1978: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good. Regulation since May 8, 1975, by Dierks Lake 5.9 mi upstream, capacity 159,500 acre-ft. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6 or 7, 1961, reached a stage of about 25.6 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	963	353	526	1830	1080	104	1250	109	22	62
2	13	19	947	301	616	1120	1040	98	351	96	22	47
3	13	26	930	836	431	1370	1020	82	554	56	22	56
4	13	27	906	976	362	1960	1010	71	743	41	22	40
5	10	24	652	982	348	946	991	59	709	35	22	27
6	12	66	619	1000	337	871	969	52	699	32	22	27
7	11	100	594	998	330	1250	849	189	935	30	23	31
8	11	96	425	961	321	1230	826	816	827	28	23	33
9	11	322	183	917	183	1180	813	777	418	26	22	89
10	10	122	156	888	179	1140	792	594	345	25	22	145
11	9.8	66	155	1080	173	1130	485	312	322	24	23	58
12	9.8	57	144	1540	180	2280	186	412	308	24	27	33
13	9.5	566	153	1160	506	1840	122	356	211	24	24	26
14	173	224	165	1240	3660	1060	129	248	120	24	23	24
15	185	576	181	1220	2480	3540	543	216	159	24	22	18
16	128	589	290	1040	4970	2090	578	202	190	24	29	13
17	19	525	326	1140	7590	1370	640	117	126	24	32	12
18	12	489	251	1430	2350	1360	601	89	103	23	29	12
19	11	470	289	1380	639	1270	559	73	77	23	25	13
20	11	442	276	711	1260	1210	420	51	49	23	23	13
21	11	228	265	346	1330	1160	177	880	45	22	23	13
22	11	210	252	270	1360	1130	136	2830	48	22	22	18
23	11	231	188	872	1280	1100	148	545	41	22	22	18
24	11	2860	177	1130	1220	1160	280	456	37	22	22	29
25	11	1890	177	1160	1140	1170	313	323	35	22	22	37
26	11	434	564	998	1060	1100	279	272	33	22	22	21
27	183	777	4300	955	1110	1060	150	250	31	24	28	18
28	185	864	4370	932	2050	1050	127	532	30	23	33	16
29	113	866	1840	1100	---	1100	121	543	63	22	23	16
30	18	977	706	1760	---	1190	117	594	80	24	23	15
31	12	---	439	491	---	1140	---	1200	---	23	57	---
TOTAL	1262.1	14155	21883	30167	37991	42407	15501	13343	8939	963	776	980
MEAN	40.7	472	706	973	1357	1368	517	430	298	31.1	25.0	32.7
MAX	185	2860	4370	1760	7590	3540	1080	2830	1250	109	57	145
MIN	9.5	12	144	270	173	871	117	51	30	22	22	12
AC-FT	2500	28080	43400	59840	75360	84110	30750	26470	17730	1910	1540	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001, BY WATER YEAR (WY)

MEAN	167	380	666	533	653	795	575	506	366	210	51.6	54.3
MAX	887	1854	2719	1292	1521	1772	1415	1295	1458	1451	236	454
(WY)	1994	1975	1983	1994	1989	1990	1979	1979	1981	1983	1989	1992
MIN	4.88	9.97	14.7	25.2	17.8	36.1	148	40.0	22.3	15.8	17.5	8.03
(WY)	1978	1996	1990	1996	1996	1996	1998	1987	1988	1978	1997	1981

07341200 SALINE RIVER NEAR LOCKESBURG--CONTINUED

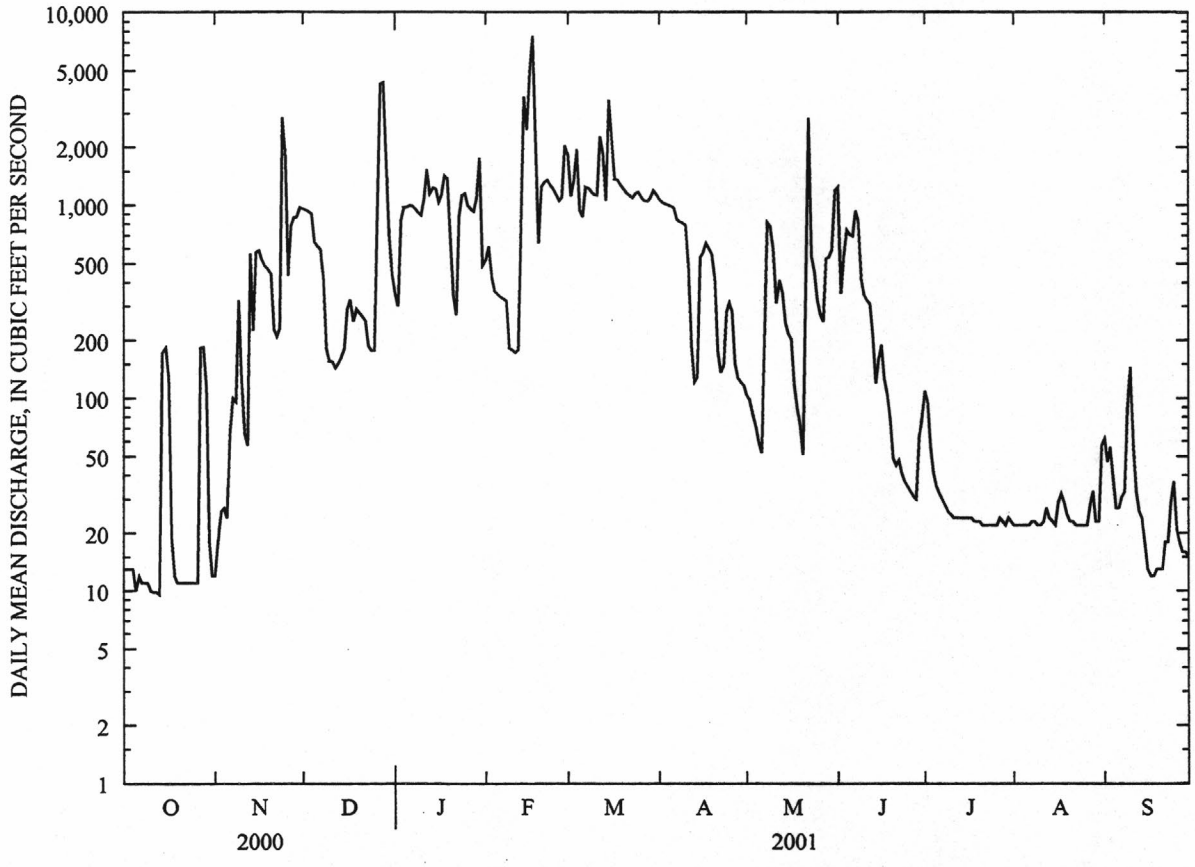
SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1975 - 2001	
ANNUAL TOTAL	115781.1		188367.1			
ANNUAL MEAN	316		516		[a]412	
HIGHEST ANNUAL MEAN					733	1983
LOWEST ANNUAL MEAN					87.0	1996
HIGHEST DAILY MEAN	6080	Jun 18	7590	Feb 17	36800	Dec 3 1982
LOWEST DAILY MEAN	9.5	Oct 13	9.5	Oct 13	[b]2.3	Oct 16 1977
ANNUAL SEVEN-DAY MINIMUM	10	Oct 7	10	Oct 7	2.4	Oct 14 1977
MAXIMUM PEAK FLOW			10100	Feb 17	[c]59600	Dec 3 1982
MAXIMUM PEAK STAGE			16.61	Feb 17	[d]20.52	Dec 3 1982
ANNUAL RUNOFF (AC-FT)	229700		373600		298400	
10 PERCENT EXCEEDS	867		1210		1010	
50 PERCENT EXCEEDS	127		186		116	
90 PERCENT EXCEEDS	13		18		16	

[a]Prior to regulation, water years 1963-74, 382 ft^3/s

[b]Minimum discharge for period of record, 0.20 ft^3/s Nov. 6, 1963, and Oct. 29, 1969

[c]Maximum discharge for period of record 64,700 ft^3/s May 14, 1968, from rating extended above 23,000 ft^3/s on basis of contracted-opening measurement of peak flow

[d]Maximum gage height for period of record 20.86 ft May 14, 1968



07356000 OUACHITA RIVER NEAR MOUNT IDA

LOCATION.--Lat 34°36'36", long 93°41'50", in SE1/4SW1/4 sec.32, T.1 S., R.25 W., Montgomery County, Hydrologic Unit 08040101, on right bank 300 ft upstream from bridge on U.S. Highway 270, 3.1 mi upstream from Fiddler's Creek, 5.2 mi northwest of Mount Ida, and at mile 553.4.

DRAINAGE AREA.--414 mi^2.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1211: 1947(m). WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 655.14 ft above sea lavel. Prior to Dec. 3, 1941, and Mar. 1, 1945, to Apr. 1, 1946, nonrecording gage, Dec. 3, 1941 to Feb. 21, 1945, and Apr. 2, 1946, to Nov. 2, 1949, water-stage recorder, all at site 350 ft downstream at present datum.

REMARKS.--Records good except estimated daily discharges, which are poor. As of August 1977, flow from 34.3 mi^2 upstream from this station is controlled by one floodwater-detention reservoir that has a capacity of 15,661 acre-ft, of which 9,726 acre-ft is flood-detention, 4,600 acre-ft is water supply, and 1,355 acre-ft is sediment storage. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Dec. 3, 1982, was about 4.0 ft higher than that of 1908 and is the highest since at least that date, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	44	648	e1120	1190	1850	743	168	614	41	47	22
2	35	147	545	e915	962	1610	658	160	480	35	48	26
3	32	405	466	e763	802	1380	609	154	381	38	41	26
4	29	281	408	e687	692	2620	559	148	311	40	34	25
5	30	290	363	e704	600	2200	505	142	255	43	28	24
6	36	6500	328	e831	529	1630	463	148	e220	40	25	24
7	32	2670	297	e939	478	1300	427	163	e197	35	25	22
8	29	3280	270	e979	437	1080	386	168	e184	30	27	24
9	28	3390	246	910	441	953	351	159	e164	26	26	12700
10	28	1660	227	798	610	823	323	147	e145	23	24	2590
11	28	1090	214	924	539	732	302	143	e126	21	33	952
12	29	961	201	1210	506	1920	308	141	e111	19	514	620
13	30	2570	225	1010	2100	1730	361	146	e97	26	439	448
14	29	1570	269	1050	5970	1500	312	135	88	26	237	341
15	29	1070	379	940	8040	3170	488	122	106	24	154	267
16	29	826	590	815	21200	2100	1120	114	114	22	115	215
17	30	666	1040	1010	12300	1520	770	107	97	22	94	188
18	30	545	825	1780	3740	1210	621	100	84	23	81	165
19	29	463	733	1680	2710	995	530	97	70	23	77	152
20	28	400	617	1340	2230	854	464	97	61	21	65	135
21	29	346	558	1110	1730	743	418	134	55	20	54	131
22	31	303	495	943	1320	657	378	274	51	19	47	121
23	33	576	432	810	1070	588	362	299	47	18	41	107
24	32	14300	399	719	1120	624	353	227	43	17	35	118
25	31	7610	377	625	3130	669	321	203	39	16	31	128
26	31	3170	772	550	1980	548	274	188	36	17	27	108
27	32	1930	e4280	494	1660	487	243	171	34	25	25	95
28	34	1320	e2930	445	2010	458	219	1440	34	31	23	85
29	34	989	e2830	1420	---	653	199	1670	35	74	23	76
30	36	778	e1910	2680	---	964	182	1090	43	94	23	69
31	39	---	1390	1630	---	835	---	767	---	58	23	---
TOTAL	986	60150	25264	31831	80096	38403	13249	9222	4322	967	2486	20004
MEAN	31.8	2005	815	1027	2861	1239	442	297	144	31.2	80.2	667
MAX	54	14300	4280	2680	21200	3170	1120	1670	614	94	514	12700
MIN	28	44	201	445	437	458	182	97	34	16	23	22
AC-FT	1960	119300	50110	63140	158900	76170	26280	18290	8570	1920	4930	39680

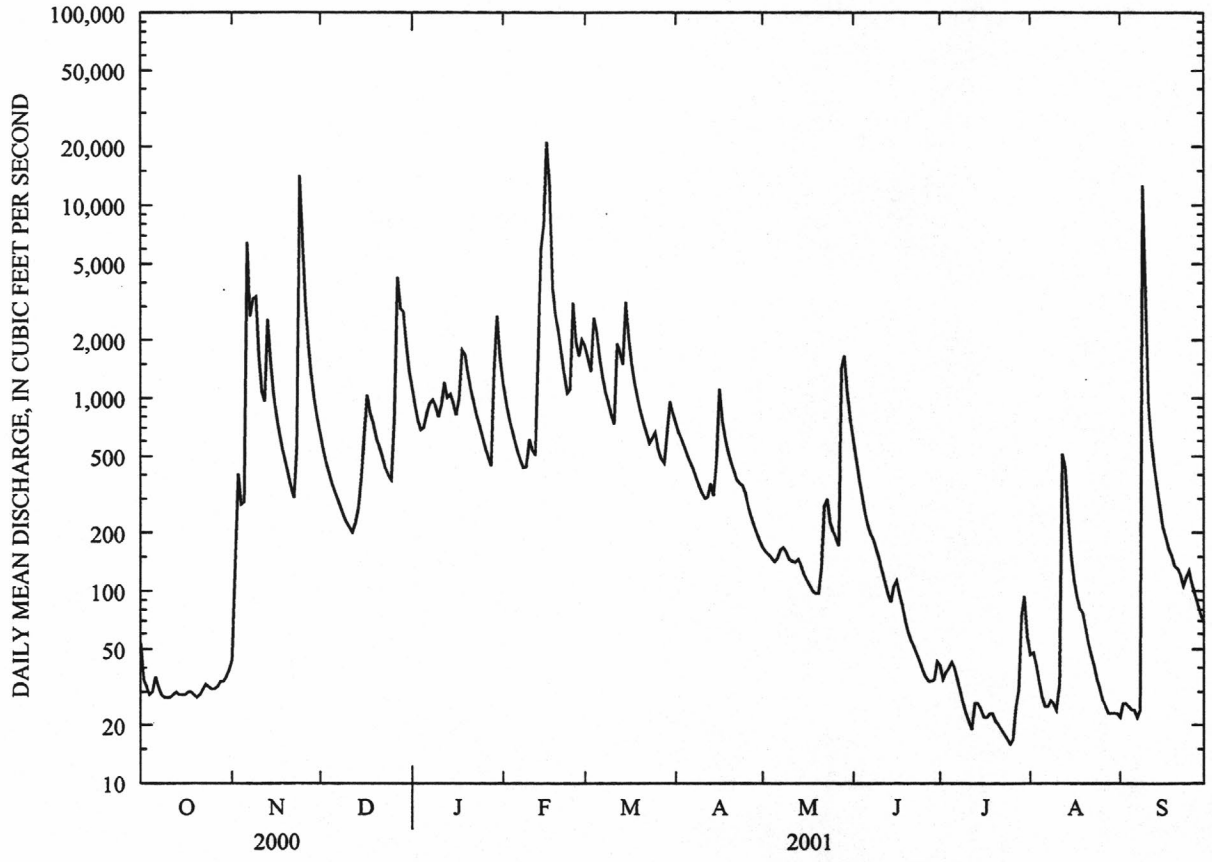
07356000 OUACHITA RIVER NEAR MOUNT IDA--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	371	752	1041	900	1140	1336	1110	1106	516	230	92.0	203
MAX	4031	3558	5373	3676	4574	5692	4230	3679	2084	1130	506	1470
(WY)	1985	1997	1983	1949	1945	1945	1957	1990	1974	1951	1950	1974
MIN	7.24	21.9	37.1	34.5	104	197	275	102	28.6	13.9	6.33	5.45
(WY)	1957	1964	1964	1964	1963	1972	1963	1977	1972	1954	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	228754		286980			
ANNUAL MEAN	625		786		731	
HIGHEST ANNUAL MEAN					1499	1945
LOWEST ANNUAL MEAN					263	1963
HIGHEST DAILY MEAN	14300	Nov 24	21200	Feb 16	79800	Dec 3 1982
LOWEST DAILY MEAN	15	Aug 12	16	Jul 25	2.5	Aug 25 1954
ANNUAL SEVEN-DAY MINIMUM	15	Sep 15	18	Jul 20	2.8	Aug 19 1954
MAXIMUM PEAK FLOW			28100	Feb 16	102000	Dec 3 1982
MAXIMUM PEAK STAGE			22.53	Feb 16	[a]39.78	Dec 3 1982
INSTANTANEOUS LOW FLOW			16	Jul 25,26	2.3	Aug 25 1954
ANNUAL RUNOFF (AC-FT)	453700		569200		529700	
10 PERCENT EXCEEDS	1270		1700		1600	
50 PERCENT EXCEEDS	240		290		249	
90 PERCENT EXCEEDS	17		27		32	

[a]From floodmark
[e]Estimated



07359002 OUACHITA RIVER BELOW REMMEL DAM AT JONES MILL

LOCATION.--Lat 34°25'50", long 92°52'51", in NE1/4NE1/4 sec.36, T.3 S., R.18 W., Hot Spring County, Hydrologic Unit 08040102, at left bank 0.25 mi downstream from confluence of Cove Creek, 0.8 mi downstream from Remmel Dam at Jones Mill and at mile 455.1.

DRAINAGE AREA.--1,550 mi^2.

PERIOD OF RECORD.--March 1903 to April 1905, June 1922 to September 1924 (fragmentary), October 1925 to April, 1927, January 1928 to current year. Published as "at Remmel Dam, near Malvern" January 1925 to March 1937, as "near Malvern (07359500)" April 1937 to September 1991.

REVISED RECORDS.--WSP 587: 1923. WSP 857: 1923(M). WSP 977: 1942. WSP 1391: 1903-4. WRD Ark. 1979: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 248.16 ft above sea level. March 1903 to April 1905, nonrecording gage 5.0 mi downstream at datum 18.11 ft lower. June 1922 to September 1924, nonrecording gage 5.0 mi downstream at datum 20.11 ft lower. January 1925 to March 1937, water-stage recorder at Remmel Dam, 0.8 mi upstream at present datum. April 1937 to September 1991 water-stage recorder 5.0 mi downstream at datum 20.11 ft lower.

REMARKS.--Records good. Flow regulated since 1925 by Lake Catherine, 0.8 mi upstream, capacity, 35,250 acre-ft, since 1932 by Lake Hamilton, capacity, 190,100 acre-ft, and since 1952 by Lake Ouachita, capacity, 2,768,400 acre-ft. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	588	2290	3000	6630	1010	7940	1830	348	e261	276	2500	828
2	932	3060	2760	6550	605	7480	2430	332	e696	1670	2530	837
3	578	3000	1700	6200	604	6720	2420	1240	e982	1670	2470	871
4	876	4250	2460	5210	611	8630	2490	323	e331	1690	802	1710
5	417	2780	3230	6140	594	4320	2560	310	262	825	788	757
6	312	2590	3310	6490	1400	613	2580	315	740	2870	2170	845
7	745	563	2170	6410	1880	581	2430	867	316	2020	e2170	740
8	584	3480	3020	6440	2550	2880	2420	552	323	1620	e2450	1050
9	565	1210	1950	6460	2180	5230	1210	244	807	2290	3000	428
10	967	582	1470	6460	2550	3870	1030	266	766	2850	e2440	905
11	561	691	2720	6340	1630	4230	1390	1040	1060	2880	e2820	833
12	306	1760	3180	3280	480	8430	1010	281	1290	2980	e2250	862
13	308	4490	3140	3740	2980	5930	1130	273	1600	3060	e2050	820
14	1710	597	3000	4040	5960	7840	671	270	1160	2680	2090	819
15	1030	770	3560	3450	6340	8370	5800	273	1260	1410	2130	1410
16	745	2570	3210	3920	26500	7580	2570	278	770	2820	2150	1380
17	722	518	2560	5750	10600	7300	1520	350	772	2950	2190	749
18	705	788	3640	5840	7270	6740	531	384	1290	3040	1850	764
19	393	1440	3150	5710	5580	7030	435	612	1610	2950	1840	775
20	287	2340	3360	4630	7200	6260	898	528	1430	2990	2060	778
21	299	3490	3800	5190	7430	6840	1290	894	1550	2040	2130	776
22	311	e2760	3240	5160	7260	5790	813	730	255	1310	2180	822
23	677	e2370	2960	4480	7280	3800	2620	623	1410	2640	2130	824
24	799	e11000	3270	3990	7320	3800	576	640	1060	2650	1970	379
25	316	9600	3100	3800	6890	3810	426	660	1120	2600	1900	354
26	321	5500	2890	4560	6070	3810	423	779	1640	2300	1970	336
27	321	3840	4290	4580	2610	3810	422	806	1390	1730	2130	355
28	324	3830	6050	3710	7870	3810	427	629	1750	792	2150	336
29	3000	3630	6500	3760	---	3820	430	e1510	1490	769	2170	356
30	2980	3060	6340	4200	---	3610	388	e2250	904	1930	2110	345
31	3510	---	6610	4580	---	2410	---	e529	---	2220	1820	---
TOTAL	26189	88849	105640	157700	141254	163284	45170	19136	30295	66522	65410	23044
MEAN	845	2962	3408	5087	5045	5267	1506	617	1010	2146	2110	768
MAX	3510	11000	6610	6630	26500	8630	5800	2250	1750	3060	3000	1710
MIN	287	518	1470	3280	480	581	388	244	255	276	788	336
AC-FT	51950	176200	209500	312800	280200	323900	89590	37960	60090	131900	129700	45710

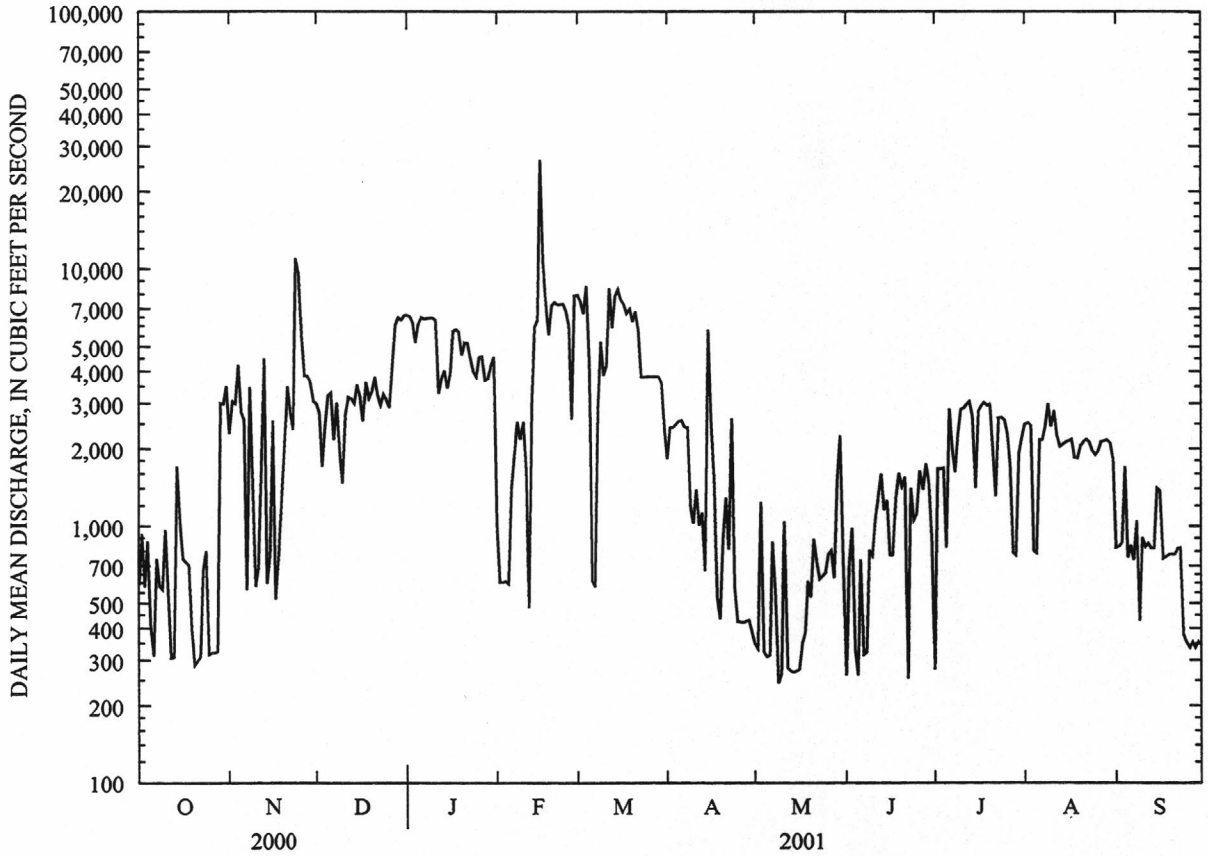
07359002 OUACHITA RIVER BELOW REMMEL DAM AT JONES MILL--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	1320	2167	3235	3737	3422	3437	3626	3433	1823	1224	1113	1143
MAX	6425	9717	13790	13560	11880	17230	13620	12550	9436	3602	2850	4224
(WY)	1985	1985	1983	1949	1950	1945	1952	1946	1974	1967	1966	1950
MIN	126	97.1	395	87.1	417	442	403	263	161	98.2	93.5	95.7
(WY)	1933	1944	1940	1931	1936	1966	1963	1936	1934	1930	1930	1943

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	733437		932493			
ANNUAL MEAN	2004		2555		2469	
HIGHEST ANNUAL MEAN					5209	1973
LOWEST ANNUAL MEAN					746	1954
HIGHEST DAILY MEAN	11000	Nov 24	26500	Feb 16	104000	Mar 30 1945
LOWEST DAILY MEAN	287	Oct 20	244	May 9	39	Jun 22 1929
ANNUAL SEVEN-DAY MINIMUM	430	Oct 20	301	May 12	58	Nov 13 1943
MAXIMUM PEAK FLOW			41400	Feb 16	[a]166000	May 20 1990
MAXIMUM PEAK STAGE			17.19	Feb 16	[bc]30.30	May 15 1923
ANNUAL RUNOFF (AC-FT)	1455000		1850000		1789000	
10 PERCENT EXCEEDS	3990		6290		5700	
50 PERCENT EXCEEDS	1320		2020		1450	
90 PERCENT EXCEEDS	484		370		283	

[a]From rating curve extended above 120,000 ft^3/s on basis of computations of peak flow over Remmel Dam, 0.8 mi upstream, adjusted for flow from intervening area
[b]From floodmark
[c]Maximum gage height for period of record at different site and datum
[e]Estimated



07359610 CADDO RIVER NEAR CADDO GAP

LOCATION.--Lat 34°22'59", long 93°36'21", in SW1/4NE1/4 sec.19, T.4 S., R.24 W., Montgomery County, Hydrologic Unit 08040102, at downstream side of bridge on State Highway 240, 1.3 mi southeast of Caddo Gap.

DRAINAGE AREA.--132 mi^2.

PERIOD OF RECORD.--October 1988 to current year. Results of discharge measurements April 1975 to September 1978 are contained in reports of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 577.81 ft above sea level.

REMARKS.--Records good, except estimated daily discharges which are fair and those above 10,000 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	42	169	384	391	640	157	96	300	e63	45	41
2	37	169	140	330	337	496	144	97	232	e59	43	39
3	36	109	122	289	298	427	136	98	189	e56	41	41
4	37	145	107	270	269	797	126	98	159	e52	39	42
5	35	194	96	272	243	532	118	97	139	e49	36	38
6	37	1110	90	301	222	420	112	97	137	e46	35	37
7	38	393	85	337	207	358	106	111	146	e44	58	36
8	36	1130	79	364	193	315	101	158	128	e42	49	35
9	37	715	74	340	207	284	95	116	115	39	42	503
10	38	348	71	303	205	251	92	100	e104	48	39	209
11	38	244	71	462	188	242	91	106	e96	47	67	103
12	39	463	68	490	187	1060	91	116	e89	45	61	71
13	37	1110	88	443	1770	508	91	99	e84	84	48	56
14	36	414	86	496	2410	438	113	98	e81	92	42	47
15	35	289	94	434	2280	803	1190	97	e99	61	40	41
16	37	228	213	382	10500	465	526	97	e91	53	39	38
17	37	176	248	562	2280	336	315	96	e84	51	54	37
18	37	141	209	696	961	274	243	96	e80	50	112	36
19	38	118	192	758	589	234	204	96	e74	47	64	36
20	38	100	164	555	451	205	180	96	e70	45	49	34
21	39	87	150	460	375	181	160	143	e67	42	42	34
22	40	81	129	394	321	161	142	112	e63	40	38	34
23	39	411	119	346	281	147	166	94	e62	39	36	32
24	39	4750	109	309	302	148	160	111	e59	37	34	32
25	38	1820	112	273	375	128	134	97	e58	36	33	31
26	37	653	650	247	314	115	120	94	e57	36	31	30
27	43	405	1560	224	433	108	112	94	e56	48	33	29
28	45	308	924	205	830	111	104	384	e54	72	43	28
29	42	247	774	581	---	174	98	362	e57	73	37	27
30	42	201	544	643	---	198	96	545	e69	66	33	27
31	42	---	446	470	---	176	---	375	---	50	37	---
TOTAL	1187	16601	7983	12620	27419	10732	5523	4476	3099	1612	1400	1824
MEAN	38.3	553	258	407	979	346	184	144	103	52.0	45.2	60.8
MAX	45	4750	1560	758	10500	1060	1190	545	300	92	112	503
MIN	35	42	68	205	187	108	91	94	54	36	31	27
AC-FT	2350	32930	15830	25030	54390	21290	10950	8880	6150	3200	2780	3620
CFSM	.28	4.07	1.89	2.99	7.20	2.55	1.35	1.06	.76	.38	.33	.45
IN.	.32	4.54	2.18	3.45	7.50	2.94	1.51	1.22	.85	.44	.38	.50

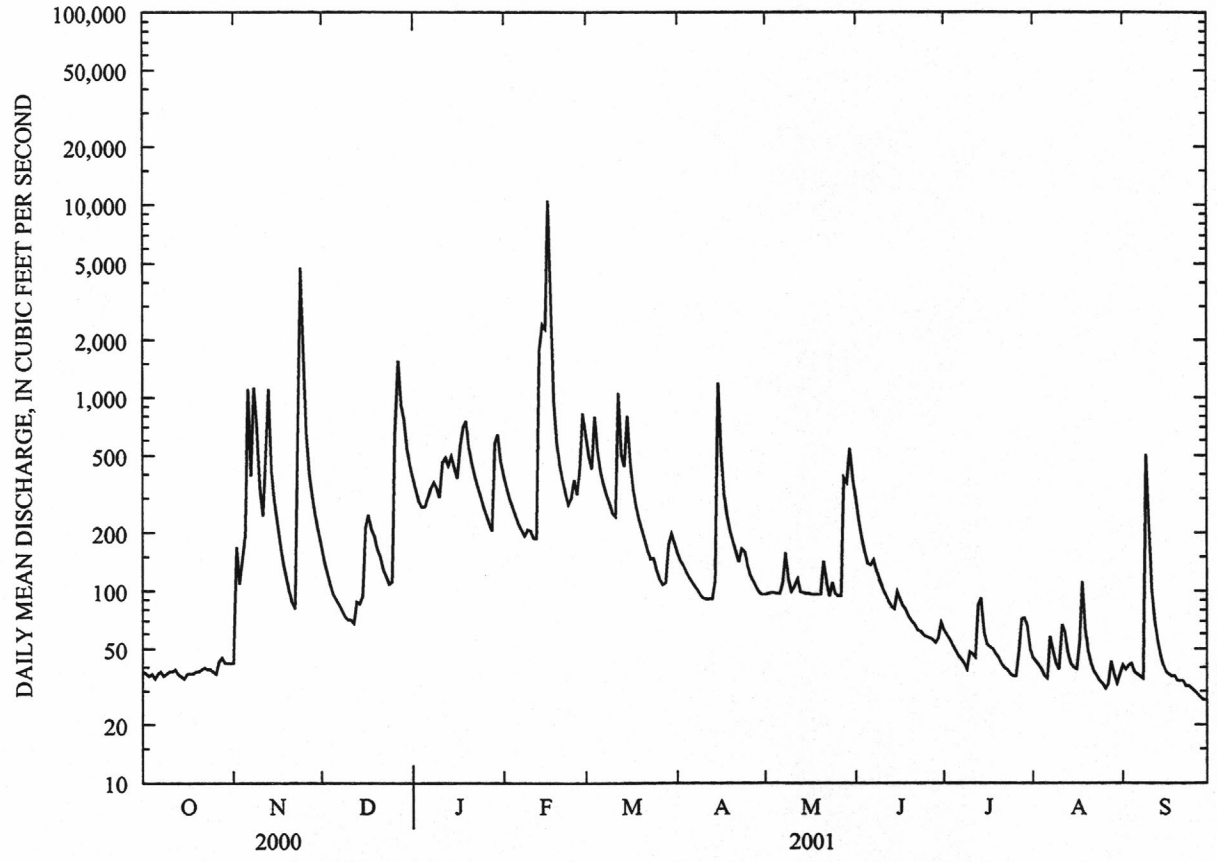
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

MEAN	181	390	447	398	402	422	314	346	186	104	64.9	81.4
MAX	405	1149	1289	799	979	886	578	1176	599	266	203	177
(WY)	1994	1997	1994	1994	2001	1990	1991	1990	2000	1995	1994	1994
MIN	38.3	52.5	50.9	76.4	112	182	111	103	80.6	39.0	26.9	35.5
(WY)	2001	1990	1990	2000	1996	1996	1992	1997	1994	1998	2000	1999

07359610 CADDO RIVER NEAR CADDO GAP--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001	
ANNUAL TOTAL	78165		94476			
ANNUAL MEAN	214		259		277	
HIGHEST ANNUAL MEAN					389	1994
LOWEST ANNUAL MEAN					157	1996
HIGHEST DAILY MEAN	4750	Nov 24	10500	Feb 16	28600	Dec 3 1993
LOWEST DAILY MEAN	24	Aug 27	27	Sep 29	24	Aug 27 2000
ANNUAL SEVEN-DAY MINIMUM	24	Sep 16	29	Sep 24	24	Sep 16 2000
MAXIMUM PEAK FLOW			[a]25900	Feb 16	[a]97200	Dec 3 1993
MAXIMUM PEAK STAGE			17.59	Feb 16	26.27	Dec 3 1993
INSTANTANEOUS LOW FLOW			27	Sep 28-30	23	at times
ANNUAL RUNOFF (AC-FT)	155000		187400		201000	
ANNUAL RUNOFF (CFSM)	1.57		1.90		2.04	
ANNUAL RUNOFF (INCHES)	21.38		25.84		27.72	
10 PERCENT EXCEEDS	404		499		500	
50 PERCENT EXCEEDS	92		104		118	
90 PERCENT EXCEEDS	26		37		43	

[a]From rating curve extended above 10,000 ft^3/s on basis of slope-conveyance study
[e]Estimated



07360200 LITTLE MISSOURI RIVER NEAR LANGLEY

LOCATION.--Lat 34°18'41", long 93°53'58", in NW1/4SW1/4 sec.16, T.5 S., R.27 W., Pike County, Hydrologic Unit 08040103, at bridge on State Highway 84, 3.3 mi west of Langley.

DRAINAGE AREA.--68.4 mi^2.

PERIOD OF RECORD.--October 1998 to current year. Occasional low-flow measurements water years 1958-63, occasional measurements 1974-98, and annual maximum water years 1989-98.

GAGE.--Water-stage recorder.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 8, 1990, reached a stage of 17.34 ft, discharge, 23,200 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	25	102	155	148	465	97	59	264	37	18	19
2	19	120	89	119	112	353	87	57	175	29	18	19
3	18	62	79	98	93	273	79	54	127	26	17	19
4	18	76	73	89	82	417	72	52	99	26	17	17
5	18	102	68	92	70	342	66	51	83	26	17	17
6	25	1390	66	104	63	247	63	59	85	24	18	18
7	22	340	64	114	59	183	59	84	88	22	41	19
8	20	882	62	134	55	145	56	110	74	21	25	17
9	19	610	59	126	59	122	53	75	63	19	20	819
10	19	296	59	106	68	106	51	63	56	19	19	150
11	19	184	58	133	66	103	51	58	51	19	45	70
12	19	189	61	160	64	790	49	58	47	19	35	48
13	19	511	69	159	2020	478	46	51	44	23	25	36
14	18	296	67	205	1610	641	73	47	42	27	21	30
15	18	192	67	198	1240	985	1030	45	56	22	19	26
16	20	144	155	160	4630	522	523	43	46	20	19	24
17	21	110	223	226	1170	322	298	42	40	19	21	22
18	19	90	171	337	517	216	194	41	36	19	23	21
19	19	79	143	339	309	148	142	40	36	18	21	25
20	18	70	125	271	204	116	119	38	33	17	19	22
21	19	62	113	204	144	95	100	69	32	17	18	20
22	20	59	97	149	117	85	86	58	31	16	17	20
23	20	429	92	118	98	78	122	47	29	16	e17	21
24	19	2760	89	101	105	81	131	59	28	16	e17	39
25	19	1110	88	86	169	70	108	53	27	16	e17	29
26	18	515	557	77	150	65	94	46	26	19	e16	24
27	24	310	1020	70	232	62	82	67	26	23	e16	21
28	25	210	547	64	645	63	75	4420	25	35	16	20
29	22	152	434	321	---	85	68	708	25	27	16	19
30	21	118	295	374	---	117	63	385	43	22	16	18
31	24	---	212	223	---	111	---	368	---	19	18	---
TOTAL	618	11493	5404	5112	14299	7886	4137	7407	1837	678	642	1669
MEAN	19.9	383	174	165	511	254	138	239	61.2	21.9	20.7	55.6
MAX	25	2760	1020	374	4630	985	1030	4420	264	37	45	819
MIN	18	25	58	64	55	62	46	38	25	16	16	17
AC-FT	1230	22800	10720	10140	28360	15640	8210	14690	3640	1340	1270	3310
CFSM	.29	5.60	2.55	2.41	7.47	3.72	2.02	3.49	.90	.32	.30	.81
IN.	.34	6.25	2.94	2.78	7.78	4.29	2.25	4.03	1.00	.37	.35	.91

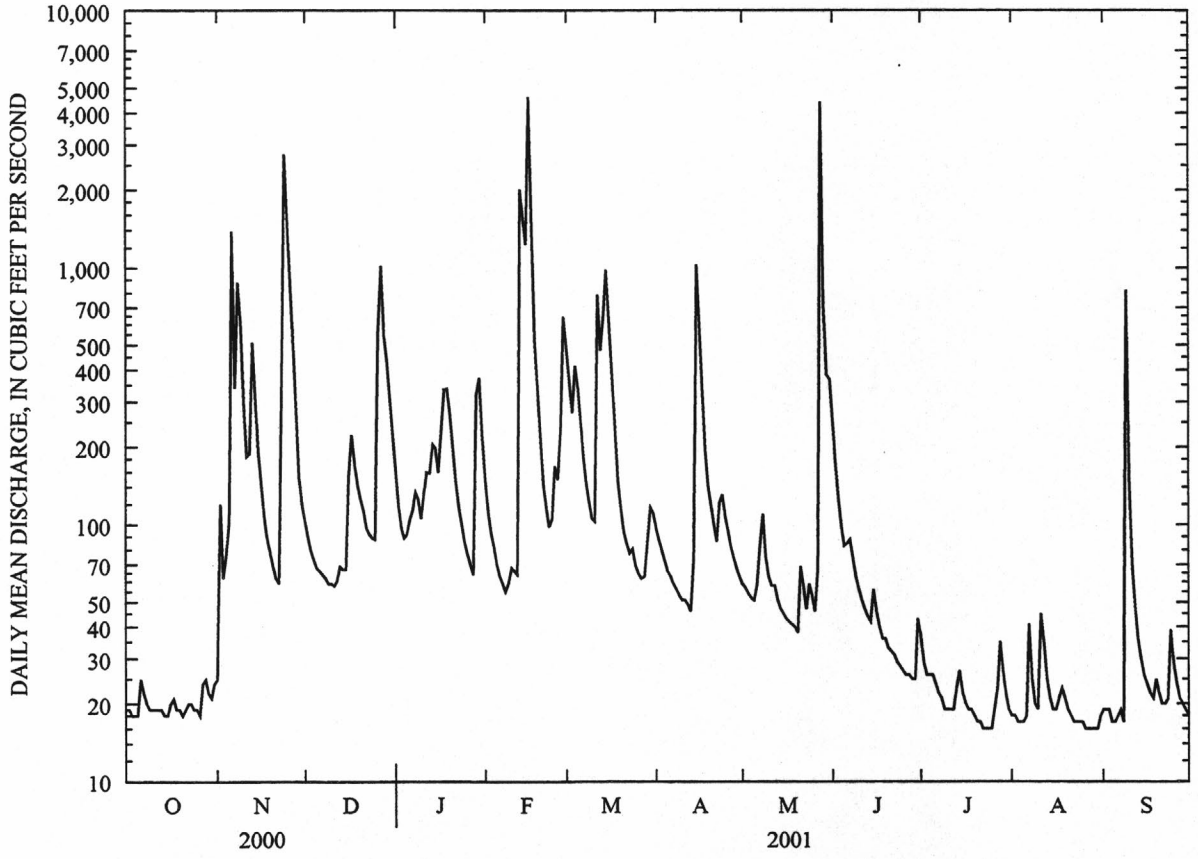
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	78.1	172	260	153	291	223	180	174	171	36.0	16.4	31.3
MAX	177	383	331	231	511	255	313	239	352	50.6	20.7	55.6
(WY)	1999	2001	1999	1999	2001	1999	1999	2001	2000	1999	2001	2001
MIN	19.9	60.3	174	64.0	162	160	87.5	95.2	61.2	21.9	12.5	15.0
(WY)	2001	2000	2001	2000	1999	2000	2000	1999	2001	2001	2000	2000

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	51326.9		61182			
ANNUAL MEAN	140		168		148	
HIGHEST ANNUAL MEAN					168	2001
LOWEST ANNUAL MEAN					124	2000
HIGHEST DAILY MEAN	2760	Nov 24	4630	Feb 16	4630	Feb 16 2001
LOWEST DAILY MEAN	7.4	Sep 22	16	Jul 22	7.4	Sep 22 2000
ANNUAL SEVEN-DAY MINIMUM	7.8	Sep 16	16	Aug 24	7.8	Sep 16 2000
MAXIMUM PEAK FLOW			[a]13000	Feb 16	[a]13000	Feb 16 2001
MAXIMUM PEAK STAGE			13.05	Feb 16	13.05	Feb 16 2001
INSTANTANEOUS LOW FLOW			15	Aug 29	5.4	Aug 30 2000
ANNUAL RUNOFF (AC-FT)	101800		121400		107100	
ANNUAL RUNOFF (CFSM)	2.05		2.45		2.16	
ANNUAL RUNOFF (INCHES)	27.91		33.27		29.38	
10 PERCENT EXCEEDS	285		341		305	
50 PERCENT EXCEEDS	67		63		64	
90 PERCENT EXCEEDS	12		19		17	

[a]From rating curve extended above 2,,300 ft[e]/s on basis of slope-conveyance study
[e]Estimated



07361500 ANTOINE RIVER AT ANTOINE

LOCATION.--Lat 34°02'20", long 93°25'05", in NW1/4NW1/4 sec.24, T.8 S., R.23 W., Pike County, Hydrologic Unit 08040103, near right bank on downstream side of bridge on State Highway 26 at Antoine, 1.6 mi downstream from Brushy Creek, 1.9 mi downstream from Suck Creek, and at mile 8.5.

DRAINAGE AREA.--178 mi^2.

PERIOD OF RECORD.--October 1954 to current year. Gage-height records collected in this vicinity since November 1950 (published as "Antoine Creek") are contained in reports of U.S. Army Corps of Engineers.

REVISED RECORDS.--WSP 1511: 1955(M). WRD Ark. 1973: 1972. WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 229.33 ft above sea level. Prior to Oct. 22, 1954, at site 75 ft upstream at present datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1905 reached a stage of 29.7 ft, from information by State Highway and Transportation Department, discharge, 40,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.9	202	549	306	1270	117	38	1120	405	18	9.2
2	.89	7.0	163	422	256	957	97	35	629	227	11	3.5
3	.74	8.6	127	346	221	746	86	32	434	129	7.5	2.5
4	.79	45	107	306	198	2040	78	29	336	83	5.3	33
5	.82	75	91	307	171	1110	68	27	293	60	3.6	6.9
6	2.1	186	81	341	147	725	63	36	410	44	2.3	2.6
7	1.8	239	72	360	131	529	57	e293	372	34	1.6	1.4
8	1.7	461	63	338	117	409	49	e467	311	26	1.2	.94
9	1.7	632	56	293	117	332	43	e330	254	20	.84	83
10	1.3	255	51	254	135	267	39	e272	205	15	.75	46
11	1.4	144	48	630	108	259	36	e254	155	12	.65	18
12	2.6	150	42	768	125	2330	34	135	116	9.1	.57	13
13	2.8	1540	65	570	1040	1170	37	125	90	10	.52	13
14	2.5	591	157	780	3030	788	108	94	73	90	.42	7.6
15	2.7	322	229	558	2460	1720	849	74	122	77	.35	4.4
16	3.3	328	590	428	12400	992	760	60	133	41	.48	2.6
17	3.7	292	526	1090	4930	643	348	51	92	27	7.4	1.7
18	3.4	197	381	2050	1530	477	227	43	61	18	2.0	1.3
19	3.3	152	302	1630	1020	371	172	40	46	13	.70	.94
20	3.5	116	249	952	752	300	129	35	37	9.7	1.3	.73
21	3.8	89	219	669	582	249	103	80	31	7.6	.98	.68
22	3.8	74	179	496	466	210	82	98	29	5.7	.85	.73
23	3.1	232	148	395	369	178	151	83	24	4.2	1.7	1.0
24	2.9	4330	134	330	341	172	211	71	21	3.1	4.4	1.2
25	3.2	2040	125	272	363	148	116	69	19	2.4	2.4	2.1
26	3.1	929	759	236	272	110	82	63	17	1.7	1.9	1.2
27	2.4	568	3900	208	388	92	67	48	19	1.5	1.5	1.1
28	2.2	402	2750	182	1190	86	57	8070	73	2.8	1.3	1.3
29	2.4	314	1650	413	---	139	49	2670	32	121	1.1	1.3
30	2.4	243	1040	658	---	206	42	859	225	54	1.3	1.4
31	2.4	---	726	399	---	143	---	1460	---	35	15	---
TOTAL	73.84	14963.5	15232	17230	33165	19168	4357	16041	5779	1588.8	98.91	264.32
MEAN	2.38	499	491	556	1184	618	145	517	193	51.3	3.19	8.81
MAX	3.8	4330	3900	2050	12400	2330	849	8070	1120	405	18	83
MIN	.74	1.9	42	182	108	86	34	27	17	1.5	.35	.68
AC-FT	146	29680	30210	34180	65780	38020	8640	31820	11460	3150	196	524
CFSM	.01	2.80	2.76	3.12	6.65	3.47	.82	2.91	1.08	.29	.02	.05
IN.	.02	3.13	3.18	3.60	6.93	4.01	.91	3.35	1.21	.33	.02	.06

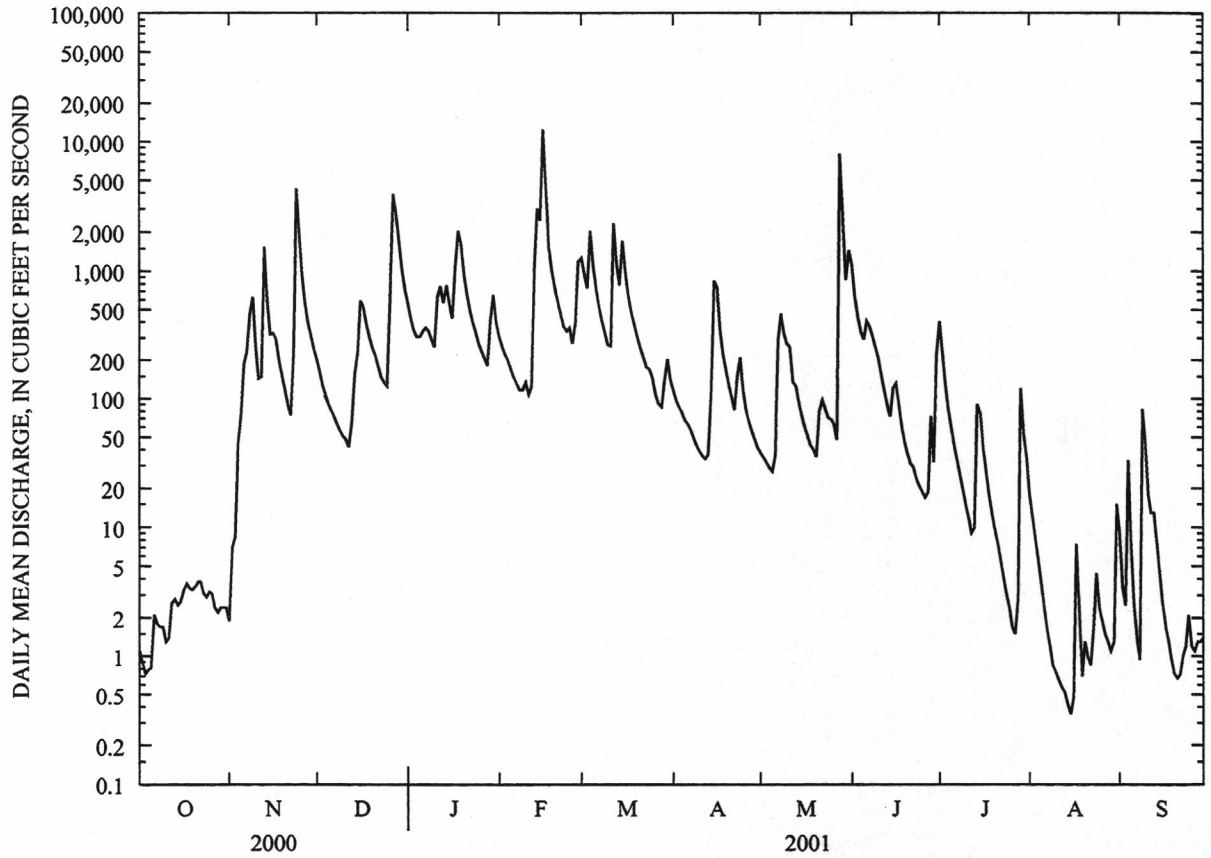
07361500 ANTOINE RIVER AT ANTOINE--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2001, BY WATER YEAR (WY)

MEAN	107	300	427	358	458	522	462	411	182	88.9	36.4	37.6
MAX	838	1271	1958	1038	1344	1325	1548	2266	1430	823	598	439
(WY)	1985	1974	1988	1999	1989	1990	1973	1968	1974	1983	1966	1980
MIN	.000	.37	1.48	21.4	76.3	74.0	32.7	15.1	3.34	.13	.013	.020
(WY)	1957	1957	1966	1966	1963	1972	1972	1988	1966	1998	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1955 - 2001	
ANNUAL TOTAL	70302.83		127961.37			
ANNUAL MEAN	192		351		282	
HIGHEST ANNUAL MEAN					551	1973
LOWEST ANNUAL MEAN					109	1971
HIGHEST DAILY MEAN	4330	Nov 24	12400	Feb 16	20500	May 2 1958
LOWEST DAILY MEAN	.10	Sep 9	.35	Aug 15	.00	Aug 4 1956
ANNUAL SEVEN-DAY MINIMUM	.10	Sep 9	.53	Aug 10	.00	Aug 4 1956
MAXIMUM PEAK FLOW			18300	Feb 16	35500	May 2 1958
MAXIMUM PEAK STAGE			24.68	Feb 16	28.75	May 2 1958
INSTANTANEOUS LOW FLOW			.31	Aug 15,16	.00	at times
ANNUAL RUNOFF (AC-FT)	139400		253800		204000	
ANNUAL RUNOFF (CFSM)	1.08		1.97		1.58	
ANNUAL RUNOFF (INCHES)	14.69		26.74		21.49	
10 PERCENT EXCEEDS	480		773		601	
50 PERCENT EXCEEDS	60		90		68	
90 PERCENT EXCEEDS	.29		1.4		1.5	

[e]Estimated



07362000 OUACHITA RIVER AT CAMDEN

LOCATION.--Lat 33°35'47", long 92°49'05", in SE1/4 sec.14, T.13 S., R.17 W., Ouachita County, Hydrologic Unit 08040102, at bridge on U.S. Highway 79B at Camden, 3.4 mi downstream from Ecore Fabre Bayou, 6.2 mi upstream from Two Bayou Creek, and at mile 354.1.

DRAINAGE AREA.--5,357 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1928 to September 1960 and October 1965 to current year in reports of Geological Survey. October 1929 to date in reports of U.S. Army Corps of Engineers. Monthly discharge only, October 1929 to September 1960 published in WSP 1311 and WSP 1731. Gage heights collected since 1885 in this vicinity are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 71.69 ft above sea level. Aug. 8, 1928, to July 10, 1935, and July 11, 1935, to Jan. 4, 1945, nonrecording gage at present site and datum. Jan. 5, 1945, to Oct. 27, 1947, nonrecording gage at site 0.4 mi downstream at present datum. Aug. 10, 1938, to May 31, 1949, supplementary nonrecording gage, 4.5 mi upstream. Since Jan. 1, 1957, auxiliary water-stage recorder, 3.2 mi downstream.

REMARKS.--No estimated daily discharges. Water-discharge records good. Flow regulated since 1925 by Lake Catherine, 102 mi upstream, capacity, 35,250 acre-ft, since 1932 by Lake Hamilton, capacity, 190,100 acre-ft, since 1949 by Lake Greeson, capacity, 407,900 acre-ft, since 1952 by Lake Ouachita, capacity, 2,768,400 acre-ft, and since August 1969 by DeGray Lake, capacity, 881,900 acre-ft. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	2780	10300	38000	13600	27200	7880	1550	17000	3720	2130	2840
2	1000	3180	7930	37700	12300	32700	6850	1420	20300	3210	3130	3330
3	742	2350	7180	31600	9230	37000	5980	1210	22200	2760	3500	2620
4	943	3000	5170	23600	7350	39400	5810	1520	20100	3760	3490	1800
5	970	2970	4520	19200	6570	39600	5550	2060	16200	4200	3070	1890
6	1440	4130	6160	17100	5060	39600	5550	1610	12600	3960	1720	2610
7	1300	3080	6960	16700	4500	35600	5370	1760	11000	3160	1330	2530
8	1010	2900	6470	16200	4080	28800	5320	4000	10500	4990	2150	2120
9	957	2590	5510	14900	4040	21900	4810	9090	9730	4720	3010	1750
10	984	5990	4850	14000	4280	18900	4440	12600	8180	4000	3150	1670
11	895	4400	3590	14300	5380	17000	3410	11700	6030	4000	3370	1620
12	1010	2710	3330	14500	5800	15200	2960	9170	4540	4610	3550	1600
13	1010	1930	4290	14600	5700	19600	3270	6860	3260	4600	3230	1460
14	966	5690	6520	14100	8380	25800	4470	4850	3510	4830	2950	1280
15	863	7100	7170	13800	15700	29800	8020	2840	3750	4880	2470	1030
16	1270	3880	9740	13200	20900	33200	13900	3620	3610	3490	2640	1140
17	1200	3120	13000	12500	31100	35200	19800	2560	2970	3080	2630	1800
18	977	4070	14200	14400	47100	34800	19900	2000	2260	3640	2970	1830
19	1170	3160	13700	20800	66300	33100	16500	2090	1860	4040	2790	1130
20	1230	3080	12300	27200	83800	28800	11700	2670	1960	4190	2310	1060
21	1180	2400	10600	32700	80100	24500	7670	3260	2360	4420	1960	1080
22	1030	3260	9850	35300	65300	20600	5600	6300	2830	4390	2010	979
23	886	3590	9250	35000	50400	18400	5280	9900	2680	2960	2150	1010
24	856	6360	7930	29200	39500	15300	4690	8930	2050	2260	2220	975
25	890	16500	6190	22700	32000	11500	5180	6540	2130	3670	2520	1080
26	1100	23800	6020	19000	29100	9290	4010	5330	1750	4240	2360	983
27	1160	27800	9150	17000	26800	8200	2830	4030	1930	3630	2030	888
28	939	28800	16900	14400	24900	8000	2290	2870	2790	3200	1920	874
29	850	24000	22300	11000	---	8700	1990	5280	3080	2860	1970	817
30	953	15900	27600	10600	---	8280	1710	10900	3410	1630	2070	851
31	2190	---	33700	12700	---	8270	---	13300	---	1400	2270	---
TOTAL	33001	224520	312380	628000	709270	734240	202740	161820	206570	114500	79070	46647
MEAN	1065	7484	10080	20260	25330	23690	6758	5220	6886	3694	2551	1555
MAX	2190	28800	33700	38000	83800	39600	19900	13300	22200	4990	3550	3330
MIN	742	1930	3330	10600	4040	8000	1710	1210	1750	1400	1330	817
AC-FT	65460	445300	619600	1246000	1407000	1456000	402100	321000	409700	227100	156800	92520

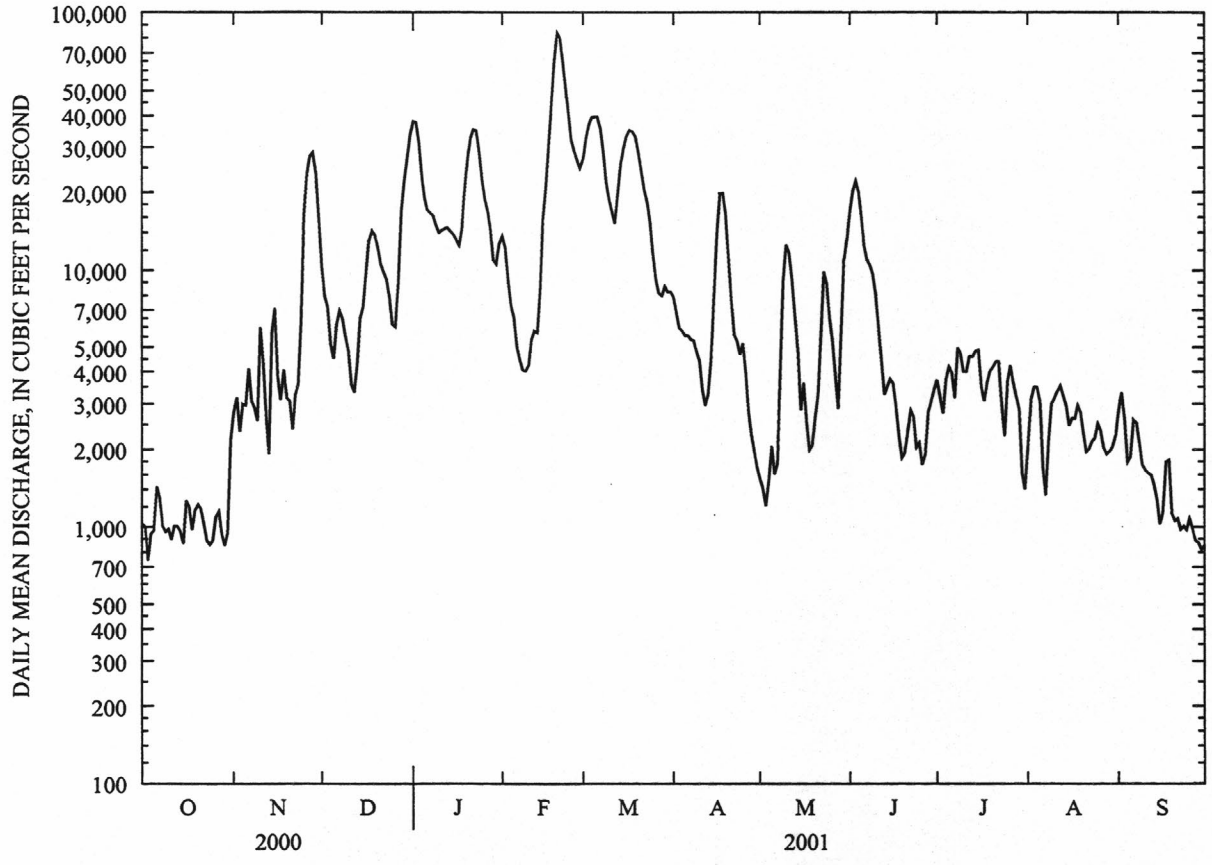
07362000 OUACHITA RIVER AT CAMDEN--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	2455	5260	9331	12270	12430	12940	12920	12420	5263	2878	1997	2232
MAX	18200	25370	41930	46610	40110	45110	48110	52200	31090	13640	7469	19410
(WY)	1985	1973	1983	1937	1950	1945	1945	1968	1974	1989	1966	1974
MIN	291	381	740	686	1542	1742	1578	1674	411	260	176	154
(WY)	1933	1933	1940	1940	1936	1954	1930	1932	1936	1930	1930	1943

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	1770288		3452758			
ANNUAL MEAN	4837		9460		7678	
HIGHEST ANNUAL MEAN					16120	1973
LOWEST ANNUAL MEAN					2292	1936
HIGHEST DAILY MEAN	33700	Dec 31	83800	Feb 20	238000	Apr 3 1945
LOWEST DAILY MEAN	742	Oct 3	742	Oct 3	125	Sep 16 1943
ANNUAL SEVEN-DAY MINIMUM	954	Oct 23	924	Sep 24	132	Sep 11 1943
MAXIMUM PEAK FLOW			87700	Feb 20	243000	Apr 3 1945
MAXIMUM PEAK STAGE			37.55	Feb 20	44.82	Apr 3 1945
INSTANTANEOUS LOW FLOW			623	Oct 3	125	[a]Sep 16 1943
ANNUAL RUNOFF (AC-FT)	3511000		6849000		5562000	
10 PERCENT EXCEEDS	11300		27000		19300	
50 PERCENT EXCEEDS	3000		4290		3440	
90 PERCENT EXCEEDS	1040		1150		788	

[a]Also September 24-26, 1943



07362000 OUACHITA RIVER AT CAMDEN--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-52, October 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT													
18...	0755	81213	80513	942	768	6.9	74.0	6.5	86	19.1	23.7	6.70	1.70
JAN													
17...	0745	81213	80513	13000	780	9.2	67.3	7.7	72	3.3	22.5	6.70	1.40
FEB													
28...	0930	81213	80513	25500	783	10.2	89.3	7.1	56	10.9	17.3	5.10	1.10
MAY													
09...	0930	81213	80513	8260	767	6.5	74.3	7.0	55	22.4	16.1	4.80	1.00
JUN													
20...	0700	81213	80513	2110	768	6.8	87.7	6.7	83	28.6	22.7	6.80	1.40
AUG													
29...	0945	81213	80513	1820	778	6.8	84.1	7.6	70	27.3	20.4	5.70	1.50

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT												
18...	1.20	.554	6.2	34.8	4.2	11.0	50	<.010	.42	--	<.020	<.010
JAN												
17...	1.20	.321	3.5	24.1	3.7	8.2	53	<.010	.21	--	.250	<.010
FEB												
28...	1.10	.262	2.5	22.6	2.7	5.9	43	.012	.45	.015	.200	<.010
MAY												
09...	1.30	.380	3.5	30.0	3.7	5.2	28	.010	.70	.013	.140	<.010
JUN												
20...	.90	.511	5.6	33.8	4.7	8.8	55	.010	.46	.013	.140	<.010
AUG												
29...	1.10	.433	4.5	31.0	3.2	7.8	45	.020	<.20	.026	.090	<.010

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT												
18...	--	--	--	<.020	<.010	<.020	120	100	E70	92	19	48
JAN												
17...	--	.460	--	.020	<.010	.050	E90	70	120	95	30	1050
FEB												
28...	.438	.650	.031	.020	.010	.030	E380	160	110	96	29	2000
MAY												
09...	.690	.840	.031	<.020	.010	.070	880	1600	220	93	93	2070
JUN												
20...	.450	.600	--	<.020	<.010	.050	E17	E9	E21	99	23	131
AUG												
29...	--	--	--	<.020	<.010	<.020	<2	E24	E4	91	29	143

Remark Codes Used in This report:
< -- Less than
E -- Estimated value

07362100 SMACKOVER CREEK NEAR SMACKOVER

LOCATION.--Lat 33°22'33", long 92°46'37", in NW1/4SE1/4 sec.32, T.15 S., R.16 W., Union County, Hydrologic Unit 08040201, near right bank on downstream side of bridge on State Highway 7, 0.1 mi downstream from Camp Creek, 3.3 mi northwest of Smackover, and at mile 22.0.

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--October 1961 to current year. Gage-height records collected and occasional discharge measurements made by U.S. Army Corps of Engineers at this site since September 1938. Daily stages 1940 to date and results of discharge measurements 1947 to 1960 are published in reports of U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1967: 1965. WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 97.56 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Mar. 1, 1989, water-stage recorder at site 100 ft downstream at same datum. Mar. 1, 1989 to Sept. 4, 1991, non-recording gage at same site and datum.

REMARKS.--Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1938, that of June 8, 1974.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	12	288	2170	1360	10500	878	119	21000	115	8.8	38
2	3.1	16	205	e1750	1120	8810	709	110	10100	249	8.4	70
3	2.7	21	164	e1380	900	5420	560	103	4170	278	8.1	118
4	2.5	28	139	984	697	3870	464	98	2280	189	7.9	103
5	2.4	39	122	676	467	3330	413	92	1660	164	9.1	91
6	2.9	49	111	509	349	2960	389	92	1250	128	8.4	55
7	3.5	48	105	447	302	2450	362	846	874	96	7.3	43
8	4.7	100	100	405	275	2060	316	2250	657	76	6.7	30
9	4.1	209	96	354	265	1810	276	2660	547	65	6.4	30
10	3.7	245	92	303	275	1620	247	2400	589	61	6.1	47
11	3.5	235	89	283	285	1420	224	1820	615	50	6.2	48
12	3.2	158	84	322	518	2870	205	1360	494	39	7.8	59
13	3.0	97	122	354	1280	7380	330	791	293	37	7.8	41
14	3.0	73	423	359	2040	7730	663	277	176	38	7.6	28
15	2.9	63	675	345	2630	5150	1320	181	152	38	6.8	21
16	2.7	64	887	316	6740	3930	1880	148	173	34	6.6	17
17	2.8	71	1100	637	19300	3220	2420	128	179	30	6.4	15
18	3.1	69	1230	2320	15200	2390	2330	113	151	27	7.9	13
19	3.7	67	1090	4590	6520	1930	1920	577	116	24	8.5	14
20	3.8	55	912	5500	3130	1570	1470	609	92	22	7.7	19
21	3.9	44	725	4350	2340	1190	945	351	86	19	7.6	18
22	3.9	37	409	2810	2080	841	489	306	247	17	10	19
23	5.0	40	261	2030	1790	618	312	269	499	15	8.7	19
24	6.3	767	212	1590	1530	519	264	269	640	14	7.1	27
25	7.7	1520	192	1220	1320	658	242	225	550	12	6.1	79
26	8.8	1750	221	866	1170	775	217	147	207	11	5.5	130
27	9.4	1770	1020	581	1470	786	189	113	122	11	19	82
28	10	1770	2170	418	5160	736	164	100	100	11	22	45
29	11	1420	3180	525	---	720	146	96	86	11	14	30
30	11	771	3650	1070	---	879	131	94	93	9.9	13	22
31	12	---	2920	1340	---	986	---	10300	---	9.3	20	---
TOTAL	154.4	11608	22994	40804	80513	89128	20475	27044	48198	1900.2	283.5	1371
MEAN	4.98	387	742	1316	2875	2875	682	872	1607	61.3	9.15	45.7
MAX	12	1770	3650	5500	19300	10500	2420	10300	21000	278	22	130
MIN	2.4	12	84	283	265	519	131	92	86	9.3	5.5	13
AC-FT	306	23020	45610	80930	159700	176800	40610	53640	95600	3770	562	2720
CFSM	.01	1.01	1.93	3.42	7.47	7.47	1.77	2.27	4.17	.16	.02	.12
IN.	.01	1.12	2.22	3.94	7.78	8.61	1.98	2.61	4.66	.18	.03	.13

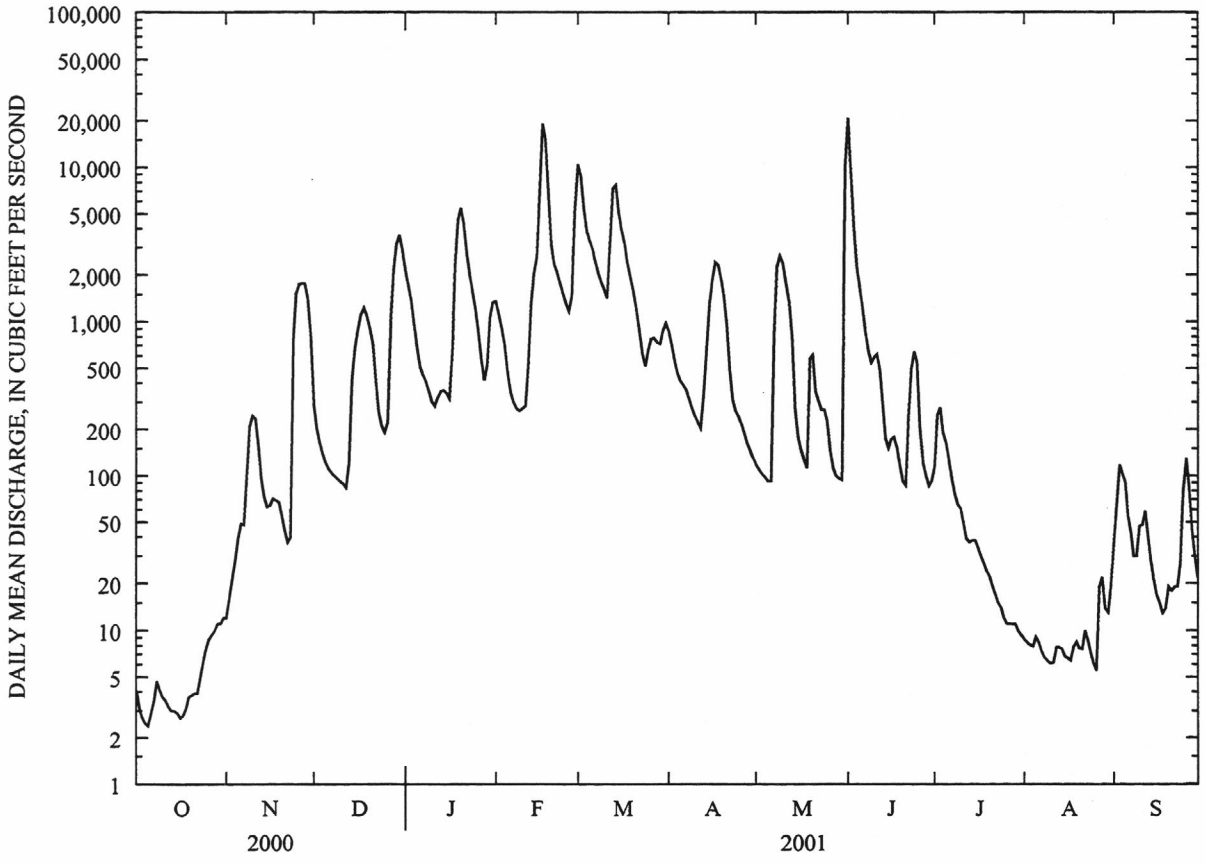
07362100 SMACKOVER CREEK NEAR SMACKOVER--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

MEAN	113	247	561	666	852	862	750	508	437	126	50.1	92.5
MAX	1784	1143	1998	1980	2832	2802	4078	1701	2864	1949	346	2174
(WY)	1985	1975	1983	1962	2001	2001	1991	1966	1974	1989	1971	1974
MIN	1.51	3.66	33.5	38.8	44.6	112	90.6	33.6	8.91	1.81	.22	1.29
(WY)	1996	1996	1982	2000	1996	1967	1971	1996	1972	1964	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1962 - 2001	
ANNUAL TOTAL	95365.01		344473.1			
ANNUAL MEAN	261		944		436	
HIGHEST ANNUAL MEAN					1074	1974
LOWEST ANNUAL MEAN					94.4	1963
HIGHEST DAILY MEAN	3650	Dec 30	21000	Jun 1	35300	Apr 6 1997
LOWEST DAILY MEAN	.00	Aug 8	2.4	Oct 5	.00	Aug 24 1978
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 8	3.0	Oct 12	.00	Aug 8 2000
MAXIMUM PEAK FLOW			23600	Jun 1	[a]52700	Jun 8 1974
MAXIMUM PEAK STAGE			21.27	Jun 1	24.97	Jun 8 1974
INSTANTANEOUS LOW FLOW			2.3	Oct 4-6	.00	at times
ANNUAL RUNOFF (AC-FT)	189200		683300		316000	
ANNUAL RUNOFF (CFSM)	.68		2.45		1.13	
ANNUAL RUNOFF (INCHES)	9.21		33.28		15.39	
10 PERCENT EXCEEDS	755		2330		1230	
50 PERCENT EXCEEDS	56		189		94	
90 PERCENT EXCEEDS	.00		7.6		5.9	

[a]From rating curve extended above 31,000 ft^3/s
[e]Estimated



07362587 ALUM FORK SALINE RIVER NEAR REFORM

LOCATION.--Lat 34°47'51", long 92°56'00", in NW1/4NE1/4 sec.29, T.2 N., R.18 W., Saline County, Hydrologic Unit 08040203, on left bank 100 ft above low-water bridge on forest road, 5.7 mi west of Reform.

DRAINAGE AREA.--27.0 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	20	37	56	93	28	3.3	98	25	.65	.00
2	.00	2.6	16	31	45	70	25	2.7	52	11	.32	.00
3	.00	.38	13	27	38	63	22	2.4	34	7.0	.15	.00
4	.00	.85	11	27	33	307	20	2.0	24	6.2	.06	.00
5	.00	2.2	9.5	51	27	134	17	1.9	19	5.0	.02	.00
6	.00	151	8.4	100	23	85	16	1.9	20	4.0	.00	.00
7	.00	34	7.3	145	21	63	14	2.3	21	3.2	.00	.00
8	.00	117	6.5	141	18	50	13	9.9	17	2.5	.00	.00
9	.00	87	5.7	89	27	39	11	5.9	12	1.9	.00	.64
10	.00	35	5.1	66	32	32	10	3.9	9.3	1.4	.00	.56
11	.00	21	5.2	e137	27	29	9.1	14	7.0	1.2	.00	.19
12	.00	62	5.5	e132	27	185	8.2	18	5.3	.97	.00	.09
13	.00	255	7.2	e115	1140	99	7.5	8.9	3.9	2.5	.00	.03
14	.00	67	6.9	e167	533	70	9.1	5.9	3.0	2.1	.00	.00
15	.00	37	7.1	e127	902	103	61	4.3	23	1.4	.00	.00
16	.00	26	33	e114	2140	75	46	3.3	16	1.0	.00	.00
17	.00	18	59	e152	331	57	31	2.5	9.9	.82	.00	.00
18	.00	13	43	e163	160	47	24	2.0	6.5	.65	.00	.00
19	.00	11	35	150	103	39	20	1.6	4.3	.54	.00	.00
20	.00	8.4	29	98	75	32	17	2.6	2.9	.42	.00	.00
21	.00	6.7	25	73	57	27	14	127	2.1	.30	.00	.00
22	.00	5.7	20	57	45	23	12	55	1.5	.18	.00	.00
23	.00	42	17	46	37	20	14	30	1.0	.09	.00	.01
24	.00	1320	15	38	66	17	16	21	.63	.03	.00	2.0
25	.00	426	14	31	128	15	11	15	.36	.01	.00	.92
26	.00	136	36	28	75	13	8.9	11	.18	.00	.00	.55
27	.00	73	149	24	94	11	7.4	8.5	.09	.00	.00	.38
28	.00	48	98	21	135	11	6.2	10	.06	.04	.00	.23
29	.00	34	74	114	---	31	5.0	68	.08	.16	.00	.14
30	.00	25	57	123	---	40	4.1	200	37	.21	.00	.09
31	.00	---	45	76	---	33	---	201	---	.32	.00	---
TOTAL	0.00	3064.83	883.4	2700	6395	1913	507.5	845.8	431.10	80.14	1.20	5.83
MEAN	.000	102	28.5	87.1	228	61.7	16.9	27.3	14.4	2.59	.039	.19
MAX	.00	1320	149	167	2140	307	61	201	98	25	.65	2.0
MIN	.00	.00	5.1	21	18	11	4.1	1.6	.06	.00	.00	.00
AC-FT	.00	6080	1750	5360	12680	3790	1010	1680	855	159	2.4	12
CFSM	.00	3.78	1.06	3.23	8.46	2.29	.63	1.01	.53	.10	.00	.01
IN.	.00	4.22	1.22	3.72	8.81	2.64	.70	1.17	.59	.11	.00	.01

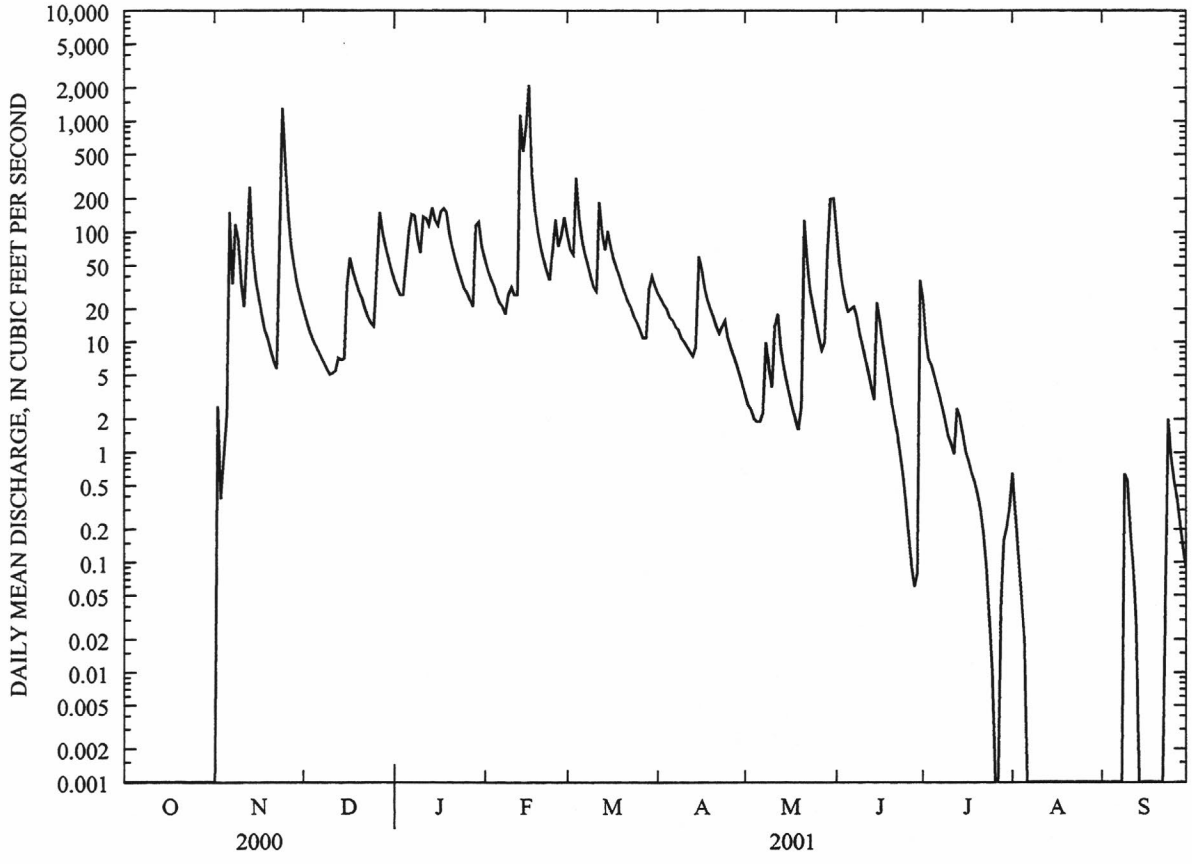
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

MEAN	23.1	60.1	99.3	77.1	81.2	93.0	80.9	48.5	24.7	4.17	1.93	2.20
MAX	77.5	222	336	135	228	265	296	157	120	24.0	18.3	10.7
(WY)	1997	1997	1991	1991	2001	1990	1991	1990	2000	1994	1994	1996
MIN	.000	2.22	1.37	31.7	8.81	37.8	8.10	1.18	1.32	.024	.000	.000
(WY)	2001	1990	1990	1996	1996	1996	1992	1992	1998	1998	1991	1995

07362587 ALUM FORK SALINE RIVER NEAR REFORM--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001	
ANNUAL TOTAL	12688.88		16827.80			
ANNUAL MEAN	34.7		46.1		49.5	
HIGHEST ANNUAL MEAN					84.8	1991
LOWEST ANNUAL MEAN					19.8	1996
HIGHEST DAILY MEAN	1320	Nov 24	2140	Feb 16	5800	Dec 21 1990
LOWEST DAILY MEAN	.00	Jul 17	.00	Oct 1	.00	Aug 21 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 17	.00	Oct 1	.00	Aug 21 1990
MAXIMUM PEAK FLOW			6030	Feb 16	13500	Dec 21 1990
MAXIMUM PEAK STAGE			12.20	Feb 16	15.30	Dec 21 1990
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	25170		33380		35870	
ANNUAL RUNOFF (CFSM)	1.28		1.71		1.83	
ANNUAL RUNOFF (INCHES)	17.48		23.18		24.92	
10 PERCENT EXCEEDS	76		101		101	
50 PERCENT EXCEEDS	7.6		9.3		8.8	
90 PERCENT EXCEEDS	.00		.00		.00	

[e]Estimated



07362588 LAKE WINONA DOWNSTREAM FROM STILLHOUSE CREEK NEAR REFORM

LOCATION.--Lat 34°48'28", long 92°54'06", in NE1/4 sec.22, T.2 N., R.18 W., Saline County, Hydrologic Unit 08040203, 0.5 mi downstream from Stillhouse Creek, and 3.4 mi upstream from dam.

PERIOD OF RECORD.--May 1989 to August 1990. December 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
OCT											
31...	1000	80513	80513	16.0	--	1.70	763	--	--	--	--
31...	1006	80513	80513	16.0	.70	--	763	8.7	97	6.2	20
31...	1008	80513	80513	16.0	4.60	--	763	8.6	96	6.2	20
31...	1012	80513	80513	16.0	10.1	--	763	8.0	88	6.1	20
31...	1013	80513	80513	16.0	15.0	--	763	6.3	67	6.0	20
31...	1014	80513	80513	16.0	15.6	--	763	5.7	61	6.0	20
31...	1020	81213	80513	16.0	--	--	763	--	--	--	--

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DEPTH TO BOTTOM OF SAMPLE INTERVAL FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT										
31...	1000	--	--	--	--	--	--	--	--	--
31...	1006	20.9	--	--	--	--	--	--	--	--
31...	1008	20.8	--	--	--	--	--	--	--	--
31...	1012	19.8	--	--	--	--	--	--	--	--
31...	1013	18.8	--	--	--	--	--	--	--	--
31...	1014	18.7	--	--	--	--	--	--	--	--
31...	1020	--	15	.00	<5	2.2	7	22	.002	.34

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT								
31...	.00	<.002	<.001	.34	<.001	.007	17	18

DATE	TIME	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
OCT						
31...	1000	E7	<1	--	--	--
31...	1020	--	--	3.6	140	27

07362589 LAKE WINONA DOWNSTREAM FROM GILLIS BRANCH NEAR REFORM

LOCATION.--Lat 34°48'16", long 92°51'16", in SE1/4 sec.24, T.2 N., R.18 W., Saline County, Hydrologic Unit 08040203, 0.1 mi downstream from Gillis Branch, and 1.3 mi upstream from dam.

PERIOD OF RECORD.--May 1989 to August 1990. December 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
OCT											
31...	0930	80513	80513	35.0	--	2.50	761	--	--	--	--
31...	0935	80513	80513	35.0	.60	--	761	9.0	100	6.2	20
31...	0936	80513	80513	35.0	4.70	--	761	8.9	99	6.3	20
31...	0937	80513	80513	35.0	10.1	--	761	8.7	97	6.3	20
31...	0938	80513	80513	35.0	15.0	--	761	8.1	87	6.3	20
31...	0939	80513	80513	35.0	20.2	--	761	5.8	60	6.1	20
31...	0940	80513	80513	35.0	25.1	--	761	4.5	47	6.0	20
31...	0941	80513	80513	35.0	30.0	--	761	.4	4	5.9	23
31...	0943	80513	80513	35.0	27.1	--	761	1.7	18	5.8	21
31...	0944	80513	80513	35.0	30.0	--	761	.2	2	5.8	23
31...	0945	80513	80513	35.0	34.2	--	761	.2	2	5.8	28
31...	0950	81213	80513	35.0	--	--	761	--	--	--	--

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DEPTH TO BOTTOM OF SAMPLE INTERVAL FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT										
31...	0930	--	--	--	--	--	--	--	--	--
31...	0935	20.6	--	--	--	--	--	--	--	--
31...	0936	20.4	--	--	--	--	--	--	--	--
31...	0937	20.3	--	--	--	--	--	--	--	--
31...	0938	18.5	--	--	--	--	--	--	--	--
31...	0939	17.7	--	--	--	--	--	--	--	--
31...	0940	17.1	--	--	--	--	--	--	--	--
31...	0941	14.8	--	--	--	--	--	--	--	--
31...	0943	16.1	--	--	--	--	--	--	--	--
31...	0944	14.8	--	--	--	--	--	--	--	--
31...	0945	13.3	--	--	--	--	--	--	--	--
31...	0950	--	27	.00	<5	.7	7	17	.002	.39

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT									
31...	.00	<.002	<.001	.39	.006	.002	.004	16	16

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)
OCT					
31...	<1	<1	2.5	80	19

Remark codes used in this report:
< -- Less than

07362590 LAKE WINONA AT REFORM

LOCATION.--Lat 34°47'51", long 92°50'43", in SE1/4SE1/4 sec.19, T.2 N., R.17 W., Saline County, Hydrologic Unit 08040203, at dam on Lake Winona at Reform.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	RESERVOIR DEPTH (FEET) (72025)	SAMPLING DEPTH (FEET) (00003)	TRANSPARENCY (SECCHI DISK) (M) (00078)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
OCT											
31...	0815	80513	80513	74.0	--	3.10	761	--	--	--	--
31...	0827	80513	80513	74.0	.90	--	761	9.0	100	6.3	20
31...	0828	80513	80513	74.0	5.00	--	761	9.0	99	6.4	20
31...	0829	80513	80513	74.0	10.0	--	761	9.0	99	6.4	20
31...	0830	80513	80513	74.0	15.0	--	761	8.4	90	6.3	20
31...	0832	80513	80513	74.0	20.0	--	761	6.6	70	6.2	20
31...	0834	80513	80513	74.0	25.1	--	761	4.9	51	6.0	20
31...	0836	80513	80513	74.0	27.1	--	761	3.1	32	5.9	20
31...	0838	80513	80513	74.0	29.0	--	761	.8	8	5.8	21
31...	0839	80513	80513	74.0	30.0	--	761	.2	2	5.8	22
31...	0840	80513	80513	74.0	33.1	--	761	.1	1	5.8	22
31...	0841	80513	80513	74.0	35.0	--	761	.2	2	5.8	22
31...	0842	80513	80513	74.0	39.9	--	761	.7	6	5.8	21
31...	0844	80513	80513	74.0	45.0	--	761	.2	2	5.9	22
31...	0845	80513	80513	74.0	49.9	--	761	.4	3	5.9	23
31...	0847	80513	80513	74.0	55.1	--	761	.4	3	5.9	23
31...	0849	80513	80513	74.0	60.0	--	761	.1	0	5.8	25
31...	0850	80513	80513	74.0	65.0	--	761	.1	0	5.8	25
31...	0851	80513	80513	74.0	69.8	--	761	.1	0	5.8	28
31...	0853	80513	80513	74.0	74.4	--	761	.1	0	6.0	48
31...	0900	81213	80513	74.0	--	--	761	--	--	--	--
31...	0910	81213	80513	74.0	--	--	761	--	--	--	--

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTERVAL (FT) (72015)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT										
31...	0827	20.4	--	--	--	--	--	--	--	--
31...	0828	20.4	--	--	--	--	--	--	--	--
31...	0829	19.9	--	--	--	--	--	--	--	--
31...	0830	18.8	--	--	--	--	--	--	--	--
31...	0832	18.0	--	--	--	--	--	--	--	--
31...	0834	17.2	--	--	--	--	--	--	--	--
31...	0836	16.5	--	--	--	--	--	--	--	--
31...	0838	15.5	--	--	--	--	--	--	--	--
31...	0839	14.8	--	--	--	--	--	--	--	--
31...	0840	14.1	--	--	--	--	--	--	--	--
31...	0841	13.3	--	--	--	--	--	--	--	--
31...	0842	12.2	--	--	--	--	--	--	--	--
31...	0844	11.5	--	--	--	--	--	--	--	--
31...	0845	10.9	--	--	--	--	--	--	--	--
31...	0847	10.4	--	--	--	--	--	--	--	--
31...	0849	10.2	--	--	--	--	--	--	--	--
31...	0850	9.9	--	--	--	--	--	--	--	--
31...	0851	9.8	--	--	--	--	--	--	--	--
31...	0853	9.7	--	--	--	--	--	--	--	--
31...	0900	--	24	.00	<5	.5	8	1.50	1.00	.40
31...	0910	--	72	27	5	2.4	8	1.60	1.00	.40

DATE	TIME	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L CACO3 (00410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT									
31...	0900	.1	.9	19	7	1.3	<.1	3.0	2.3
31...	0910	.1	.9	19	8	1.2	<.1	3.9	2.3

DATE	TIME	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT									
31...	0900	.03	21	15	<.002	.49	--	<.002	<.001
31...	0910	.03	20	17	.008	.39	.01	.067	<.001

07362590 LAKE WINONA AT REFORM--CONTINUED

DATE	TIME	NITROGEN ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/100 ML) (31673)
OCT									
31...	0900	--	--	<.001	.004	14	14	<1	<1
31...	0910	.38	.46	<.001	.004	12	12	--	--

DATE	TIME	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	IRON, DISSOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
OCT							
31...	0900	2.0	10	70	<1.0	16	<.10
31...	0910	--	140	440	380	400	<.10

Remark codes used in this report:
< -- Less than

07363000 SALINE RIVER AT BENTON

LOCATION.--Lat 34°34'05", long 92°36'40", in SE1/4NE1/4 sec.9, T.2 S., R.15 W., Saline County, Hydrologic Unit 08040203, on left bank 0.8 mi west of Benton, 3.0 mi downstream from confluence of North Fork and Alum Fork, and at mile 198.1.

DRAINAGE AREA.--550 mi^2.

PERIOD OF RECORD.--October 1950 to September 1979, October 2000 to current year. Annual maximum 1980-2000. Gage-height records collected at site 0.4 mi 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 above sea level. July 6, 1938, to July 29, 1948, and Feb. 14 to Mar. 24, 1950, nonrecording gage; July 30, 1948, to Feb. 13, 1950, and Mar. 25, 1950, to July 13, 1950, water-stage recorder, all at site 0.4 mi downstream at datum 3.00 ft lower.

REMARKS.--Records good. Little Rock diverts about 35 ft^3/s daily from Lake Winona on Alum Fork for municipal use and discharges sewage effluent into Arkansas River. Benton diverts about 7.5 ft^3/s daily for municipal use just upstream from station. At times low flow is augmented by releases from Lake Norrell.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of about 32.0 ft, at former site and datum (from information by State Highway and Transportation Department), or about 30.5 ft, at paresent site and datum, discharge, about 110,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	26	483	743	1190	2260	479	123	1680	784	44	15
2	49	65	452	595	866	1650	422	116	568	289	39	17
3	47	87	385	524	683	1310	390	106	366	190	39	17
4	45	e122	330	477	584	4160	354	99	325	137	33	13
5	36	e847	317	461	528	3120	331	93	267	106	31	5.2
6	36	e1420	309	465	505	1990	303	84	300	91	26	16
7	35	e789	273	500	485	1430	280	91	265	67	38	20
8	30	e1160	253	652	458	1090	258	146	268	64	29	22
9	20	e1290	230	707	438	822	240	202	253	58	29	26
10	14	e731	216	556	445	651	218	149	213	46	49	27
11	16	e465	208	604	444	574	202	140	185	38	550	29
12	13	e620	202	e1290	430	4370	192	129	165	39	190	50
13	13	e3040	206	e1220	2490	2990	192	161	149	170	106	57
14	17	e1490	217	e967	9400	1810	178	149	116	252	67	46
15	19	754	253	e847	7660	1870	345	113	103	167	50	38
16	16	655	491	e1350	18800	1750	476	102	116	113	40	38
17	16	642	586	e3470	21200	1250	351	81	162	89	35	33
18	17	566	588	e4860	4630	929	270	68	130	68	32	26
19	16	511	545	e2870	2670	705	227	73	97	56	30	28
20	16	469	461	1910	1890	591	216	69	83	50	29	28
21	20	433	418	1320	1410	510	205	160	65	42	34	23
22	18	419	411	990	1070	459	172	316	59	37	30	5.7
23	14	428	367	776	827	415	168	227	52	34	27	14
24	14	e5050	314	647	834	385	235	203	47	31	23	16
25	16	e9940	279	583	1340	349	216	176	40	29	22	16
26	22	e3120	305	556	1080	320	182	123	37	23	17	5.0
27	21	1410	e1490	497	1330	292	158	111	40	25	14	13
28	21	913	e2300	469	3240	270	165	116	38	62	13	25
29	22	660	1990	633	---	316	148	182	40	44	10	25
30	33	595	1530	2790	---	629	137	322	55	58	8.9	24
31	32	---	1080	1720	---	569	---	1280	---	50	16	---
TOTAL	758	38717	17489	36049	86927	39836	7710	5510	6284	3309	1700.9	717.9
MEAN	24.5	1291	564	1163	3105	1285	257	178	209	107	54.9	23.9
MAX	54	9940	2300	4860	21200	4370	479	1280	1680	784	550	57
MIN	13	26	202	461	430	270	137	68	37	23	8.9	5.0
AC-FT	1500	76800	34690	71500	172400	79010	15290	10930	12460	6560	3370	1420
CFSM	.04	2.35	1.03	2.11	5.64	2.34	.47	.32	.38	.19	.10	.04
IN.	.05	2.62	1.18	2.44	5.88	2.69	.52	.37	.43	.22	.12	.05

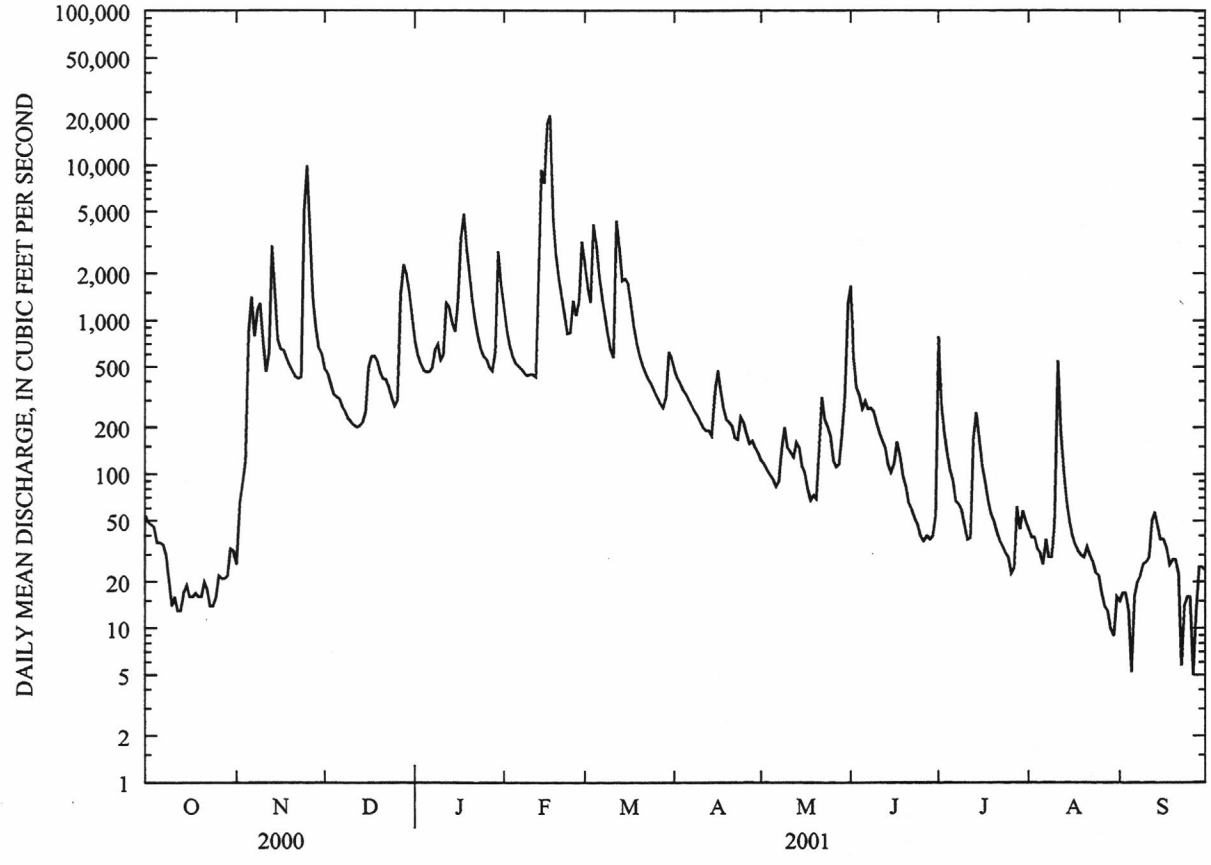
07363000 SALINE RIVER AT BENTON--CONTINUED

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-79, 2001, BY WATER YEAR (WY)

MEAN	187	686	952	1077	1357	1476	1418	1250	452	155	135	194
MAX	1415	3330	2529	3512	4935	4154	4631	5376	3930	888	951	1103
(WY)	1971	1974	1960	1969	1956	1973	1973	1968	1974	1951	1966	1973
MIN	16.0	49.1	72.3	81.3	242	215	197	114	33.4	3.22	3.59	1.28
(WY)	1957	1954	1966	1964	1963	1954	1972	1959	1954	1954	1954	1954

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1951-79, 2001	
ANNUAL TOTAL	245007.8			
ANNUAL MEAN	671		775	
HIGHEST ANNUAL MEAN			1646	1973
LOWEST ANNUAL MEAN			282	1963
HIGHEST DAILY MEAN	21200	Feb 17	66000	Jan 30 1969
LOWEST DAILY MEAN	5.0	Sep 26	.00	Jul 23 1954
ANNUAL SEVEN-DAY MINIMUM	13	Aug 30	.04	Jul 23 1954
MAXIMUM PEAK FLOW	32100	Feb 16	100000	Jan 30 1969
MAXIMUM PEAK STAGE	21.81	Feb 16	29.68	Jan 30 1969
INSTANTANEOUS LOW FLOW	1.4	Sep 26	.00	at times
ANNUAL RUNOFF (AC-FT)	486000		561400	
ANNUAL RUNOFF (CFSM)	1.22		1.41	
ANNUAL RUNOFF (INCHES)	16.57		19.14	
10 PERCENT EXCEEDS	1420		1560	
50 PERCENT EXCEEDS	205		210	
90 PERCENT EXCEEDS	21		30	

[e]Estimated



07363400 HURRICANE CREEK BELOW SHERIDAN

LOCATION.--Lat 34°13'42", long 92°22'21", in SW1/4NW1/4 sec.1, T.6 S., R.13 W., Grant County, Hydrologic Unit 08040203, on downstream side of bridge on State Highway 35, 6.0 mi south of Sheridan.

DRAINAGE AREA.--261 mi².

PERIOD OF RECORD.--October 1995 to current year. Gage-height records 1938-40 and 1947-64 are published in reports of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. January 1, 1938 to Dec. 31, 1940 and Jan. 1, 1947 to Nov. 29, 1948, non-recording gage at present site at datum 180.10 ft above sea level. Nov. 30, 1948 to Dec. 31, 1964 water-stage recorder at present site and at datum then in use.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e388	e530	827	2600	316	e27	e639	e20	e5.1	e1.3
2	.00	.00	e241	e380	782	2660	300	e22	e725	e32	e4.3	e7.5
3	.00	.00	e102	e260	e700	2240	268	e15	e562	e43	e4.7	e3.9
4	.00	.00	e56	e180	e541	1960	219	e7.9	e315	e41	e4.0	e.42
5	.00	.00	e40	e125	e422	1740	177	e2.8	183	e27	e3.3	e.00
6	.00	.00	e28	e100	e336	1490	157	e1.6	152	e19	e.50	e.00
7	.00	.00	e22	e100	e264	1460	132	e5.9	271	e13	e1.6	e.00
8	.00	.00	e15	e125	e199	1340	113	e19	310	e8.3	e81	e.00
9	.00	1.9	e14	e175	e147	1020	96	24	293	e4.6	e.34	e.00
10	.00	11	e11	e175	e126	821	77	17	179	e2.8	e2.3	e.00
11	.00	78	e10	e145	e126	880	64	17	e106	e1.2	e6.8	e.00
12	.00	39	e12	136	e152	1250	57	13	e75	e.28	e15	e.00
13	.00	19	e36	177	e241	1840	131	10	e60	e2.8	e30	e.00
14	.00	12	e102	258	e502	2410	328	8.0	e45	e18	e25	e.00
15	.00	38	e362	256	1200	2710	929	6.6	e39	e31	e17	e.00
16	.00	48	e533	290	3500	2340	1140	4.6	e40	e33	e12	e.00
17	.00	19	728	319	7740	1850	1180	3.4	e34	e28	e7.8	e.00
18	.00	13	818	686	7330	1560	1260	2.6	e35	e19	e4.3	e.00
19	.00	13	929	1030	4530	1290	854	1.9	e42	e14	e5.8	e.00
20	.00	12	1030	1200	2850	899	484	1.4	e28	e10	e12	e.00
21	.00	7.8	781	1320	2000	622	260	1.7	e21	e8.1	e4.1	e.00
22	.00	4.0	e380	1390	1540	469	151	5.3	e14	e6.5	e.50	e.00
23	.00	2.9	e126	1170	1180	354	135	8.5	e9.2	e5.0	e.00	e.00
24	.00	39	e62	e740	833	272	158	23	e5.0	e3.9	e.00	e.00
25	.00	349	e68	e533	879	208	e171	25	e2.5	e2.9	e.00	e.00
26	.00	522	e95	e362	888	138	e137	13	e.88	e2.0	e.00	e.00
27	.00	608	e220	e241	1080	103	e99	9.2	e.01	e1.7	e.00	e.00
28	.00	670	e400	e416	2100	104	e66	16	e.00	e3.5	e.00	e.00
29	.00	e629	e580	e629	---	189	e44	52	e1.4	e4.9	e.00	e.00
30	.00	e533	e610	e781	---	276	e33	65	e7.3	e3.1	e.00	e.00
31	.00	---	e590	772	---	318	---	e322	---	e7.6	e.00	---
TOTAL	0.00	3668.60	9389	15001	43015	37413	9536	751.4	4194.29	417.18	247.44	13.12
MEAN	.000	122	303	484	1536	1207	318	24.2	140	13.5	7.98	.44
MAX	.00	670	1030	1390	7740	2710	1260	322	725	43	81	7.5
MIN	.00	.00	10	100	126	103	33	1.4	.00	.28	.00	.00
AC-FT	.00	7280	18620	29750	85320	74210	18910	1490	8320	827	491	26

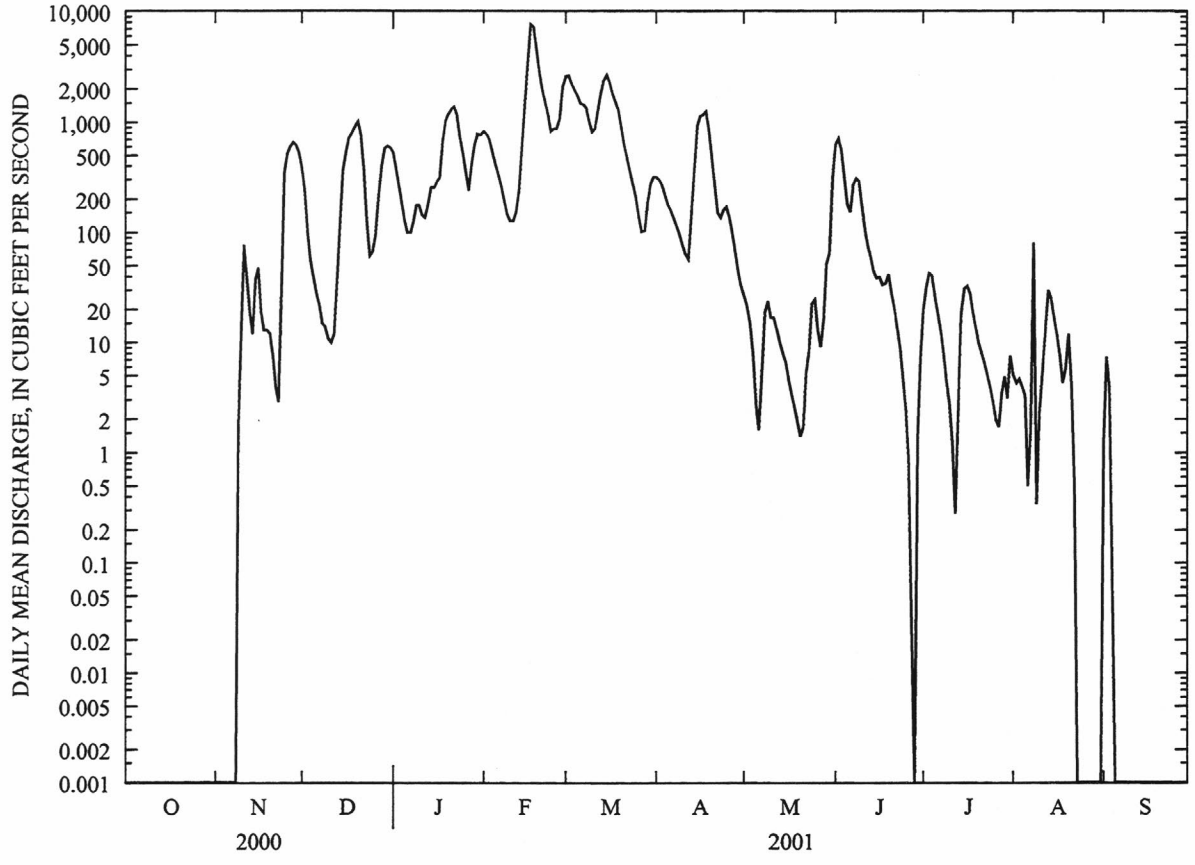
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	23.8	90.3	192	361	566	602	549	109	168	38.9	27.3	15.7
MAX	64.9	284	375	723	1536	1207	2035	259	538	95.7	131	55.9
(WY)	1997	1997	1997	1998	2001	2001	1997	1997	1997	1997	1996	1998
MIN	.000	1.10	12.5	13.4	32.8	102	88.8	20.7	5.63	2.19	.000	.000
(WY)	1996	2000	1996	2000	2000	1996	2000	1998	1998	1998	2000	1999

07363400 HURRICANE CREEK BELOW SHERIDAN--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	30121.16		123646.03			
ANNUAL MEAN	82.3		339		226	
HIGHEST ANNUAL MEAN					488	1997
LOWEST ANNUAL MEAN					49.3	2000
HIGHEST DAILY MEAN	1030	Dec 20	7740	Feb 17	20100	Apr 6 1997
LOWEST DAILY MEAN	.00	Jul 28	.00	Oct 1	.00	Oct 1 1995
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 1	.00	Oct 1	.00	Oct 1 1995
MAXIMUM PEAK FLOW			[a]9150	Feb 17	[a]26400	Apr 6 1997
MAXIMUM PEAK STAGE			14.18	Feb 17	16.34	Apr 6 1997
INSTANTANEOUS LOW FLOW			.00	at times	.00	at times
ANNUAL RUNOFF (AC-FT)	59750		245300		163900	
10 PERCENT EXCEEDS	240		1020		599	
50 PERCENT EXCEEDS	13		31		37	
90 PERCENT EXCEEDS	.00		.00		.00	

[a]From rating curve extended above 7,500 ft^3/s on basis of contracted-opening measurement of peak flow
[e]Estimated



07363500 SALINE RIVER NEAR RYE

LOCATION.--Lat 33°42'03", long 92°01'33", in SW1/4NW1/4 sec.3, T.12 S., R.9 W., Bradley County, Hydrologic Unit 08040204, near left bank on downstream side of bridge on State Highway 15, 3.6 mi southwest of Rye, 5.8 mi upstream from Hudgin Creek, and at mile 71.0.

DRAINAGE AREA.--2,102 mi².

PERIOD OF RECORD.--August 1937 to current year.

REVISED RECORDS.--WRD Ark. 1979: Drainage area.

GAGE.--No estimated daily discharges. Water-stage recorder. Datum of gage is 97.06 ft above sea level. Prior to May 30, 1939, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of 30.5 ft, discharge, about 73,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

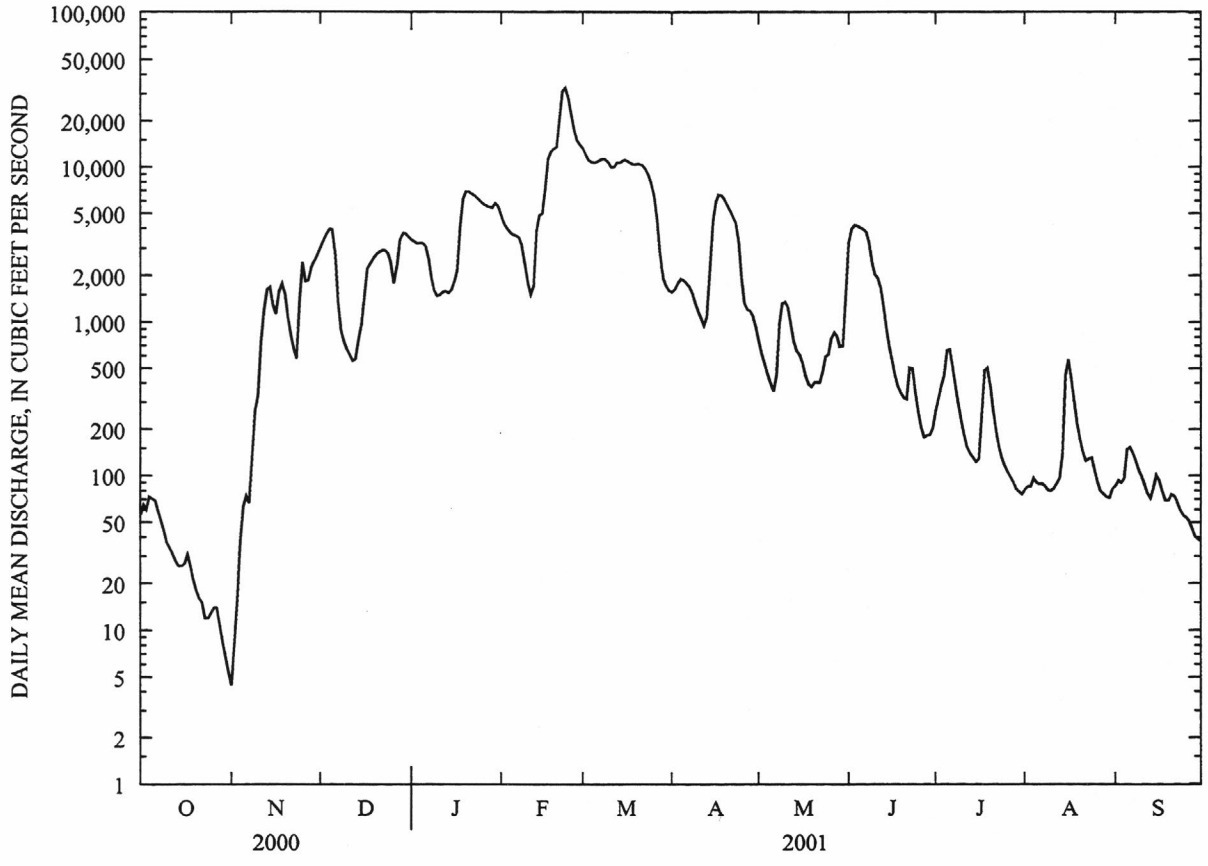
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	4.4	3030	3420	4850	13200	1570	758	3290	263	81	86
2	65	8.6	3350	3310	4290	12000	1640	624	3980	317	85	94
3	60	16	3680	3220	4000	11100	1800	529	4200	386	85	91
4	73	38	3960	3250	3800	10800	1900	456	4160	450	97	97
5	71	63	3920	3240	3660	10700	1880	400	4060	654	91	148
6	69	74	2810	3080	3610	10800	1790	355	3960	661	88	153
7	59	66	1360	2570	3530	11100	1700	459	3810	514	89	141
8	51	128	894	1940	3170	11300	1550	973	3280	385	86	125
9	44	262	749	1600	2430	11300	1340	1330	2430	289	81	110
10	37	331	667	1480	1810	10800	1180	1360	2030	225	80	99
11	34	749	610	1500	1510	10000	1060	1250	1920	183	83	87
12	31	1210	560	1570	1720	10000	952	943	1680	153	90	77
13	28	1620	573	1590	3850	10700	1090	739	1270	141	98	71
14	26	1690	761	1550	4850	10700	2300	646	929	132	142	82
15	26	1290	966	1620	5010	11000	4400	612	700	123	456	101
16	27	1130	1440	1830	7220	11200	5920	542	556	129	572	93
17	31	1570	2220	2170	11300	10900	6580	448	450	259	434	79
18	26	1780	2410	4100	12600	10600	6540	397	377	485	302	69
19	21	1520	2590	6180	13200	10400	6150	379	345	505	219	69
20	18	1080	2740	6900	13600	10500	5660	405	322	383	172	76
21	16	833	2850	6900	20700	10500	5170	406	315	264	143	74
22	15	671	2910	6730	31200	10300	4710	404	504	194	125	67
23	12	575	2910	6520	32900	9690	4290	474	500	154	129	60
24	12	1350	2790	6270	28400	8880	3280	598	354	131	131	56
25	13	2430	2390	6010	22700	7810	1910	621	267	116	109	54
26	14	1840	1790	5750	18000	6540	1320	793	211	106	91	51
27	14	1860	2320	5620	15000	4660	1210	863	178	98	80	46
28	11	2240	3440	5510	14100	2720	1190	813	183	91	77	41
29	8.5	2490	3750	5450	---	1940	1100	696	184	83	73	39
30	6.8	2740	3720	5850	---	1720	935	701	205	79	72	38
31	5.4	---	3560	5560	---	1610	---	1550	---	76	82	---
TOTAL	980.7	31659.0	71720	122290	293010	285470	82117	21524	46650	8029	4543	2474
MEAN	31.6	1055	2314	3945	10460	9209	2737	694	1555	259	147	82.5
MAX	73	2740	3960	6900	32900	13200	6580	1550	4200	661	572	153
MIN	5.4	4.4	560	1480	1510	1610	935	355	178	76	72	38
AC-FT	1950	62800	142300	242600	581200	566200	162900	42690	92530	15930	9010	4910
CFSM	.02	.50	1.10	1.88	4.98	4.38	1.30	.33	.74	.12	.07	.04
IN.	.02	.56	1.27	2.16	5.19	5.05	1.45	.38	.83	.14	.08	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	487	1199	2867	3814	5114	5374	5247	4556	1494	581	283	338
MAX	10570	9690	13280	14830	16710	13920	16340	21470	11950	8191	1573	4511
(WY)	1985	1958	1974	1946	1950	1945	1973	1958	1974	1989	1971	1950
MIN	15.4	50.7	111	143	307	706	640	352	80.5	32.5	10.6	4.95
(WY)	1939	1940	1940	1956	2000	1940	1972	1992	1972	1954	1954	1954

07363500 SALINE RIVER NEAR RYE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	336913.0		970466.7			
ANNUAL MEAN	921		2659		2600	
HIGHEST ANNUAL MEAN					5436	1973
LOWEST ANNUAL MEAN					704	1972
HIGHEST DAILY MEAN	4510	May 10	32900	Feb 23	72500	May 18 1968
LOWEST DAILY MEAN	4.4	Nov 1	4.4	Nov 1	3.8	Sep 16 1954
ANNUAL SEVEN-DAY MINIMUM	8.4	Oct 27	8.4	Oct 27	4.0	Sep 15 1954
MAXIMUM PEAK FLOW			33800	Feb 22-23	74500	May 18 1968
MAXIMUM PEAK STAGE			26.47	Feb 22-23	31.40	May 18 1968
INSTANTANEOUS LOW FLOW			3.6	Nov 1	3.5	Sep 27 1954
ANNUAL RUNOFF (AC-FT)	668300		1925000		1883000	
ANNUAL RUNOFF (CFSM)	.44		1.26		1.24	
ANNUAL RUNOFF (INCHES)	5.96		17.17		16.80	
10 PERCENT EXCEEDS	2800		8240		7430	
50 PERCENT EXCEEDS	398		833		676	
90 PERCENT EXCEEDS	21		58		64	



07364133 BAYOU BARTHOLOMEW AT GARRETT BRIDGE

LOCATION.--Lat 33°51'59", long 91°39'22", in SE1/4SW1/4 sec.6, T.10 S., R.5 W., Lincoln County, Hydrologic Unit 08040205, on downstream side of bridge on State Highway 54, 1.9 mi upstream from Flat Creek at Garrett Bridge.

DRAINAGE AREA.--380 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage 144.13 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	25	1140	e677	1150	2390	343	478	225	130	138	150
2	4.7	27	1000	e620	1090	2330	262	378	361	162	165	271
3	4.5	29	874	e561	1000	2210	203	282	436	178	162	322
4	4.5	35	765	e518	913	2150	162	207	414	157	150	292
5	4.4	44	672	e478	825	2130	132	154	348	118	140	221
6	16	50	579	441	752	2040	114	122	292	92	131	155
7	94	51	490	415	693	1890	104	110	278	84	117	107
8	107	102	411	398	652	1730	96	187	328	85	103	79
9	101	227	333	380	620	1580	92	414	409	100	98	62
10	95	272	260	356	579	1440	94	562	451	97	115	51
11	90	286	202	332	527	1320	103	583	443	83	146	45
12	85	244	159	303	528	1380	115	526	407	71	199	40
13	80	191	159	275	720	1670	140	455	355	79	256	36
14	75	146	236	253	861	1820	228	394	291	109	298	33
15	70	112	309	234	948	1900	544	346	237	210	320	30
16	66	92	480	221	1390	1960	835	303	200	272	321	28
17	63	83	614	242	2190	1980	1110	258	180	258	295	28
18	60	82	720	471	2520	1910	1290	214	164	203	252	31
19	57	93	799	914	2730	1780	1320	177	140	143	206	30
20	52	89	808	1310	2890	1650	1290	153	111	107	177	27
21	48	73	769	1540	2980	1530	1250	140	91	92	158	23
22	44	58	715	1610	2970	1430	1200	130	82	91	148	21
23	41	51	668	1560	2860	1320	1150	116	100	97	148	19
24	38	619	603	1470	2720	1220	1100	123	147	93	147	18
25	36	1100	556	1370	2580	1110	1040	117	161	79	137	17
26	34	1360	537	1280	2410	994	968	113	140	76	125	16
27	33	1520	553	1210	2260	873	883	105	108	79	108	14
28	31	1550	623	1130	2330	755	785	85	69	85	89	13
29	29	1460	694	1090	---	648	687	64	43	92	78	12
30	27	1300	729	1110	---	544	584	71	83	98	84	11
31	26	---	e724	1150	---	438	---	179	---	105	95	---
TOTAL	1521.3	11371	18181	23919	44688	48122	18224	7546	7094	3725	5106	2202
MEAN	49.1	379	586	772	1596	1552	607	243	236	120	165	73.4
MAX	107	1550	1140	1610	2980	2390	1320	583	451	272	321	322
MIN	4.4	25	159	221	527	438	92	64	43	71	78	11
AC-FT	3020	22550	36060	47440	88640	95450	36150	14970	14070	7390	10130	4370
CFSM	.13	1.00	1.54	2.03	4.20	4.09	1.60	.64	.62	.32	.43	.19
IN.	.15	1.11	1.78	2.34	4.37	4.71	1.78	.74	.69	.36	.50	.22

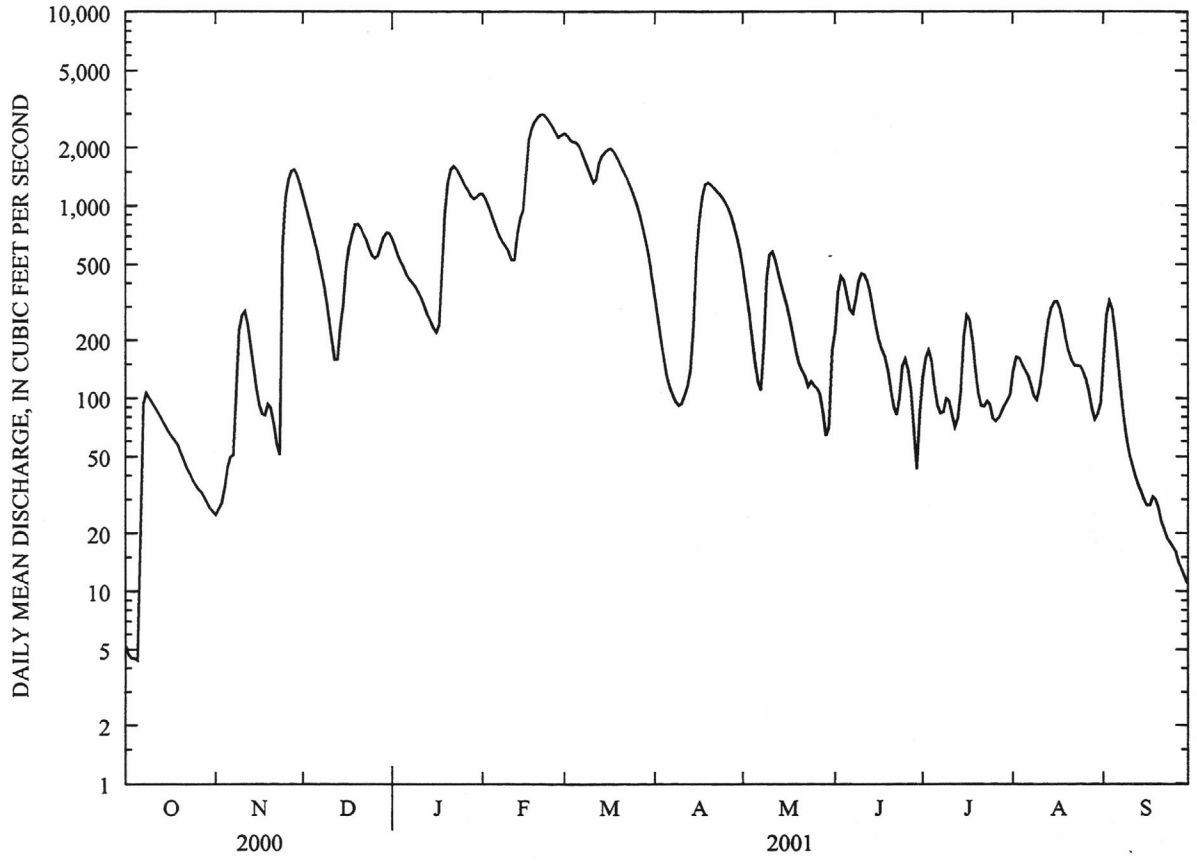
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	100	296	584	998	1071	1150	894	533	269	329	158	58.0
MAX	625	959	1618	2748	2861	3057	2229	1791	726	2488	419	123
(WY)	1991	1988	1992	1988	1990	1997	1991	1991	1989	1989	1989	1989
MIN	1.53	3.03	146	27.5	83.0	321	162	55.3	8.58	31.5	34.3	10.4
(WY)	1996	1996	2000	2000	2000	1988	1998	1988	1988	1990	1995	1995

07364133 BAYOU BARTHOLOMEW AT GARRETT BRIDGE--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	90293.3		191699.3			
ANNUAL MEAN	247		525		534	
HIGHEST ANNUAL MEAN					966	1989
LOWEST ANNUAL MEAN					174	1996
HIGHEST DAILY MEAN	1550	Nov 28	2980	Feb 21	5210	Mar 7 1997
LOWEST DAILY MEAN	4.4	Oct 5	4.4	Oct 5	.25	Oct 21 1995
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 29	14	Sep 24	.27	Oct 20 1995
MAXIMUM PEAK FLOW			2990	Feb 21,22	5220	Mar 7 1997
MAXIMUM PEAK STAGE			18.18	Feb 21,22	22.22	Feb 10 1990
INSTANTANEOUS LOW FLOW			4.4	Oct 4,5	.24	Oct 21 1995
ANNUAL RUNOFF (AC-FT)	179100		380200		387000	
ANNUAL RUNOFF (CFSM)	.65		1.38		1.41	
ANNUAL RUNOFF (INCHES)	8.84		18.77		19.10	
10 PERCENT EXCEEDS	728		1460		1540	
50 PERCENT EXCEEDS	89		228		189	
90 PERCENT EXCEEDS	22		39		17	

[e] Estimated



07364133 BAYOU BARTHOLOMEW AT GARRETT BRIDGE--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
OCT 17...	0845	81213	80513	60	764	10.0	103	6.3	130	16.7
JAN 16...	1130	81213	80513	220	782	8.7	67	7.9	112	5.6
FEB 27...	1215	81213	80513	2380	779	7.5	67	7.1	53	11.1
MAY 08...	1115	81213	80513	139	770	4.4	50	7.4	160	22.3
JUN 19...	0900	81213	80513	146	766	5.2	65	7.3	240	26.5
AUG 28...	1225	81213	80513	89	775	4.3	53	7.8	273	26.4

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 17...	35	8.40	3.50	2.70	.7	10.0	36	7.6	11.0
JAN 16...	34	8.60	3.00	3.20	.5	6.6	27	6.5	9.8
FEB 27...	16	4.00	1.40	2.50	.3	2.4	22	2.1	4.6
MAY 08...	51	13.0	4.40	3.40	.5	8.6	25	12.0	7.6
JUN 19...	78	20.0	6.90	3.00	.7	15.0	28	21.0	7.1
AUG 28...	94	24.0	8.30	3.90	.7	16.0	26	21.0	5.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT 17...	87	.010	1.0	.01	.080	<.010	.99	1.1	.123
JAN 16...	81	<.010	.66	--	.220	<.010	--	.88	.092
FEB 27...	46	<.010	.87	--	.090	<.010	--	.96	.215
MAY 08...	107	.020	1.1	.03	.340	<.010	1.1	1.4	.215
JUN 19...	148	.038	1.1	.05	.760	<.010	1.1	1.9	.245
AUG 28...	165	.040	.70	.05	.130	<.010	.66	.83	.276

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT 17...	.040	.040	.150	880	730	820	94	82	13
JAN 16...	.070	.030	.140	100	93	140	97	55	33
FEB 27...	.060	.070	.140	92	97	200	93	54	347
MAY 08...	.070	.070	.310	460	430	1600	96	80	30
JUN 19...	.080	.080	.230	E40	80	140	96	58	23
AUG 28...	.070	.090	.160	160	280	440	100	83	20

Remark codes used in this report:
< -- Less than
E -- Estimated value

07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE

LOCATION.--Lat 33°37'40", long 91°26'45", in NE1/4SW1/4 sec.30, T.12 S., R.3 W., Desha County, Hydrologic Unit 08050001, near center of stream on downstream side of bridge on State Highway 4, 2.7 mi west of McGehee, 17.5 mi downstream from Ables Creek, at mile 200.5.

DRAINAGE AREA.--576 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to September 1942, October 1945 to current year. Gage-height records collected and occasional discharge measurements made by U.S. Army Corps of Engineers at this site since August 1938. Daily stages 1940 to date and results of discharge measurements 1938, 1947 to date are published in reports of U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1979: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 120.48 ft above sea level. Prior to Sept. 7, 1949, nonrecording gage at same site. October 1938 to June 6, 1972, at datum 1.00 ft higher. Since Jan. 20, 1971, auxiliary water-stage recorder 14 mi upstream.

REMARKS.--No estimated daily discharges. Water-discharge records good except discharges below 50 ft³/s, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1930, that of May 11, 1958. Flood in 1932 reached a stage of 23.4 ft, present datum, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	42	1600	1090	1660	3920	1040	899	409	98	79	220
2	18	43	1580	1050	1610	3860	933	833	479	105	88	429
3	19	44	1520	989	1550	3820	836	759	466	103	98	587
4	20	45	1440	917	1480	3850	743	682	431	93	100	525
5	20	46	1340	846	1390	3750	658	600	402	85	95	453
6	20	46	1230	789	1300	3610	571	517	400	83	96	409
7	20	46	1130	736	1220	3470	487	433	400	85	106	381
8	19	55	1020	681	1130	3290	413	384	398	89	114	346
9	18	77	919	628	1040	3090	350	313	384	90	117	300
10	18	123	821	576	966	2860	284	253	361	89	124	254
11	17	164	728	536	891	2630	231	220	337	77	138	208
12	17	186	636	503	927	2610	204	223	320	66	135	164
13	18	195	568	476	1200	2670	252	264	316	94	134	127
14	30	199	551	451	1380	2620	359	323	319	154	133	97
15	45	203	535	425	1520	2690	627	370	322	163	134	74
16	58	208	651	398	2010	2700	822	396	319	148	139	61
17	66	209	716	428	2550	2690	853	395	307	125	152	54
18	69	202	731	705	2940	2660	847	377	286	106	170	50
19	69	188	729	1090	3280	2620	862	349	255	102	191	44
20	67	166	728	1330	3540	2550	928	314	222	113	212	38
21	66	141	738	1490	3710	2460	1000	277	192	134	225	33
22	64	118	751	1650	3810	2340	1070	241	176	143	224	27
23	62	103	762	1790	3840	2210	1130	209	171	140	211	23
24	59	404	765	1890	3820	2070	1170	184	165	130	191	21
25	57	863	757	1920	3850	1920	1160	161	152	118	172	19
26	55	1110	749	1900	3770	1780	1130	142	133	98	158	17
27	53	1260	927	1850	3760	1640	1100	129	111	73	149	17
28	51	1390	1100	1770	3940	1510	1060	122	95	60	143	16
29	48	1500	1160	1710	---	1370	1010	116	89	58	140	16
30	46	1580	1160	1720	---	1250	958	113	92	62	143	15
31	44	---	1130	1690	---	1140	---	244	---	66	163	---
TOTAL	1249	10956	29172	34024	64084	81650	23088	10842	8509	3150	4474	5025
MEAN	40.3	365	941	1098	2289	2634	770	350	284	102	144	168
MAX	69	1580	1600	1920	3940	3920	1170	899	479	163	225	587
MIN	16	42	535	398	891	1140	204	113	89	58	79	15
AC-FT	2480	21730	57860	67490	127100	162000	45800	21510	16880	6250	8870	9970
CFSM	.07	.63	1.63	1.91	3.97	4.57	1.34	.61	.49	.18	.25	.29
IN.	.08	.71	1.88	2.20	4.14	5.27	1.49	.70	.55	.20	.29	.32

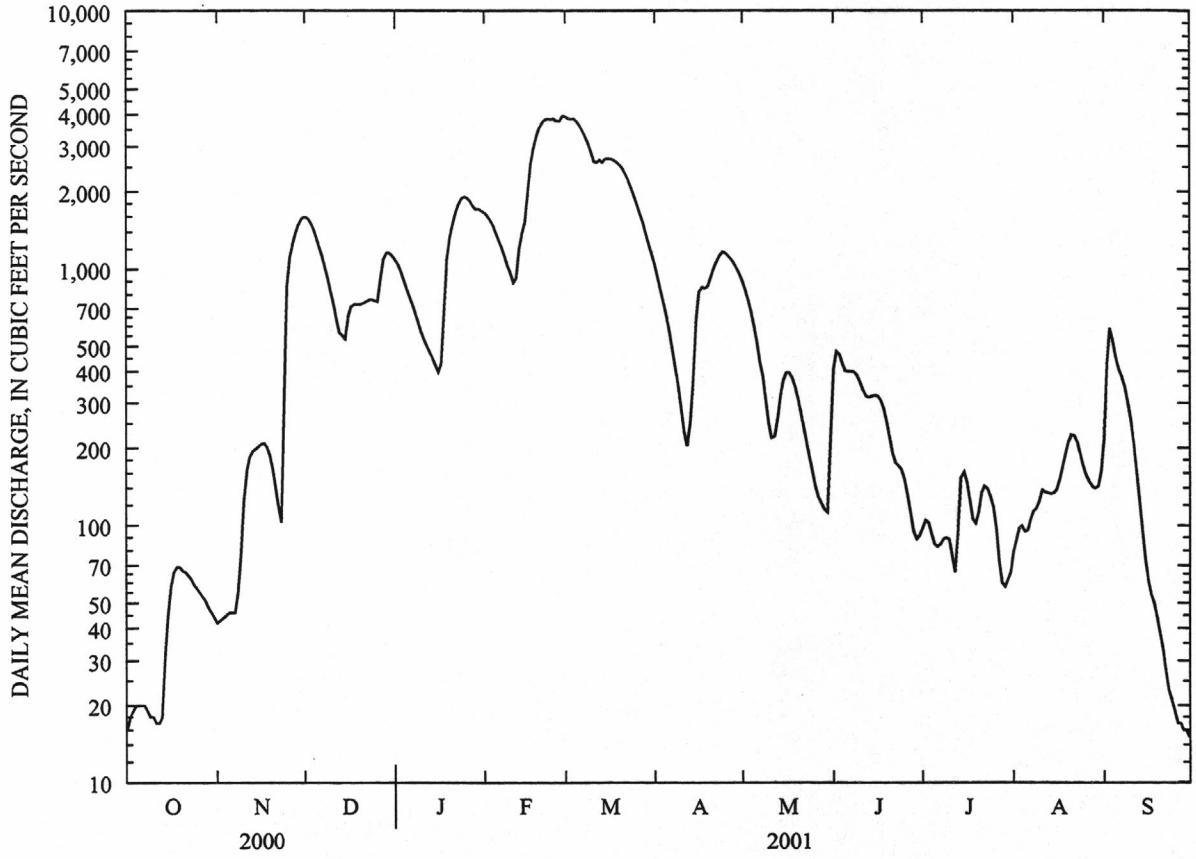
07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-42, 1946-01, BY WATER YEAR (WY)

MEAN	165	341	720	1026	1417	1405	1207	1046	455	213	151	150
MAX	1491	2240	2835	3900	5085	4006	3127	5972	2575	3688	1032	1792
(WY)	1985	1958	1973	1946	1990	1997	1991	1958	1974	1989	1989	1974
MIN	8.45	6.88	31.9	39.3	98.3	189	82.8	73.0	22.1	6.03	.44	14.4
(WY)	1996	1996	1982	1966	2000	1954	1966	1965	1972	1954	1956	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939-42, 1946-01	
ANNUAL TOTAL	110615		276223			
ANNUAL MEAN	302		757		687	
HIGHEST ANNUAL MEAN					1488	1973
LOWEST ANNUAL MEAN					149	1972
HIGHEST DAILY MEAN	1960	Apr 6	3940	Feb 28	6870	May 11 1958
LOWEST DAILY MEAN	12	Sep 15	15	Sep 30	.20	Aug 15 1956
ANNUAL SEVEN-DAY MINIMUM	13	Sep 12	17	Sep 24	.20	Aug 15 1956
MAXIMUM PEAK FLOW			3950	Feb 28	6870	May 11 1958
MAXIMUM PEAK STAGE			20.58	Feb 28	[a]25.49	May 11 1958
INSTANTANEOUS LOW FLOW			15	Sep 30	.20	Aug 15 1956
ANNUAL RUNOFF (AC-FT)	219400		547900		498000	
ANNUAL RUNOFF (CFSM)	.52		1.31		1.19	
ANNUAL RUNOFF (INCHES)	7.14		17.84		16.22	
10 PERCENT EXCEEDS	782		2030		2000	
50 PERCENT EXCEEDS	100		349		243	
90 PERCENT EXCEEDS	19		47		31	

[a]At present datum



07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-1972, October 1973, January 1975, December 1975 to August 1976, Water years 1977 through 1979, and Water years 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT													
17...	1055	81213	80513	77	754	7.4	78	7.5	474	17.5	160	40.0	15.0
JAN													
16...	1345	81213	80513	388	781	7.8	59	7.7	86	4.9	24	6.10	2.20
FEB													
27...	1445	81213	80513	3840	780	7.2	64	7.0	51	10.9	16	3.90	1.40
MAY													
08...	1400	81213	80513	328	770	4.5	52	7.2	77	22.3	26	6.60	2.20
JUN													
19...	1100	81213	80513	253	767	5.2	64	7.3	202	26.5	63	16.0	5.60
AUG													
28...	1400	81213	80513	144	775	4.7	58	8.0	398	27.4	140	36.0	13.0

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
17...	4.70	1	30.0	28	44.0	12.0	266	<.010	.78	--	.030	<.010	--
JAN													
16...	3.20	.4	4.8	27	4.7	10.0	67	<.010	.69	--	.310	<.010	--
FEB													
27...	2.30	.3	2.4	22	1.7	3.8	41	.015	.81	.02	.140	<.010	.80
MAY													
08...	3.00	.3	3.7	22	3.0	4.8	61	.016	1.1	.02	.240	<.010	1.1
JUN													
19...	3.30	.7	12.0	28	15.0	8.6	126	.034	.97	.04	.610	<.010	.94
AUG													
28...	4.60	.8	23.0	25	36.0	6.3	235	.040	.70	.05	.130	<.010	.66

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT											
17...	.81	.153	.060	.050	.090	E590	590	370	95	69	14
JAN											
16...	1.0	.153	.070	.050	.130	E35	110	E43	92	41	43
FEB											
27...	.95	.245	.080	.080	.220	E180	130	220	97	88	912
MAY											
08...	1.3	.337	.120	.110	.340	E40	E53	200	98	69	61
JUN											
19...	1.6	.215	.070	.070	.210	40	50	82	96	63	43
AUG											
28...	.83	.337	.080	.110	.160	200	110	200	98	70	27

Remark codes used in this report:
< -- Less than
E -- Estimated value

07364185 BAYOU BARTHOLOMEW NEAR PORTLAND

LOCATION.--Lat 33°13'50", long 91°32'08", in SW1/4NE1/4 sec.8, T.17 S., R.4 W., Ashley County, Hydrologic Unit 08040205, at bridge on State Highway 278, 1.4 mi west of Portland.

DRAINAGE AREA.--1,109 mi².

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 96.85 ft above sea level. Auxiliary water-stage recorder 7.8 mi upstream.

REMARKS.--Records good except estimated discharges and discharges below 100 ft³/s, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	57	1210	3230	3820	e7100	3530	1510	194	123	73	228
2	27	57	1300	e3170	3780	7150	3250	1450	221	113	62	282
3	26	57	1390	e3120	3690	7330	2980	1380	251	114	59	330
4	26	59	1470	e3000	3560	7470	2730	1310	290	118	64	349
5	25	60	1530	2690	3420	7530	2500	1230	358	104	70	413
6	26	62	1560	2520	3290	7530	2280	1150	432	95	72	496
7	27	62	1570	2360	3150	7480	2080	1070	465	94	74	576
8	26	62	1560	2220	3020	7380	1890	988	463	92	77	613
9	25	72	1530	2090	2900	7260	1690	894	453	87	79	608
10	24	81	1480	1970	2770	7100	1500	814	469	75	79	573
11	23	84	1430	1870	2630	6920	1320	728	439	70	86	513
12	23	87	1360	1760	2570	6850	1200	622	407	67	104	443
13	22	90	1300	1650	2780	6830	1230	514	377	67	132	421
14	22	104	1270	1540	2990	6810	1300	447	348	74	143	357
15	22	112	1220	1440	3240	6900	1540	392	326	77	158	299
16	22	134	1530	1340	3820	6850	1780	331	305	83	142	248
17	21	153	1790	1330	4560	6760	2040	298	289	88	134	198
18	22	165	1940	1910	e5060	6630	2220	290	278	94	150	157
19	23	176	2000	2750	e5520	6460	2320	309	274	101	165	131
20	26	181	1990	3380	e5940	6280	2310	322	269	103	161	110
21	35	184	1930	3800	e6240	6080	2230	327	261	98	152	94
22	47	183	1810	4040	e6430	5880	2130	328	249	92	146	83
23	56	192	1690	4150	e6540	5670	2020	320	232	86	144	76
24	62	388	1580	4170	e6600	5460	1940	304	213	84	146	70
25	66	705	1480	4160	e6730	5240	1860	283	192	89	150	65
26	67	763	1400	4140	e6730	5000	1800	260	171	91	154	59
27	66	813	1710	4070	e6830	4750	1740	238	159	96	158	55
28	64	893	2190	3960	e7130	4510	1690	219	152	107	172	51
29	63	999	2660	3870	---	4270	1630	203	142	113	173	47
30	61	1110	2970	3860	---	4020	1580	186	133	106	173	45
31	59	---	3160	3830	---	3770	---	186	---	88	180	---
TOTAL	1131	8145	53010	89390	125740	195270	60310	18903	8812	2889	3832	7990
MEAN	36.5	272	1710	2884	4491	6299	2010	610	294	93.2	124	266
MAX	67	1110	3160	4170	7130	7530	3530	1510	469	123	180	613
MIN	21	57	1210	1330	2570	3770	1200	186	133	67	59	45
AC-FT	2240	16160	105100	177300	249400	387300	119600	37490	17480	5730	7600	15850

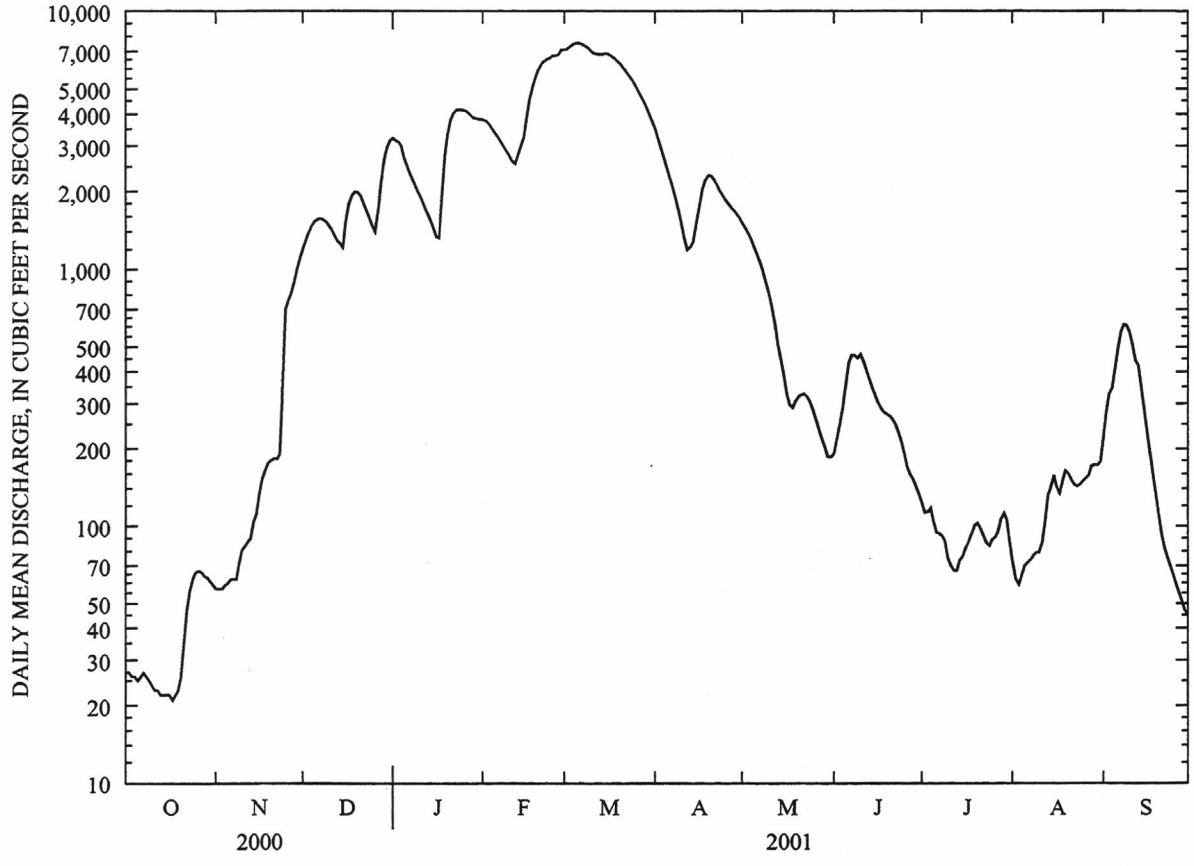
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	41.8	126	743	1866	3218	2924	2570	676	293	114	76.6	106
MAX	60.6	275	1710	2880	5159	6299	2950	845	340	182	134	271
(WY)	1999	2001	2001	2001	1999	2001	2000	2000	2000	1999	2001	2001
MIN	32.0	27.8	152	66.2	114	667	2012	572	244	59.4	40.3	33.0
(WY)	2000	2000	2000	2000	2000	2000	2001	1999	1999	2000	2000	2000

07364185 BAYOU BARTHOLOMEW NEAR PORTLAND--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	217303		575422			
ANNUAL MEAN	594		1576		1051	
HIGHEST ANNUAL MEAN					1578	2001
LOWEST ANNUAL MEAN					441	2000
HIGHEST DAILY MEAN	4370	Apr 8	7530	Mar 5	7530	Mar 5 2001
LOWEST DAILY MEAN	21	Oct 17	21	Oct 17	21	Oct 17 2000
ANNUAL SEVEN-DAY MINIMUM	22	Oct 12	22	Oct 12	22	Oct 13 2000
MAXIMUM PEAK FLOW			7540	Mar 6	7540	Mar 6 2001
MAXIMUM PEAK STAGE			35.90	Mar 6	35.90	Mar 6 2001
INSTANTANEOUS LOW FLOW			21	Oct 17	21	Oct 17 2000
ANNUAL RUNOFF (AC-FT)	431000		1141000		761600	
10 PERCENT EXCEEDS	1640		5020		3240	
50 PERCENT EXCEEDS	135		439		192	
90 PERCENT EXCEEDS	29		62		33	

[e]Estimated



07369680 BAYOU MACON AT EUDORA

LOCATION.--Lat 33°06'09", long 91°15'08", in SE1/4SE1/4 sec.25, T.18 S., R.2 W., Chicot County, Hydrologic Unit 08030100, near left bank on downstream side of bridge on U.S. Highway 65, 0.6 mi south of Eudora.

DRAINAGE AREA.--500 mi^2.

PERIOD OF RECORD.--October 1988 to current year. Gage-height record and results of discharge measurements since January 1938, are contained in reports of the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 80.92 ft above sea level. Satellite telemeter at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1938, 27.43 ft May 10, 22, 1958.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	59	187	480	189	1820	e83	e85	251	106	82	381
2	67	60	158	339	149	1740	e81	e84	162	85	74	465
3	66	74	132	279	124	e1700	e79	e82	122	80	84	345
4	65	71	111	236	100	e1450	e77	e82	e90	64	94	239
5	64	77	96	202	93	e1200	e76	e82	e82	95	99	255
6	80	83	86	169	86	e950	e74	e80	103	103	98	271
7	74	92	77	140	78	741	e73	e80	108	99	91	168
8	64	123	75	123	71	626	e73	e80	e98	101	88	141
9	63	224	73	107	67	620	e72	e79	e90	93	98	e122
10	62	160	72	94	66	394	e72	e79	e84	64	202	e116
11	62	111	71	109	64	216	e71	e79	e88	e57	239	e112
12	62	88	71	126	424	852	e160	e78	e95	67	136	e94
13	62	78	82	104	1020	1450	358	e78	90	91	141	e89
14	62	71	105	88	751	985	241	e78	85	180	142	e85
15	61	67	183	75	440	1150	441	e78	93	164	122	e82
16	61	70	929	69	1110	852	377	e77	83	109	111	e78
17	61	74	974	219	1790	521	229	e77	92	70	109	e76
18	61	67	535	1130	1520	385	158	e77	90	90	155	e74
19	61	68	280	2140	1060	308	125	e90	e70	80	138	e72
20	61	66	199	2190	662	248	107	138	e65	65	116	e70
21	61	64	163	1770	645	198	e104	114	e62	e58	110	e68
22	61	63	132	e1220	646	153	e101	219	e72	71	100	67
23	60	63	109	e700	573	128	e97	178	94	81	94	65
24	59	483	96	408	512	115	e93	111	100	72	93	65
25	60	1380	88	324	592	108	e92	e92	99	e63	93	64
26	59	1120	86	263	496	e102	e91	e82	77	70	93	63
27	60	656	1230	219	772	e98	e90	e77	e70	112	90	63
28	60	364	1900	182	1760	e94	e89	e74	184	213	92	62
29	59	242	1920	227	---	e90	e87	e72	201	210	93	62
30	59	217	1360	294	---	e88	e86	e70	137	146	101	62
31	59	---	882	236	---	e85	---	258	---	102	211	---
TOTAL	1943	6435	12462	14262	15860	19467	3957	3010	3137	3061	3589	3976
MEAN	62.7	214	402	460	566	628	132	97.1	105	98.7	116	133
MAX	80	1380	1920	2190	1790	1820	441	258	251	213	239	465
MIN	59	59	71	69	64	85	71	70	62	57	74	62
AC-FT	3850	12760	24720	28290	31460	38610	7850	5970	6220	6070	7120	7890

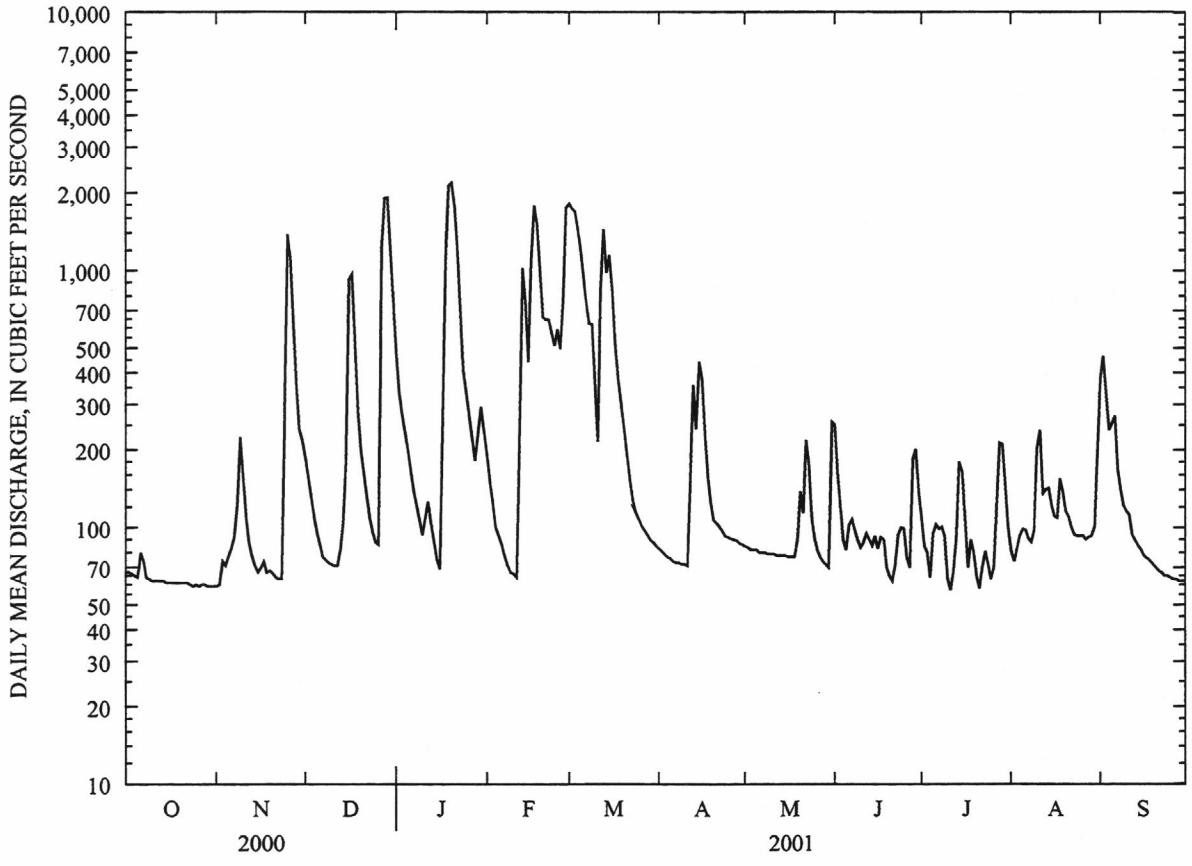
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

MEAN	89.3	123	286	475	512	401	401	293	183	259	162	97.6
MAX	297	218	651	924	1174	858	1053	1510	330	847	425	150
(WY)	1995	1992	1991	1999	1991	1995	1991	1991	1989	1994	1994	1994
MIN	41.8	51.5	58.5	51.0	51.1	98.1	63.0	72.0	105	90.5	83.7	61.8
(WY)	1994	1996	2000	2000	2000	1993	1998	1992	2001	1997	1997	1997

07369680 BAYOU MACON AT EUDORA--CONTINUED

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001	
ANNUAL TOTAL	66494		91159			
ANNUAL MEAN	182		250		272	
HIGHEST ANNUAL MEAN					493	1991
LOWEST ANNUAL MEAN					130	1996
HIGHEST DAILY MEAN	2670	Apr 4	2190	Jan 20	4170	Apr 23 1995
LOWEST DAILY MEAN	35	Feb 22	57	Jul 11	1.7	Sep 23 1988
ANNUAL SEVEN-DAY MINIMUM	37	Feb 18	59	Oct 26	34	Sep 28 1988
MAXIMUM PEAK FLOW			2290	Jan 19	4280	Apr 23 1995
MAXIMUM PEAK STAGE			18.70	Jan 19	24.41	Apr 29 1991
INSTANTANEOUS LOW FLOW			58	Nov 1	32	May 21 1995
ANNUAL RUNOFF (AC-FT)	131900		180800		197400	
10 PERCENT EXCEEDS	308		658		605	
50 PERCENT EXCEEDS	88		94		108	
90 PERCENT EXCEEDS	43		64		56	

[e]Estimated



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

Crest-Stage Partial-Record Stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation of each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but it is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
ST. FRANCIS RIVER BASIN								
07047823 Murray Creek Tributary near Jonesboro	Lat 35°51'51", long 90°38'27", in SW1/4SW1/4 sec.2, T.14 N., R.4 E., Craighead County, Hydrologic Unit 08020203, on wingwall at culvert on U.S. Highway 49, 4.0 mi northeast of Jonesboro. Drainage area is 0.36 mi^2.	1986-01	2-15-01	12.06	310	2-15-01	12.06	310
07047860 Higginbotham Creek at Jonesboro	Lat 35°48'48", long 90°42'29", in NE1/4NW1/4 sec.30, T.14 N., R.4 E., Craighead County, Hydrologic Unit 08020203. Drainage area is 0.95 mi^2.	1992-01	2-15-01 5-29-00 1-22-99 7-31-98 6-24-96 7-5-95 7-2-94 5-31-93 11-20-91	17.68 17.22 16.88 17.47 17.08 16.86 [c]17.68 [c]17.10 [c]17.39	471 [h]355 [h]275 [h]408 [h]320 [h]275 [h]450 [h]325 [h]395	8-20-97	18.03	[h]570
07047880 Pope Creek Tributary at Birdeye	Lat 35°22'35", long 90°42'00", in NE1/4SE1/4 sec.30,T.9 N., R.4 E., Cross County, Hydrologic Unit 08020203, at culvert on State Highway 42, 0.9 mi west of Birdeye. Drainage area is 0.08 mi^2.	1963-01	–	<3.73	–	9-13-78	7.73	253
070479475 Spring Creek at Forrest City	Lat 35°00'56", long 90°47'34", in SE1/4NW1/4 sec.28, T.5 N., R.3 E., St. Francis County, Hydrologic Unit 08020205, on Cherry Street in Forrest City. Drainage area is 0.54 mi^2.	1990-01	5-21-01	14.03	108	4-5-97	16.94	380
WHITE RIVER BASIN								
07048900 Whitener Branch Tributary near Spring Valley	Lat 36°10'24", long 93°54'59", in SE1/4NW1/4 sec.1, T.17 N., R.28 W., Washington County, Hydrologic Unit 11010001, at culvert on State Highway 68, 1.0 mi east of Spring Valley. Drainage area is 1.07 mi^2.	1960-01	–	<4.84	–	7-25-60	17.60	1,410
07050285 Osage Creek at Osage	Lat 36°11'19", long 93°24'51", in NW1/4SE1/4 sec.27, T.18 N., R.23 W., Carroll County, Hydrologic Unit 11010001, at bridge on State Highway 68, 0.7 mi northwest of Osage. Drainage area is 82.3 mi^2.	1989-01	–	<7.76	–	5-3-90	14.91	27,000
07053207 Long Creek at Denver	Lat 36°23'23" long 93°19'01" in NW1/4NE1/4SE1/4, sec. 16, T.20N., R.22 W., Carroll County Hydrologic Unit 11010001, on left bank, at the downstream side of county road, 0.2 mi southwest of Denver, and 0.4 mi upstream from Dry Creek. Drainage area is 104 mi^2.	1995-01	–	a	–	4-22-96	[b]14.03	12,000
07054410 Bear Creek near Omaha	Lat 36°26'50", long 92°56'00", in NE1/4NE1/4NW1/4 sec.26, T.21 N., R.20 W., Boone County, Hydrologic Unit 11010003, attached to downstream end of bridge pier near right bank on State Highway 14, 6.5 mi east of Omaha. Drainage area is 133 mi^2.	1995-01	2-15-01	4.10	1,630	11-7-96	9.20	9,870
07054450 East Sugarloaf Tributary near Lead Hill	Lat 36°22'28", long 92°49'52", in NW1/4NW1/4 sec.19, T.20 N., R.17 W., Marion County, Hydrologic Unit 11010003, at culvert on State Highway 14, 5.0 mi southeast of Lead Hill. Drainage area is 0.85 mi^2.	1962-01	7-26-01	9.52	530	10-13-68	15.30	2,480

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
	WHITE RIVER BASIN--CONTINUED							
07055000 White River near Flippin	Lat 36°18'35", long 92°33'28", in NE1/4NW1/4 sec.10, T.19 N., R.15 W., Marion County, Hydrologic Unit 11010003, on right bank 1.4 mi upstream from Hightower Creek, 3.2 mi northeast of Flippin. Drainage area is 6,081 mi^2.	1928-80[f] 1981-91 1992-01[g]	8-8-01	13.10	--	4-17-45	39.82	215,000
07055608 Crooked Creek at Yellville	Lat 36°13'23", long 92°40'47" in NW1/4NE1/4 sec.9, T.18 N., R.16 W., Marion County, Hydrologic Unit 11010003, on left bank at bridge on State Highway 14 at Yellville. Drainage area is 406 mi^2.	1958-88 1988-94[f] 1995-01	2-16-01	9.24	3,950	5-3-90	25.20	38,700
07058980 Bennetts River at Vidette	Lat 36°25'19", long 92°07'07", in SW1/4SE1/4SE1/4 sec.2, T.20 N., R.11 W., Fulton County, Hydrologic Unit 11010006, on State Highway 87, 2.9 mi north from intersection with State Highway 62, 0.8 mi south of Vidette. Drainage area is 68.2 mi^2.	1995-01	2-16-01	6.34	1,240	11-5-94	10.99	5,060
07059450 Big Creek near Elizabeth	Lat 36°21'25" long 92°06'51", in NE1/4SE1/4NW1/4 sec.36, T.20 N., R.11 W., Fulton County, Hydrologic Unit 11010006, at downstream right bank bridge abutment on State HIghway 87, 1.9 mi northwest of Elizabeth.	1995-01	2-24-01	10.82	1,110	11-5-94	15.15	a
07060728 White River at Allison	Lat 35°56'21", long 91°38'28", in NW1/4NW1/4 sec.13, T.15 N., R.11 W, Stone County, Hydrologic Unit 11010004, on right upstream side of wingwall of bridge on State Highway 9 at Allison. Drainage area is 10,458 mi^2.	1997-01[g]	2-17-01	303.56	--	3-20-98	303.33	--
07069250 Brush Creek near Mammoth Spring	Lat 36°25'36", long 91°29'27", in SE1/4SE1/4 sec.34, T.21 N., R.5 W., Fulton County, Hydrologic Unit 11010010, at culvert on U.S. Highway 63, 5.5 mi southeast of Mammoth Spring. Prior to 1967 published as Spring River Tributary near Mammoth Spring. Drainage area is 0.48 mi^2.	1961-01	--	<6.93	--	4-22-73	15.05	960
07069410 Ferguson Creek near Ravenden Springs	Lat 36°17'29", long 91°14'29", in NE1/4SE1/4 sec.13, T.19 N., R.3 W., Randolph County, Hydrologic Unit 11010010, at bridge on State Highway 90, 1.9 mi southwest of Ravenden Springs. Drainage area is 3.79 mi^2.	1989-01	--	<5.16	--	4-28-98	10.02	3,200
07069500 Spring River at Imboden	Lat 36°12'19", long 91°10'19", in SE1/4NE1/4 sec.15, T.18 N., R.2 W., Randolph County, Hydrologic Unit 11010010, near left bank on downstream side of bridge on U.S. Highway 62 at Imboden, 1.8 mi upstream from Harding Creek, 3.9 mi downstream from Janes Creek, 8.2 mi upstream from Eleven Point River, and at mile 12.1. Drainage area is 1,183 mi^2.	1936-94[f] 1995-01	2-15-01	15.62	13,700	12-3-82	[b]38.12	244,000
07074000 Strawberry River near Poughkeepsie	Lat 36°06'37", long 91°26'59", in SE1/4NW1/4 sec.19, T.17 N., R.4 W., Sharp County, Hydrologic Unit 11010012, on left bank 250 ft upstream of bridge on State Highway 58, 0.5 mi downstream from Hurricane Creek, 2.5 mi northeast of Poughkeepsie, and at mile 35.9. Drainage area is 473 mi^2.	1936-94[f] 1995-01	2-15-01	16.04	14,100	12-3-82	[b]35.90	158,000
07074850 White River near Augusta	Lat 35°18'02", long 91°23'35", in SE1/4SE1/4 sec.22, T.8 N., R.4 W., Woodruff County, Hydrologic Unit 11010013, on left bank of Taylor Bay 0.5 mi upstream from White River, 0.7 mi from bridge on U.S. Highway 64 and 1.5 mi northwest of Augusta. Drainage area is 20,464 mi^2.	1983-94 1995-01[g]	2-21-01	32.47	--	12-7-82	38.31	250,000
07074865 Glaise Creek near Bradford	Lat 35°27'45", long 91°32'49", in NW1/4SW1/4 sec.28, T.10 N., R.5 W., Jackson County, Hydrologic Unit 11010013, at bridge on State Highway 87, 5.9 mi northwest of Bradford. Drainage area is 8.35 mi^2.	1989-01	2-15-01 3-16-00 1-2-99 3-5-98 4-5-97 11-5-94 11-17-93 4-15-93 10-30-91 3-8-90 2-15-89	7.90 4.68 5.71 5.19 8.04 6.12 6.36 4.47 4.84 7.47 7.68	2,600 [c]450 [c]900 [c]640 [h]2,800 [c]1,130 [c]1,280 [c]370 [c]510 [h]2,250 [h]2,400	1-6-91	8.4	[h]3,200

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
	WHITE RIVER BASIN--CONTINUED							
07075000 Middle Fork of Little Red River at Shirley	Lat 35°39'25", long 92°17'34", in SW1/4 sec.20, T.12 N., R.12 W., Van Buren County, Hydrologic Unit 11010014, on right bank 0.5 mi downstream from Sugar Camp or Weavers Creek, 1.0 mi east of Shirley. Drainage area is 302 mi^2.	1939-84[f] 1985-94 1995-01[g]	2-16-01	18.15	15,400	12-3-82	37.53	241,000
07075300 South Fork Little Red River at Clinton	Lat 35°35'29", long 92°27'20", in SW1/4 sec.14, T.11 N., R.14 W., Van Buren County, Hydrologic Unit 11010014, near right bank on upstream side of bridge on U.S. Highway 65 at Clinton, 0.2 mi upstream from Archey Creek, and at mile 23.7. Drainage area is 148 mi^2.	1961-94[f] 1995-01	2-16-01	13.37	7,870	12-3-82	[b]34.27	67,900
07075600 Choctaw Creek Tributary near Choctaw	Lat 35°31'30", long 92°25'03", in SE1/4SW1/4 sec.6, T.10 N., R.13 W., Van Buren County, Hydrologic Unit 11010014, at culvert on State Highway 330, 1.4 mi east of Choctaw. Drainage area is 1.36 mi^2.	1964-01	--	<9.08	--	12-3-82	19.07	1,760
07075800 Dill Branch Tributary near Ida	Lat 35°32'36", long 91°57'25", in SW1/4NE1/4 sec.33, T.11 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, at culvert on State Highway 25, 3.5 mi southwest of Ida. Prior to 1975 published as Peter Creek Tributary near Ida. Drainage area is 0.11 mi^2.	1964-01	2-15-01	6.10	24	4-2-79	9.96	230
07076630 Key Branch near Searcy	Lat 35°14'47", long 91°47'01", in NW1/4SW1/4 sec.8, T.7 N., R.7 W., White County, Hydrologic Unit 11010014, at culvert on State Highway 36, 2.8 mi west of Searcy. Prior to 1964 published as Little Red River Tributary near Searcy. Drainage area is 0.66 mi^2.	1961-01	2-15-01	5.60	136	11-24-73	7.79	573
07076634 Litte Red River at Judsonia	Lat 35°16'01", long 91°38'23", in NW1/4NW1/4 sec.3, T.7 N., R.7 W., White County, Hydrologic Unit 11010014, at highway bridge on county road just south of Highway 385 curve at south edge of Judsonia, at mile 25.2. Drainage area is 1,693 mi^2.	1982-01	2-17-01	28.44	--	a	a	a
07076750 White River at Georgetown	Lat 35°07'45", long 91°27'00", in SW1/4SW1/4 sec.20, T.6 N., R.4 W., White County, Hydrologic Unit 08020301, on right bank at Arkansas Game and Fish Commission boat launching area at Georgetown, and at mile 167. Drainage area is 22,387 mi^2.	1978-90 1991-94[f] 1995-01	2-26-01	21.14	61,400	3-8-97	22.93	80,900
07076870 Pigeon Roost Creek at Butlerville	Lat 34°58'36", long 91°50'38", in NW1/4NE1/4 sec.15, T.4 N., R.8 W., Lonoke County, Hydrologic Unit 08020301, at bridge on State Highway 38, 0.6 mi west of Butlerville. Drainage area is 23.0 mi^2.	1961-01	2-15-01	10.69	2,080	4-21-74	12.62	8,800
07077100 Big Creek near Boydsville	Lat 36°22'12", long 90°19'50", in SE1/4NW1/4, sec.16, T.20 N., R.7 E., Clay County, Hydrologic Unit 08020302, at bridge on county road, 0.5 mi south of Crockett and 4.0 mi northeast of Boydsville. Drainage area is 12.9 mi^2.	1962-81 1993-01	2-15-01	12.61	1,600	4-19-73	19.14	4,700
07077200 Big Creek Tributary near Boydsville	Lat 36°22'32", long 90°19'56", in SE1/4SW1/4 sec.9, T.20 N., R.7 E., Clay County, Hydrologic Unit 08020302, at culvert on county road, 0.1 mi west of Crockett, and 4.1 mi northeast of Boydsville. Drainage area is 1.58 mi^2.	1962-01	2-15-01	7.86	440	7-25-98	9.94	790
07077430 Willow Ditch near Egypt	Lat 35°56'29", long 90°56'33", in SW1/4SW1/4 sec.12, T.15 N., R.1 E., Lawrence County, Hydrologic Unit 08020302, at culvert on State Highway 91, 5.1 mi north of Egypt. Drainage area is 0.25 mi^2.	1963-01	5-21-01	5.03	11.9	12-21-91	i6.37	112
07077650 Big Creek near Jonesboro	Lat 35°51'11", long 90°45'00", in SE1/4SE1/4 sec.10, T.14 N., R.3 E., Craighead County, Hydrologic Unit 08020302, at bridge on State Highway 63, 1.3 mi west of Jonesboro. Drainage area is 50.6 mi^2.	1989-01	2-15-01 5-29-00 10-5-98 4-28-98 1-18-95 11-14-93 4-13-91 4-17-90 11-19-88	[b]21.08 >13.34 14.55 14.40 [b]14.58 [c]16.93 [c]20.62 [c]16.49 [c]17.26	3,400 [h]>1,700 [h]2,050 [h]1,980 [h]2,010 [h]2,570 [h]3,300 [h]2,500 [h]2,660	4-05-97	[b]22.00	[h]3,600

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
	WHITE RIVER BASIN--CONTINUED							
07077655 Christian Creek at GE Drive at Jonesboro	Lat 35°50'29", long 90°43'33", in NW1/4SW1/4, sec.3, T.14 N, R.3 E., Craighead County, Hydrologic Unit 08020302, 100 ft west of Gee Street in Jonesboro, on bridge at entrance to General Electric plant. Drainage area is 3.78 mi^2.	1993-01	2-15-01 5-29-00 6-23-99 5-26-98 8-20-97 10-28-96 6-15-94	16.02 11.04 11.48 10.80 15.40 11.19 13.00	1,700 [h]595 [h]670 [h]550 [h]1,530 [h]615 [h]950	2-15	16.02	1,700
*07077920 Big Creek at Goodwin	Lat 34°56'22", long 91°00'55", in NE1/4NE1/4 sec.29, T.4 N., R.1 E., St. Francis County, Hydrologic Unit 08020304, at bridge on U.S. Highway 70, 0.3 mi east of Goodwin. Drainage area is 31.1 mi^2.	1961-01	2-25-01	9.50	660	12-25-87	10.35	1,250
07077940 Spring Creek near Aubrey	Lat 34°41'16", long 90°53'45", in SW1/4SE1/4, sec.16, T.1 N., R.2 E., Lee County, Hydrologic Unit 08020304, at bridge on State Highway 121, 2.1 mi south of Aubrey. Drainage area is 38.0 mi^2.	1962-80 1993-01	2-14-01	14.54	1,550	4-5-97	16.11	2,050
	ARKANSAS RIVER BASIN							
07249444 Mill Creek near Jenny Lind Road in Fort Smith	Lat 35°18'14", long 94°24'42", in NW1/4SE1/4 sec.9, T.7 N., R.32 W., Sebastian County, Hydrologic Unit 11110105, on downstream side of bridge on Jenny Lind Road in Fort Smith. Drainage area is 1.18 mi^2.	1999-01	2-24-01	3.58	340	6-30-99	b7.42	1,600
07249447 Mill Creek at Fort Smith	Lat 35°20'34", long 94°25'20", in NW1/4NW1/4 sec.33, T.8 N., R.32 W., Sebastian County, Hydrologic Unit 11110104, on right bank 30 ft upstream from bridge on Towson Avenue in Fort Smith. Drainage area is 10 mi^2.	1981-01	5-21-01 6-17-01 1-4-98	31.39 30.33 30.79	[a] [a] [a]	5-02-90	36.40	2,400
07249457 May Branch at Fort Smith	Lat 35°22'30", long 94°23'51", in NE1/4SW1/4 sec.15, T.8 N., R.32 W., Sebastian County, Hydrologic Unit 11110104, on upstream side of bridge on Free Ferry Road. Drainage area is 1.0 mi^2.	1981-86' 1993-01	2-24-01	5.81	390	12-2-82	8.01	580
07249490 Lee Creek near Lee Creek	Lat 35°42'12", long 94°19'37", in NW1/4SE1/4 sec.19, T.12 N., R.31 W., Crawford County, Hydrologic Unit 11110104, at bridge on State Highway 220, 1.8 mi northeast of Lee Creek. Drainage area is 93.5 mi^2.	1988-01	--	<11.50	--	6-21-00 5-3-90	15.39 15.39	23,700 23,700
07249500 Cove Creek near Lee Creek	Lat 35°43'20", long 94°24'28", in SW1/4NW1/4 sec.16, T.12 N., R.32 W., Crawford County, Hydrologic Unit 11110104, at bridge on U.S. Forest Service road, 4.5 mi northwest of Lee Creek. Drainage area is 35.3 mi^2.	1951-70' 1971-01	--	<5.78	--	5-5-60	15.60	33,600
07249950 Webber Creek Tributary near Cedarville	Lat 35°36'00", long 92°22'49", in SE1/4SE1/4 sec.27, T.11 N., R.32 W., Crawford County, Hydrologic Unit 11110104, at culvert on State Highway 59, 2.3 mi north of Cedarville. Drainage area is 0.34 mi^2.	1962-01	2-24-01	5.24	32	10-26-70	7.71	274
07250514 Sunnymede Creek at North 46th Terrace at Ft Smith	Lat 35°23'53", long 94°22'50", in NE1/4NW1/4 sec.11, T.8 N., R.32 W., SebastianCounty, Hydrologic Unit 11110105, on upstream side of bridge at North 46th Terrace in Ft. Smith. Drainage area is 1.13 mi^2.	1997-98' 1999-01	2-24-01	4.91	306	6-30-99	6.02	423
07251500 Frog Bayou at Rudy	Lat 35°31'32", long 94°16'18", in SW1/4SW1/4 sec.23, T.10 N., R.31 W., Crawford County, Hydrologic Unit 11110104, at bridge on State Highway 282 at Rudy. Drainage area is 216 mi^2.	1951-70' 1971-01	2-15-01	10.45	9,110	5-30-90	18.76	41,300
07251790 Mulberry River near Oark	Lat 35°41'01", long 93°35'57", in NW1/4SE1/4 sec.24, T.12 N., R.25 W., Johnson County, Hydrologic Unit 11110201, at bridge on State Highway 103, 1.5 mi west of Oark. Drainage area is 70.2 mi^2.	1988-01	2-16-01	10.89	8,800	6-17-00	17.63	32,900
07256490 Greenbrier Creek at Clarksville	Lat 35°2815", long 93°27'09", in NW1/4NW1/4 sec.4, T.9 N., R.23 W., Johnson County, Hydrologic Unit 1111020, on State Highway 64 about 0.7 mi west of State Highway 21 North junction, at Clarksville. Drainage area is 26.7 mi^2.	1993-01	2-16-01	6.67	790	11-5-94	8.57	1,780

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
	ARKANSAS RIVER BASIN--CONTINUED							
*07256500 Spadra Creek at Clarksville	Lat 35°28'06", long 93°27'46", in NW1/4NE1/4 sec.5, T.9 N., R.23 W., Johnson County, Hydrologic Unit 11110202, on right bank at Clarksville, 0.2 mi downstream from bridge on U.S. Highway 64. Drainage area 61.1 mi^2.	1953-70[f] 1971-01[d]	2-16-01	10.98	5,120	6-5-74	19.93	27,400
07256700 Big Shoal Creek near New Blaine	Lat 35°17'30", long 93°27'37", in NW1/4SE1/4 sec.5, T.7 N., R. 23 W., Logan County, Hydrologic Unit 11110202, at bridge on State Highway 22, 2.3 mi west of New Blaine. Drainage area is 50.0 mi^2.	1989-01	2-16-01	12.13	6,450	5-3-90	19.11	26,100
07257100 Minnow Creek Tributary near Hagarville	Lat 35°30'11", long 93°21'56", in SE1/4SE1/4 sec.19, T.10 N., R.22 W., Johnson County, Hydrologic Unit 11110202, at culvert on State Highway 123, 2.6 mi southwest of Hagarville. Drainage area is 0.20 mi^2.	1962-01	--	<4.44	--	4-24-70	6.62	176
*07257200 Little Piney Creek near Lamar	Lat 35°26'54", long 93°20'17", in SW1/4NE1/4 sec.9, T.9 N., R.22 W., Johnson County, Hydrologic Unit 11110202, on left bank 600 ft upstream from State Highway 359 bridge, 3.0 mi east of Lamar. Drainage area is 154 mi^2.	1978-01	2-16-01	13.21	8,490	12-03-82	15.35	13,300
07258200 Pack Saddle Creek Tributary near Waldron	Lat 34°58'19", long 94°05'46", in SE1/4SE1/4 sec.29, T.4 N., R.29 W., Scott County, Hydrologic Unit 11110105, at culvert on U.S. Highway 71, 5.2 mi north of Waldron. Drainage area is 0.92 mi^2.	1961-01	2-16-01	2.68	a	5-13-68	9.42	689
07260640 Petit Jean River near Centerville	Lat 35°04'30", long 93°11'58", in NE1/4 sec.23, T.5 N., R.21 W. Yell County, Hydrologic Unit 11110204, on right bank 300 ft upstream from State Highway 7, 3.0 mi southeast of Centerville. Drainage area is 927 mi^2.	1988-90[g] 1991-94 1995-01[g]	2-18-01	21.84	--	5-5-90	26.40	--
*07260673 West Fork Point Remove Creek near Hattieville	Lat 35°19'25", long 92°52'22", in NE1/4SE1/4 sec.23, T.8 N., R.18 W., Pope County, Hydrologic Unit 11110203, on right bank about 300 ft upstream from State Highway 247 bridge, 0.4 mi downstream from Hackers Creek, 5.5 mi northwest of Hattieville. Drainage area is 222 mi^2.	1978-01	2-16-01	19.89	6,590	12-3-82	26.62	64,100
07260679 East Fork Point Remove Creek Tributary near Saint Vincent	Lat 35°16'09", long 92°44'00", in NE1/4NE1/4 sec.7, T.7 N., R.16 W., Conway County, Hydrologic Unit 11110203, at culvert on State Highway 213, 2.2 mi south of Saint Vincent. Drainage area is 0.06 mi^2.	1967-01	--	<4.45	--	12-3-82	i8.24	102
07260800 Arkansas River at Morrilton	Lat 35°07'39", long 92°43'55", in SE1/4SW1/4 sec.29, T.6 N., R.16 W., Conway County, Hydrologic Unit 11110203, on left bank upstream from bridge on State highway 9, 2.0 mi southeast of Morrilton, 4.0 mi downstream from A.V. Ormon (No. 9) Lock and Dam, and at mile 189.1. Drainage area is 155,484 mi^2.	1927-01[g]	2-17-01	31.19	--	5-15-43	40.8	--
07261800 Brogan Creek near Rover	Lat 34°54'27", long 93°24'06", in NW1/4SE1/4 sec.13, T.3 N., R.23 W., Yell County, Hydrologic Unit 11110206, at culvert on State Highway 27, 2.7 mi south of Rover. Prior to 1968 published as Fourche LaFave River Tributary near Rover. Drainage area is 1.04 mi^2.	1963-01	2-16-01	5.40	240	12-3-82	[b]10.65	1,260
07263000 South Fourche LaFave River near Hollis	Lat 34°54'41, long 93°03'21", in SE1/4NE1/4 sec.18, T.3 N., R.19 W., Perry County, Hydrologic Unit 11110206, on left bank 0.8 mi upstream from Big Cove Creek, 2.1 mi downstream from Cedar Creek, 4.0 mi northeast of Hollis, and at mile 5.6. Drainage area is 210 mi^2.	1941-95[f] 1996-01	2-16-01	12.42	16,700	12-3-82	24.55	94,000
07263012 Fourche LaFave River near Aplin	Lat 34°57'37", long 92°58'50", in E1/2NE1/4 sec.35, T.4 N., R.19 W., Perry County, Hydrologic Unit 11110204, on right bank 30 ft upstream from bridge on State Highway 155, 1.0 mi south of Aplin. Drainage area is 957 mi^2.	1980-01	2-16-01	27.12	15,400	12-3-82	36.10	a

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
ARKANSAS RIVER BASIN--CONTINUED								
07263100 Fourche LaFave Tributary near Perryville	Lat 35°01'14", long 92°46'06", in NW1/4SW1/4 sec.1, T.4 N., R.17 W., Perry County, Hydrologic Unit 11110206, at culvert on State Highway 60, 2.2 mi northeast of Perryville. Drainage area is 1.47 mi^2.	1962-01	2-15-01 1-2-99 11-24-96 3-27-95 12-3-93 12-15-92 11-20-91 12-21-90 5-3-90	8.55 7.87 8.69 9.28 9.52 8.55 9.22 8.50 9.36	340 [c]195 [c]390 [c]580 [c]650 [c]340 [c]560 [c]330 [c]590	12-3-82	11.45	[c]1,550
07263400 Little Maumelle River at Ferndale	Lat 34°46'48", long 92°33'15", in NW1/4SE1/4 sec.25, T.2 N., R.15 W., Pulaski County, Hydrologic Unit 11110207, at bridge on Congo Road, 0.2 mi northeast of Ferndale. Drainage area is 15.0 mi^2.	1963-86 1993-01	2-16-01	9.72	3,230	3-10-73	15.01	10,800
07263426 Hickory Creek at Bent Tree Court in Little Rock	Lat 34°47'18", long 92°25'54", in SE1/4SE1/4 sec.19, T.2 N., R.13 W., Pulaski County, Hydrologic Unit 11110207, on downstream side of bridge at Bent Tree Court in Little Rock. Drainage area is 2.44 mi^2.	1997-98[r] 1999-01	8-10-01	5.16	2,000	8-10-01	5.16	2,000
07263465 Storm Ditch at Rollling Oaks Drive at Maumelle	Lat 34°52'41", long 92°24'03", in NW1/4SW1/4 sec.21, T.3 N., R.13 W., Pulaski County, Hydrologic Unit 11110207, on downstream side of culvert apron at Rolling Oaks Drive at Maumelle. Drainage area is 0.36 mi^2.	1997-98[r] 1999-01	8-10-01	4.00	187	5-28-97	4.23	211
07263500 Arkansas River at Little Rock	Lat 34°45'00", long 92°16'25", sec.3, T.1 N., R.12 W., on top of the second pier from the right bank of the new Main Street Bridge, 0.25 mile above Missouri Pacific Railway bridge at Little Rock, Pulaski County, and at mile 165.5. Gage can be reached by going east of Main Street on Markham Street to Cumberland Street (2 blocks east of Main) and to the left to the river. Drainage area is 158,201 mi^2 of which 22,242 mi^2 is probably noncontributing (determined from "Drainage Area Data, Arkansas, White, and Red River Basins").	1928-69[r] 1970-01[g]	2-18-01	16.91	--	5-27-43	30.05	536,000
07263570 Grassy Flat Creek at Reservoir Road at Little Rock	Lat 34°46'01", long 92°22'03", in SE1/4NE1/4 sec.34, T.2 N., R.13 W., Pulaski County, Hydrologic Unit 11110207, on downstream left bank of Reservoir Road bridge in Little Rock. Drainage area is 3.88 mi^2.	1974-87 1988-92[g] 1996-98[r] 1999-01	8-10-01	8.19	2,110	5-17-81	11.47	3,230
07263590 Coleman Creek at Little Rock	Lat 34°45'07", long 92°20'02", in SE1/4NW1/4 sec.6, T.1 N., R.12 W., Pulaski County, Hydrologic Unit 11110207, at Markham and N. Tyler in Little Rock. Drainage area is 1.08 mi^2.	1990-01	8-10-01	14.81	600	5-19-90	17.50	1,260
07263594 Coleman Creek at West 28th Street in Little Rock	Lat 34°43'36", long 92°20'17", in SW1/4SW1/4 sec.7, T.1 N., R.12 W., Pulaski County, Hydrologic Unit 11110207, at culvert on West 28th Street, 0.2 mi east of University Avenue, 1.1 mi upstream from mouth, and in Little Rock. Drainage area is 2.78 mi^2.	1997-98[r] 1999-01	8-10-01	12.79	2,320	8-10-01	11.86	2,320
07263650 Arkansas River at Pine Bluff	Lat 34°17'26", long 91°59'14", in NW1/4SW1/4 sec.9, T.5 S., R.9 W., Jefferson County, Hydrologic Unit 11110207, under U.S. Highway 79 bridge on top of pier cap near left bank, 1.0 mile northeast of Pine Bluff. 0.7 mile upstream from Boyd Point Cutoff, and at mile 73.7. Drainage area is 158,595 mi^2.	1948-01[g]	2-18-01	38.97	--	6-1-57	50.74	--
07263930 Rocky Branch at Braden and Marshall Roads at Jacksonville	Lat 34°52'14", long 92°07'41", in NE1/4SE1/4 sec24, T.3 N., R.11 W., Pulaski County, Hydrologic Unit 11110207, at Braden and Marshall Roads at Jacksonville. Drainage area is 0.48 mi^2.	1997-98[r] 1999-01	2-16-01	5.04	82	3-5-97	[l]4.15	[h]85
07264050 Bayou Two Prairie near Furlow (published as near Cabot 1993-99)	Lat 34°51'32", long 91°58'48" in SW1/4NW1/4 sec.28, T.3 N., R.9 W., Lonoke County, Hydrologic Unit 08020402, at bridge on State Highway 89, 1.8 mi north of Furlow. Drainage area is 84.9 mi^2.	1988-01	2-16-01	10.10	1,900	12-28-87	12.12	5,200
07265280 Arkansas River at Pendleton	Lat 33°58'45", long 91°22'40",at Pendleton, and approximately 9 miles NE of Dumas, AR, 44.5 miles above mouth. Drainage area is 160,200 mi^2.	1993-01[g]	2-19-01	29.53	--	5-11-95	30.02	--

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
RED RIVER BASIN								
07339500 Rolling Fork near DeQueen	Lat 34°02'51", long 94°24'47" in SW1/4SW1/4 sec.21, T.8 N., R.32 W., Sevier County, Hydrologic Unit 11140109, near span on downstream side of bridge on U.S. Highway 70, 4.0 mi, west of DeQueen. Drainage area is 182 mi^2.	1948-80' 1981-01	2-21-01	10.13	2,340	12-10-71	24.23	71,000
07340500 Cossatot River near DeQueen	Lat 34°02'45", long 94°12'42", in NE1/4NE1/4 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, 7.0 mi east of DeQueen. Drainage area is 360 mi^2.	1938-80' 1981-01	2-16-01	13.75	11,500	5-13-68	22.60	122,000
07341000 Saline River near Dierks	Lat 34°05'45", long 94°05'04", in NW1/4SW1/4 sec.3, T.8 S., R. 29 W., Howard County, Hydrologic Unit 11140109, near left bank on downstream side of U.S. Highway 70, 4.0 mi southwest of Dierks. Drainage area is 121 mi^2.	1938-80' 1981-01	2-16-01	9.80	2,230	5-13-68	22.95	59,200
07341260 Dillard Creek near Nashville	Lat 33°26'04", long 93°54'45", in NE1/4NE1/4 sec.30, T.9 S., R.27 W., Howard County, Hydrologic Unit 11140109, at bridge on State Highway 24, 4.1 mi west of Nashville. Drainage area is 5.82 mi^2.	1989-01	2-16-01	10.03	1,370	2-16-01	10.03	1,370
07344280 Nix Creek at E. 12th Street at Texarkana	Lat 33°26'04", long 94°01'33", in NW1/4SW1/4 sec.20, T.15 S., R.28 W., Miller County, Hydrologic Unit 11140302, at bridge on E. 12th Street at Texarkana, 0.1 mi west of junction with U.S. Highway 67. Drainage area is 8.87 mi^2.	1993-01	2-27-01	16.61	4,050	5-28-98	[b]20.50	8,260
07344285 Swampoodle Creek at Broad Street at Texarkana, Texas	Lat 33°25'06", long 94°02'57", in Bowie County, Texas, Hydrologic Unit 11140302, at bridge on Broad Street, 0.4 mi southwest of Arkansas-Texas State line. Drainage area is 424 mi^2.	1993-01	2-27-01	16.76	2,000	5-28-98	19.52	3,330
07348635 Big Creek Tributary at Magnolia	Lat 33°15'51", long 93°13'56", in NW1/4NE1/4 sec.13, T.17 S., R.21 W., Columbia County, Hydrologic Unit 11140203, at Dudney and Grayson St. in Magnolia. Drainage area is 0.34 mi^2.	1990-01	2-16-01	16.22	a	4-28-91	17.70	a
07355800 Lewis Creek Tributary near Mena	Lat 34°37'15", long 95°12'15", in NE1/4SW1/4 sec.33, T.1 S., R.30 W., Polk County, Hydrologic Unit 08040101, at culvert on U.S. Highway 71, 3.1 mi northeast of Mena. Drainage area is 0.65 mi^2.	1961-01	9-9-01	4.83	345	10-8-90	6.23	560
07357740 Bear Creek near Royal	Lat 34°30'30", long 93°15'21", in NE1/4NW1/4 sec.4, T.3 S., R.21 W., Garland County, Hydrologic Unit 08040101, at bridge on U.S. Highway 270, 1.0 mi west of Royal. Drainage area is 5.99 mi^2.	1989-01	2-14-01	6.32	a	3-8-90	i6.42	1,600
07357860 Stokes Creek at Kimery Road at Hot Springs	Lat 34°28'36", long 93°04'52", in SE1/4NW1/4 sec.18, T.3 S., R.19 W., Garland County, Hydrologic Unit 08040101, at bridge on Kimery Road, 2.8 mi southwest of Hot Springs Post Office. Drainage area is 3.02 mi^2.	1993-01	2-16-01	4.59	a	11-5-94	6.49	a
07359710 Rock Creek near Glenwood	Lat 34°18'34", long 93°32'21", in NW1/4NE1/4 sec.14, T.5 S., R.24 W. Pike County, Hydrologic Unit 08040102, at bridge on State Highway 8, 1.3 mi southeast of Glenwood. Drainage area is 8.62 mi^2.	1989-01	5-28-01	9.99	3,380	5-20-90	13.58	7,450
07359805 Valley Creek near Point Cedar	Lat 34°19'17", long 93°15'24", in NW1/4NE1/4 sec.9, T.5 S., R.21 W., Hot Spring County, Hydrologic Unit 08040102, at bridge on State Highway 84, 2.9 mi east of Point Cedar. Drainage area is 7.62 mi^2.	1989-01	2-16-01	9.02	1,900	5-20-90	16.9	10,500
07360100 L'Eau Frais at Joan	Lat 34°06'27", long 92°55'22", in SW1/4NE1/4 sec.22, T.7 S., R.18 W., Clark County, Hydrologic Unit 08040102, at bridge on State Highway 128, 0.7 mi southeast of Joan. Drainage area is 74.2 mi^2.	1989-01	2-15-01	6.23	2,100	04-14-93	8.16	[c]5,400
			5-18-00	4.01	[c]460			
			3-12-99	5.92	[c]1,800			
			2-10-98	4.56	[c]710			
			4-26-97	5.61	[c]1,470			
			8-2-96	4.29	[c]580			
			11-5-94	4.91	[c]920			
			12-3-93	6.85	[c]2,900			
			10-29-91	6.19	[c]2,100			
			10-9-90	5.62	[c]1,400			
			3-8-90	7.18	[c]3,400			
			3-29-89	6.93	[c]3,000			

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
RED RIVER BASIN--continued								
07360225 Little Blocker Creek near Langley	Lat 34°18'41", long 93°49'06", in SE1/4NE1/4 sec.18, T.5 S., R.26 W., Pike County, Hydrologic Unit 08040103, at bridge on State Highway 84, 1.3 mi east of Langley. Drainage area is 5.74 mi^2.	1989-01	5-28-01 6-18-00 1-1-99 2-11-98 4-5-97 5-7-96 5-8-95 3-16-93 12-9-91 4-14-91 3-8-90 11-19-88	[b]10.38 7.71 7.69 6.72 7.90 6.50 7.51 6.73 8.55 7.22 9.39 8.40	2,100 [h]630 [h]620 [h]310 [h]710 [h]255 [h]560 [h]315 [h]1,020 [h]460 [h]1,500 [h]930	12-3-93	11.79	[h]3,420
07361180 South Fork Ozan Creek near Ozan	Lat 33°49'15", long 93°42'28", in SE1/4SW1/4 sec.5, T.11 S., R.25 W., Hempstead County, Hydrologic Unit 08040103, at bridge on State Highway 4, 2.0 mi south of Ozan. Drainage area is 17.7 mi^2.	1963-01	2-16-01	20.15	2,300	4-19-73	25.06	8,360
07361760 Bell Creek near Hollywood	Lat 34°05'47", long 93°16'53", in NW1/4NE1/4 sec.31, T.7 S., R.21 W., Clark County, Hydrologic Unit 08040103, at bridge on State Highway 26, 2.0 mi west of Hollywood. Drainage area is 9.22 mi^2.	1988-01	2-15-01	10.65	1,230	12-26-87	14.0	2,600
07361894 Mill Creek near Holly Springs	Lat 33°46'01", long 92°39'52", in SE1/4SW1/4 sec.17, T.11 S., R.15 W., Ouachita County, Hydrologic Unit 08040102, at bridge on State Highway 203, 4.2 mi southeast of Holly Springs. Drainage area is 9.01 mi^2.	1989-01	5-7-01	11.84	470	4-5-97	14.47	4,500
07362330 Dunn Creek near Hampton	Lat 33°32'05", long 92°30'55", in SE1/4NW1/4 sec.2, T.14 S., R.14 W., Calhoun County, Hydrologic Unit 08040201, at bridge on State Highway 4, 2.8 mi west of Hampton. Drainage area is 13.6 mi^2.	1962-01	2-16-01	8.93	2,000	5-1-66	10.11	4,240
07362500 Moro Creek near Fordyce	Lat 33°47'32", long 92°20'00, in NW1/4NW1/4 sec.3, T.11 S., R.12 W., Calhoun-Cleveland County line, Hydrologic Unit 08040201, on downstream side of bridge on State Highway 8, 4.0 mi southeast of Fordyce. Drainage area is 240 mi^2.	1952-83[f] 1984-01	2-18-01	13.87	9,200	5-2-58	16.47	26,800
07362591 Alum Fork Saline River at Winona Dam at Reform	Lat 34°47'51", long 92°50'43, in NE1/4NE1/4 sec.30, T.2 N., R.17 W., Saline County, Hydrologic Unit 08040203, at water intake 500 ft above dam, 0.8 mi northwest of Reform. Drainage area is 44.4 mi^2.	1995-01	2-16-01	42.52	--	2-16-01	42.52	--
07362715 Big Creek near Crow	Lat 34°37'00", long 92°43'35", in NE1/4NW1/4 sec.28, T.1 S., R.16 W. Saline County, Hydrologic Unit 08040203, at bridge on State Highway 5, 2.5 mi east of Crow. Drainage area is 4.7 mi^2.	1988-01	11-24-00	7.27	1,280	12-28-87	9.68	5,300
07363200 Saline River near Sheridan	Lat 34°06'56", long 92°24'21", in NE1/4NW1/4 sec.15, T.7 S., R.13 W., Grant County, Hydrologic Unit 08040203, on downstream side of bridge on U.S. Highway 167, 13.5 mi south of Sheridan. Drainage area is 1,123 mi^2.	1971-82[f] 1983-01	2-19-01	18.67	31,300	12-28-87	22.66	73,900
07363435 Derrieusseaux Creek near Grapevine	Lat 34°08'44", long 92°14'38", in NE1/4NW1/4 sec.5, T.7 S., R.11 W., Grant County, Hydrologic Unit 08040203, at bridge on State Highway 54, 4.2 mi east of Grapevine. Drainage area is 77.0 mi^2.	1988-01	2-16-01 3-13-99 2-19-96 1-19-95 1-28-94 3-10-92 4-29-91 3-8-90 3-29-89 12-26-87	>8.46 9.03 6.80 9.14 9.62 8.15 10.44 7.94 [c]10.00 10.74	>980 [c]1,650 [c]375 [c]1,750 [c]2,500 [c]760 [c]4,700 [h]640 [h]3,600 [c]5,700	4-5-97	11.50	a
07364030 L'Aigle Creek Tributary near Hermitage	Lat 33°24'30", long 92°12'30", in SE1/4NW1/4 sec.14, T.15 S., R.11 W., Bradley County, Hydrologic Unit 08040204, at culvert on State Highway 15, 3.3 mi southwest of Hermitage. Prior to 1975 published as Eagle Creek Tributary near Hermitage. Drainage area is 0.36 mi^2.	1963-01	2-16-01	4.66	104	4-14-91	i7.06	260
07364110 Nevins Creek Tributary near Pine Bluff	Lat 34°10'08", long 92°05'12", in NW1/4SE1/4 sec.26, T.6 S., R.10 W., Jefferson County, Hydrologic Unit 08040205, at culvert on U.S. Highway 79, 6.0 mi southwest of Pine Bluff. Prior to 1962 published as Bayou Bartholomew Tributary near Pine Bluff. Drainage area is 0.75 mi^2.	1961-01	2-16-01	5.28	114	9-24-84	10.58	600

Maximum discharge at crest-stage partial-record stations--Continued

Station number and name	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
RED RIVER BASIN--continued								
07364114 Pitts Drain at Louisiana Street in Pine Bluff	Lat 34°12'29", long 91°59'48", in NW1/4NE1/4 sec.15, T.6 S., R.9 W., Jefferson County, Hydrologic Unit 08040205, at culvert on U.S. Highway 79, 6.0 mi southwest of Pine Bluff. Prior to 1962 published as Bayou Bartholomew Tributary near Pine Bluff. Drainage area is 0.75 mi^2.	1997-98[f] 1999-01	6-27-01	3.70	210	5-6-00	6.15	600
07364128 Deep Bayou near Grady	Lat 34°02'03", long 91°42'34", in NW1/4NW1/4 sec.16, T.8 S., R.6 W., Lincoln County, Hydrologic Unit 08040205, at bridge on State Highway 11, 2.7 mi south of Grady. Drainage area is 84 mi^2.	1989-01	2-16-01	15.42	1,550	7-18-89	18.1	2,350
07364140 Ables Creek near Tyro	Lat 33°49'29", long 91°44'06", in NE1/4SE1/4 sec.20, T.10 S., R.6 W., Lincoln County, Hydrologic Unit 08040205, on left downstream bridge pier on State Highway 54, 1.3 mi southwest of Tyro. Drainage area is 36 mi^2.	1993-01	2-16-01	12.57	4,300	4-5-97	14.28	13,700
07364550 Caney Creek Tributary near El Dorado	Lat 33°11'22", long 92°36'28", in NE1/4NW1/4 sec.1, T.18 S., R.15 W.,Union County, Hydrologic Unit 08040202, at culvert on U.S. Highway 82, 3.5 mi southeast of El Dorado. Drainage area is 0.07 mi^2.	1961-01	2-16-01	7.61	62	6-8-74	12.40	978
07365800 Cornie Bayou near Three Creeks	Lat 33°02'21", long 92°56'15", in SW1/4NW1/4 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, 6.0 mi southwest of Three Creeks. Drainage area is 180 mi^2.	1956-87[f] 1990-01	2-16-01	13.53	16,800	6-8-74	17.50	65,000

[a] Not determined
[b] From floodmarks
[c] Revised
[d] Prior to December 20, 1989 at datum 2.00 ft higher
* Also a low-flow partial-record station
[f] Operated as a continuous-record gaging station
[g] Operated as a stage-only station
[h] Not previously published
[i] At site and datum then in use

Special Study and Miscellaneous Sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Discharge measurements made at special study and miscellaneous sites during water year 2001

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		ST. FRANCIS RIVER BASIN				
07047947 Second Creek near Palestine	L'Anguille River	Lat 35°02'20", long 90°54'40", in SW1/4SE1/4 sec.17, T.5 N., R.2 E., St. Francis County, Hydrologic Unit 08020205, at bridge on county road, 4.0 mi north of Palestine.	a	1986-00	5-2-01 6-28-01	0 2.00
		WHITE RIVER BASIN				
07047984 Middle Fork White River southeast of Fayetteville	White River	Lat 35°59'47", long 94°04'21", in SE1/4SE1/4 sec.5, T.15 N., R.29 W., Washington County, Hydrologic Unit 11010001, at ford on farm road 2.0 mi south or State Hwy 16 and 5.9 mi southeast of Fayetteville.	a	1997-00	11-9-00 7-5-01	185 7.82
07048550 West Fork White River east of Fayetteville	White River	Lat 36°03'00", long 94°04'42", in NW1/4 sec.20, T.16 N., R.30 W., Washington County, Hydrologic Unit 11010001, at bridge on Mally Wagon Road, 0.5 mi north of State Highway 16, and 4.3 mi east of Fayetteville.	a	1985-00	1-18-01 7-5-01 9-25-01	124 13.0 22.6
07049691 White River at Beaver Dam near Eureka Springs	White River	Lat 36°25'15", long 93°50'50", in NW1/4NW1/4 sec.10, T.20 N., R.27 W., Carroll County, Hydrologic Unit 11010001, at Beaver Dam, 6.0 mi west of Eureka Springs and at mile 609.0.	a		6-5-01	59.6 64.4 289 323 259 168 164 119 120 404 447 558 388 158 145
07050206 Kings River near Alabam	White River	Lat 36°11'20", long 93°38'58", in SW1/4SE1/4SW1/4 sec.28, T.18 N., R.25 W., Madison County, Hydrologic Unit 11010001, at bridge on county road, 3.6 mi northeast of Alabam.	a	1997-00	11-8-00 3-6-01 7-3-01	157 176 23.4
07050390 Osage Creek southwest of Berryville	Kings River	Lat 36°20'55", long 93°35'26", in SE1/4SW1/4 sec.36, T.20 N., R.25 W., Carroll County, Hydrologic Unit 11010001, at bridge on State Highway 221 at McKennon Ford, and 1.0 mi southwest of Berryville.	a	1988-90[c] 1997-00	5-2-01 9-17-01	25.1 3.58
07053450 White River below Table Rock Dam near Branson, Missouri	Arkansas River	Lat 36°35'40", long 93°18'33", in NW1/4 sec.22, T.22 N., R.22 W., Taney County, Missouri, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek and 6.1 mi southwest of Branson, Missouri.	a		6-6-01	142 166 169 155 176 276 287 436 480 631 687
07054501 White River at Bull Shoals Dam near Flippin	Arkansas River	Lat 36°21'56", long 92°34'29", in NW1/4 sec.21, T.20 N., R.15 W., Marion County, Hydrologic Unit 11010003, at dam on White River, 11.9 mi upstream from gaging station, 6.3 mi northwest of Flippin, 12.5 mi downstream from Little North Fork, and at mile 418.6.	a		6-7-01	163 164 192 205 359 359 621 636 926 781

Discharge measurements made at special study and miscellaneous sites during water year 2001

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WHITE RIVER BASIN—continued				
07060000 North Fork River at Norfork Dam near Norfork	White River	Lat 36°14'18", long 92°14'18", in SE1/4SW1/4 sec.2, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, at Norfork Dam, 3.9 mi northeast of Norfork, and at mile 4.8.	a		6-8-01	61.8 61.4 58.4 101 190 316 486
07069170 Warm Fork Spring River near Thayer, Missouri	Black River	Lat 36°30'10", long 92°31'31", in SE1/4SE1/4 sec.5, T.21 N., R.5 W., Oregon County, Mo., Hydrologic Unit 11010010 at bridge on county road, 0.6 mi east of U.S. Highway 63, 0.2 mi north of Missouri-Arkansas State line, and 1.1 mi southeast of Thayer, Mo.	a	1971-75 1983-00	2-21-01 6-26-01	101 15.7
07069266 Spring River near Hardy	Spring River	Lat 36°20'00", long 91°30'30", in SW1/4SW1/4 sec.34, T.20 N., R.5 W., Fulton County, Hydrologic Unit 11010010, at low-water bridge on county road, 1.8 mi upstream from South Fork Spring River, and 2.2 mi northwest of Hardy.	35	1974-88 2000	10-25-00 2-22-01 6-26-01	228 690 248
07069295 South Fork Spring River at Saddle	Spring River	Lat 36°21'00", long 92°38'00", in NW1/4NW1/4 sec.33, T.20 N., R.6 W., Fulton County, Hydrologic Unit 11010010, at bridge on State Highway 289, 0.2 mi southeast of Saddle.	a	1974-00	2-16-01 6-26-01	2,590 9.16
07072875 Strawberry River at Wiseman	Black River	Lat 36°14'01", long 91°49'00", in NW1/4 sec.11, T.18 N., R.8 W., Izard County, Hydrologic Unit 11010012, on side road south of Hwy 354, 2.8 mi west of intersecton of Hwys 354 and 289.	a		2-16-01 4-13-01 8-4-01	1,710 10.2 .44
07072880 Little Strawberry River near Wiseman	Strawberry River	Lat 36°14'02", long 91°47'25", in NE1/4 sec.12, T.18 N., R.8 W., Izard County, Hydrologic Unit 11010012, on Hwy 354 1.3 mi west of interesection of Hwys 354 and 289.	a		2-16-01 4-13-01 8-14-01	968 3.39 e.2
07072908 Strawberry River near Myron	Black River	Lat 36°09'39", long 91°42'25", in NE1/4 sec.2, T.17 N., R.7 W., Izard County, Hydrologic Unit 11010012, on county road 1.7 mi south of Myron.	a		2-16-01 4-13-01 8-14-01	4,080 27.8 6.17
07073000 Strawberry River near Evening Shade	Black River	Lat 36°05'56", long 91°36'30", in NE1/4 sec.27, T.17 N., R.6 W., Sharp County, Hydrologic Unit 11010012, on Hwy 167, 1.7 mi north of Evening Shade.	a		4-13-01 8-14-01	56.1 11
07073500 Piney Fork at Evening Shade	Strawberry River	Lat 36°04'50", long 91°36'39", in NE1/4 sec.34, T.17 N., R.6 W., Sharp County, Hydrologic Unit 11010012, on Hwy 167 .8 mi north of Evening Shade.	a		4-13-01 8-14-01	29.1 1.49
07073995 North Big Creek near Evening Shade	Strawberry River	Lat 36°08'17", long 91°30'12", in NE1/4 sec.10, T.17 N., R.5 W., Sharp County, Hydrologic Unit 11010012, on Hwy 354, 3.4 mi west of intersection of Hwys 354 and 58.	a		2-16-01 4-12-01 8-13-01	1,340 28.9 23.5
07074050 Mill Creek south of Sitka	Strawberry River	Lat 36°07'13", long 91°24'12", in SE1/4 sec.16, T.17 N., R.4 W., Sharp County, Hydrologic Unit 11010012, 2.5 mi east of Hwy 58, 4.2 mi northeast of Poughkeepsie, and 4.5 mi south of Sitka on Strawberry Road.	a		2-17-01 4-12-01 8-13-01	156 12 1.54
07074100 Strawberry River near Smithville	Black River	Lat 36°01'40", long 91°19'31", in SE1/4 sec.17, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, on Hwy 115, 1 mi northwest of intersection of Hwys 117 and 115.	a		2-17-01 4-12-01 8-13-01	9,860 225 144
07074248 South Big Creek near Strawberry	Strawberry River	Lat 36°01'12", long 91°20'09", in NE1/4 sec.19, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, on Hwy 117, 4.0 mi northwest of intersection of Hwys 230 and 25.	a		2-22-01 4-12-01 8-13-01	154 51.4 23.6
07074250 Reeds Creek near Strawberry	Strawberry River	Lat 35°58'58", long 91°20'12", in SW1/4 sec.32, T.16 N., R.3 W., Lawrence County, Hydrologic Unit 11010012, on Hwy 117, 1.4 mi north of intersection of Hwys 230 and 25.	a		2-22-01 4-12-01 8-13-01	74.1 27.6 16.7

Discharge measurements made at special study and miscellaneous sites during water year 2001

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
WHITE RIVER BASIN--CONTINUED						
07074325 Strawberry River near Saffell	Black River	Lat 35°55'06", long 91°14'52", in NW1/4 sec.30, T.15 N., R.2 W., Lawrence County, Hydrologic Unit 11010012, on Hwy 361, 2. 4 mi north of intersection of Hwys 361 and 25.	a		2-17-01 4-12-01 8-13-01	13,100 330 203
07076000 Little Red River near Heber Springs	White River	Lat 35°31'02", long 91°59'50", in NE1/4 sec.7, T.10 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, on right bank 1,600 ft downstream from Greers Ferry Dam, 3.0 mi northeast of Heber Springs, and at mile 78.8.	1,153		6-8-01 6-8-01 6-8-01 6-8-01 6-9-01 6-9-01 6-9-01	79.4 74.3 59.6 57.1 152 321 558
07076950 Wattensaw Bayou near Hazen	White River	Lat 34°52'34", long 92°33'56", in SE1/4SE1/4 sec.18, T.3 N., R.5 W., Prairie County, Hydrologic Unit 08020301, at bridge on State Highway 11, 7.0 mi north of Hazen.	a	1984-00	11-14-00 3-13-01 6-28-01	32.6 1,020 163
07077660 Bayou DeView near Gibson	Cache River	Lat 35°47'36", long 90°50'18", in SW1/4SW1/4 sec.36, T.14 N., R.2 E., Craighead County, Hydrologic Unit 08020302, at bridge on State Highway 226, 1.8 mi northwest of Gibson.	a	1974-88 1995-96 1998-00	11-22-00 3-21-01 6-25-01	[e]5.0 57.2 [e].01
07195400 Illinois River near Siloam Springs	Arkansas River	Lat 36°08'41", long 94°29'41", in SW1/4SW1/4 sec.15, T.17 N., R.33 W., Benton County, Hydrologic Unit 11110103, at bridge on State Highway 16, 4.6 mi southeast of Siloam Springs.	509	1979-81[f] 1982-85 1986[f] 1987-00	10-5-00 2-5-01 6-13-01	144 526 180
ARKANSAS RIVER BASIN						
07246940 Poteau River at Waldron	Arkansas River	Lat 34°53'46", long 94°03'57", in SW1/4SE1/4 sec.22, T.3 N., R.29 W., Scott County, Hydrologic Unit 11110105, at bridge on State Highway 80, in Waldron.	a	1986-00	10-24-00 2-20-01 6-5-01 7-31-01	0.02 37.8 2.01 0
07260620 Chickalah Creek near Chickalah	Petit Jean River	Lat 35°09'36", long 93°17'34", in SW1/4 sec.24, T.6 N., R.22 W., Yell County, Hydrologic Unit 11110204, at bridge on State Highway 27, 0.5 mi upstream from Little Chickalah Creek and 1.0 mi southwest of Chickalah.	a	1964-67[c] 1986-00	10-26-00 4-5-01 8-3-01	0 30.4 0
07261070 Cove Creek near Damascus	Cadron Creek	Lat 35°21'45", long 92°27'35", in SE1/4NW1/4 sec.2, T.8 N., R.14 W., Faulkner County, Hydrologic Unit 11110205, at county road 4.6 mi west of Damascus..	a		7-13-98 10-6-98 1-22-99 9-14-99 12-12-99	[e]0.5 [e].40 272 0 1,250
RED RIVER BASIN						
07338720 Mountain Fork near Hatfield	Little River	Lat 34°30'18", long 94°25'50", in NE1/4NE1/4 sec.3, T.6 S., R.5 W., Polk County, Hydrologic Unit 11140108 at bridge on State Highway 246, 3.1 mi northwest of Hatfield.	168	1962-67[c] 1971-73 1986-00	10-24-00 2-20-01 6-5-01	2.61 594 60.5
07339780 Rolling Fork near West Otis	Little River	Lat 33°58'32", long 94°26'03", in SW1/4NW1/4 sec.20, T.9 S., R.32 W., Sevier County, Hydrologic Unit 11140109, on right bank downstream from bridge on county road, 1.5 mi north of West Otis.	290	1962 1982-83 1999-00	11-29-00 3-13-01 7-10-01	2,240 1,040 48.8
07344300[g] Days Creek southeast of Texarkana	Sulphur River	Lat 33°19'06", long 94°00'16", in NE1/4SE1/4 sec.33, T.16 S., R.28 W., Miller County, Hydrologic Unit 11140302, at bridge on State Highway 237, 7.0 mi south of Texarkana.	78.5	1973-00	3-12-01 7-11-01 8-27-01	2,220 12.7 19.6
07349440 Bodcau Creek near Lewisville	Red Chute Bayou	Lat 33°15'42", long 93°33'05", in SE1/4 sec.14, T.17 S., R.24 W., Lafayette County, Hydrologic Unit 11140205, at bridge on State Highway 313, 6.7 mi southeast of Lewisville.	292	1974-85 1987-90 1995, 98	11-27-00 3-12-01	1,210 1,740
07359770 Caddo River near Amity	Ouachita River	Lat 34°17'05", long 93°24'56", in NW1/4SE1/4 sec.24, T.5 S., R.23 W., Clark County, Hydrologic Unit 08040102, at bridge on State Highway 84, 2.9 mi northeast of Amity.	292	1987-00	1-22-01 5-9-01 8-29-01	839 264 33.6

Discharge measurements made at special study and miscellaneous sites during water year 2001

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		RED RIVER BASIN--continued				
07362550 Moro Creek near Banks	Ouachita River	Lat 33°32'38", long 92°19'00", in sec.35, T.13 S., R.12 W., Bradley-Calhoun County, Hydrologic Unit 08040201, at bridge on State Highway 4, 4.0 mi west of Banks.	385	1958-63[c] 1974-00	11-16-00 3-2-01 6-21-01	19.5 2,630 31.5
07363270 Hurricane Creek near Sardis	Saline River	Lat 34°30'40", long 92°24'54", in SW1/4 sec.28, T.2 S., R.13 W., Saline County line, Hydrologic Unit 08040203, at crossing on county road, 200 ft downstream from Brushy Creek, 1.5 mi southwest of Sardis.	66.0	1974-00	11-29-99 3-13-01 6-28-01	1.88 338 9.49
073641148 Bayou Bartholomew near Pinebergen	Ouachita River	Lat 34°06'19", long 91°57'51", in NE1/4NW1/4 sec.24, T.7 S., R.9 W., Jefferson County, Hydrologic Unit 08040205, on Pinebergen Road, about 9 mi south of Pine Bluff and 1.8 mi east of Pinebergen.	a		11-3-99 12-13-99 2-4-00 2-28-00 3-27-00 4-3-00 5-16-00 7-19-00 9-11-00	0 122 0 91.3 62.2 123 76.4 0 0
07364115 Bayou Bartholomew near Ladd	Ouachita River	Lat 34°06'24", long 92°54'06", in NW1/4 sec.22, T.7 S., R.8 W., Jefferson County, Hydrologic Unit 08040205, at bridge on county road, 2.2 mi south of Ladd.	a	1968 1974-00	1-13-01 2-27-01 6-18-01	22.8 216 5.3
073641175 Melton Creek near Tarry	Bayou Bartholo-mew	Lat 34°03'18", long 91°49'58", in T.8 S., R.7 W., Lincoln County, Hydrologic Unit 08040205, on gravel county road 1.5 mi south of Tarry, 0.7 mi west of Hwy 425, 8 mi north of Star City.	a		12-13-99 2-28-00 3-27-00 4-3-00 5-16-00 7-20-00	[e]0.5 .38 3.79 47.4 0 0
07364143 Ables Creek north of Selma	Bayou Bartholo-mew	Lat 33°44'10", long 91°33'40", in NE1/4NE1/4 sec.24, T.11 S., R.4 W., Drew County, Hydrologic Unit 08040205, at bridge on State Highway 138, 0.7 mi downstream from Prairie Creek and 2.7 mi north of Selma.	a	1998-00	11-14-00 2-28-01 6-19-01	7.22 831 .97
07364600 Bayou DeLoutre near El Dorado	Ouachita River	Lat 33°05'55", long 92°35'32", in SE1/4NW1/4 sec.6, T.19 S., R.14 W., Union County, Hydrologic Unit 08040201, at bridge on county road, 8.5 mi southeast of El Dorado.	78.4	1959-64 1971-75 1978-85 1987-00	2-28-01	6,430

[a]Not determined.
[b]Estimated.
[c]Operated as a low-flow partial-record station.
[d]Not previously published.
[e]Estimated
[f]Operated as a continuous-record station.
[g]Operated as a stage station by U.S. Army Corps of Engineers.

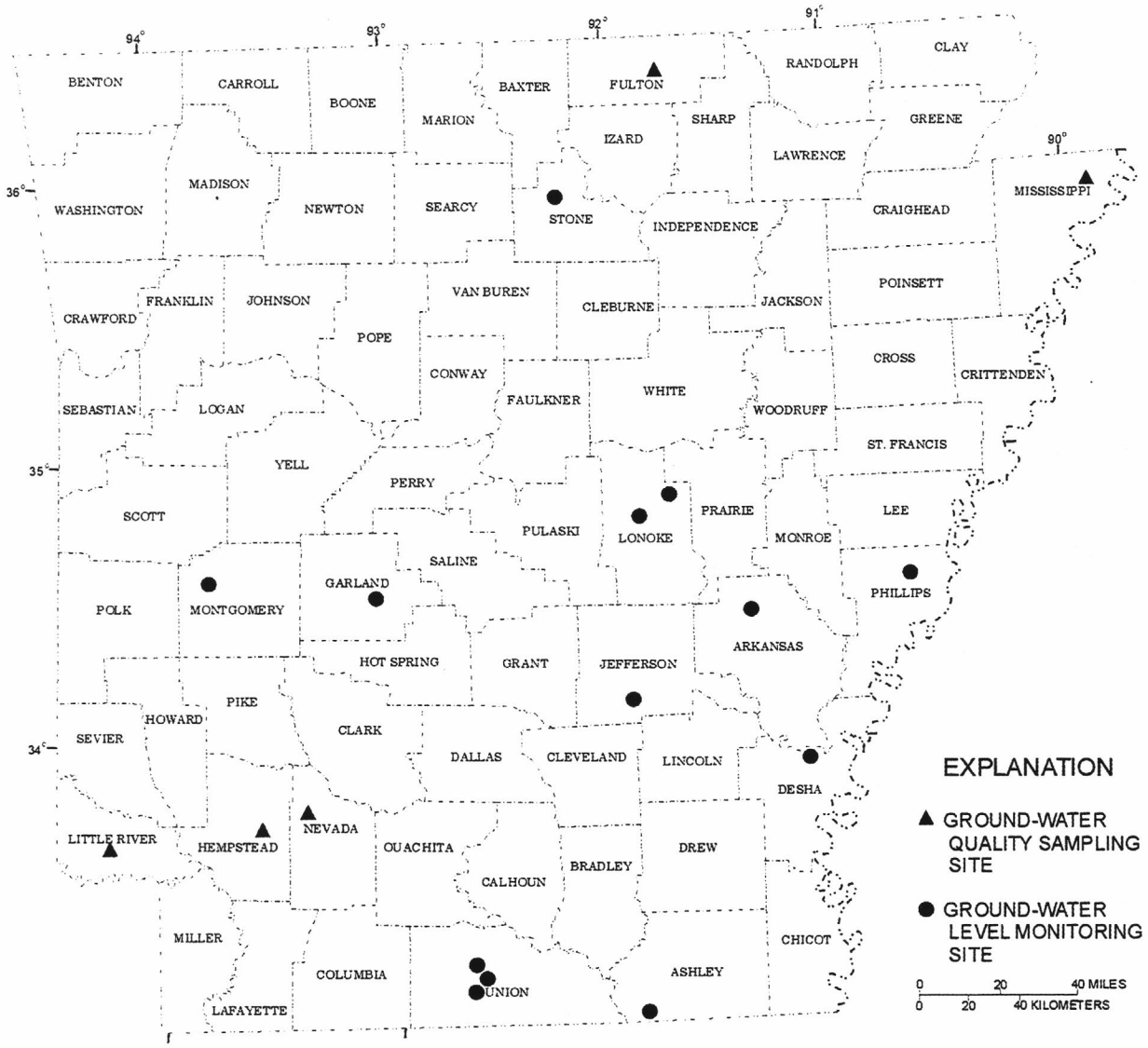


Figure 4. Locations of ground-water quality sampling sites and ground-water monitoring sites in Arkansas.

ARKANSAS COUNTY

342649091251916. Local number, 03S04W03DCA16

LOCATION.--Lat 34°27'53", long 91°25'15", Hydrologic Unit 08020303, near Stuttgart.

Owner: University of Arkansas Rice Experimental Station.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS--Drilled for observation well, diameter 26 in, depth 126 ft, screened 120-126 ft.

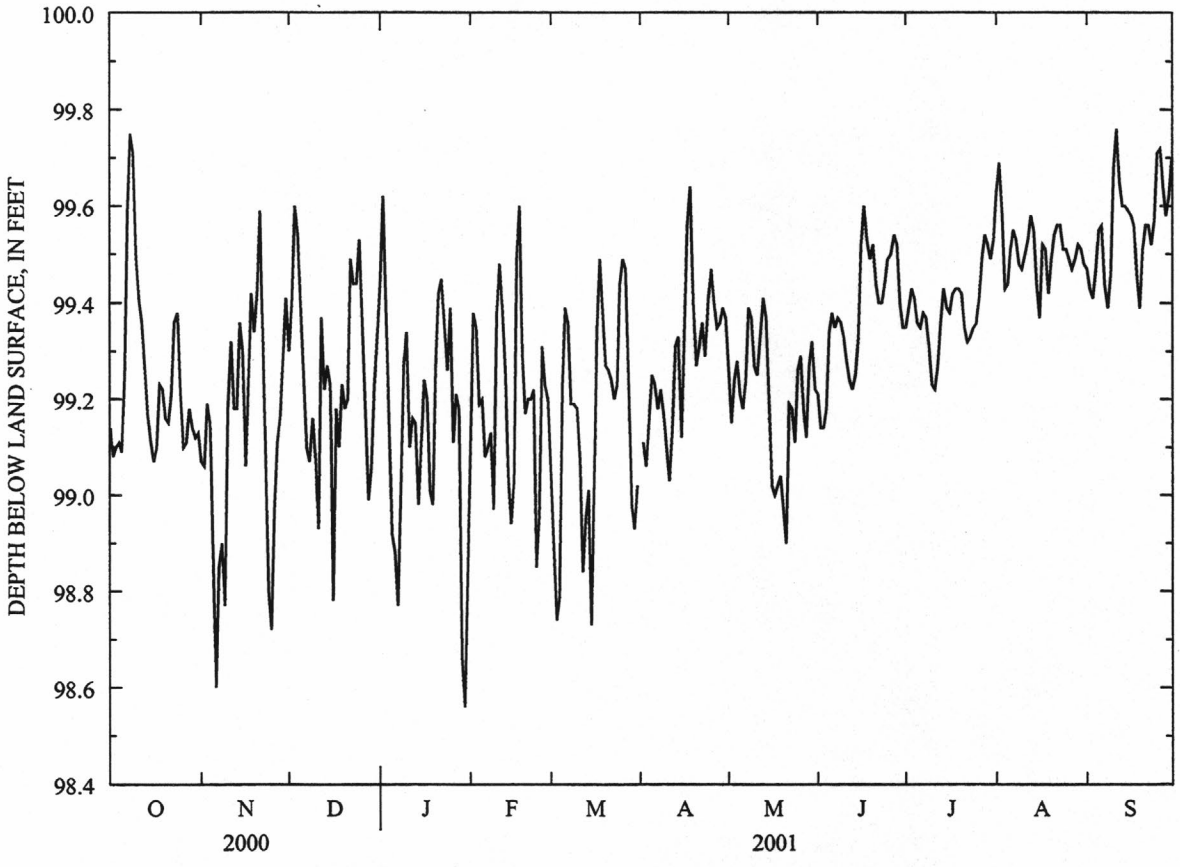
DATUM.--Land Surface 205 ft above sea level. Measuring point: Top of casing inside housing, 1.0 ft above land surface.

PERIOD OF RECORD.--5-day water levels June 1961 to July 1969. Annual water levels March 1968 to March 2000, and June to September 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 95.20 ft below land surface, January 10, 1963: lowest, 99.70 ft below land surface, September 10, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.09	98.95	99.40	98.92	99.20	99.23	99.25	99.21	99.34	99.36	99.44	99.55
10	99.50	99.18	99.07	99.34	99.38	99.18	99.10	99.27	99.33	99.23	99.47	99.68
15	99.11	99.30	99.23	99.13	98.94	98.73	99.12	99.20	99.33	99.39	99.44	99.59
20	99.16	99.42	99.18	99.27	99.17	99.27	99.27	98.97	99.52	99.42	99.49	99.51
25	99.21	98.72	99.53	99.39	98.96	99.44	99.47	99.26	99.49	99.36	99.51	99.71
EOM	99.13	99.41	99.34	98.86	99.20	99.02	99.37	99.22	99.35	99.53	99.48	99.70
MEAN	99.24	99.14	99.25	99.14	99.21	99.15	---	99.20	99.38	99.39	99.51	99.56
MAX	99.75	99.59	99.60	99.62	99.60	99.49	---	99.41	99.60	99.54	99.69	99.76
MIN	99.07	98.60	98.78	98.56	98.85	98.73	---	98.90	99.14	99.22	99.37	99.39



ASHLEY COUNTY

330624091552801. Local number, 18S08W28DDD2.

LOCATION.--Lat 33°06'24", long 91°55'28", Hydrologic Unit 08040205, near Crossett.

Owner: Georgia-Pacific Paper Co.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in, depth 155 ft, screened 142-152 ft.

DATUM.--Land surface, 163.26 ft above sea level. Measuring point: Top of casing, 3.27 ft above land surface.

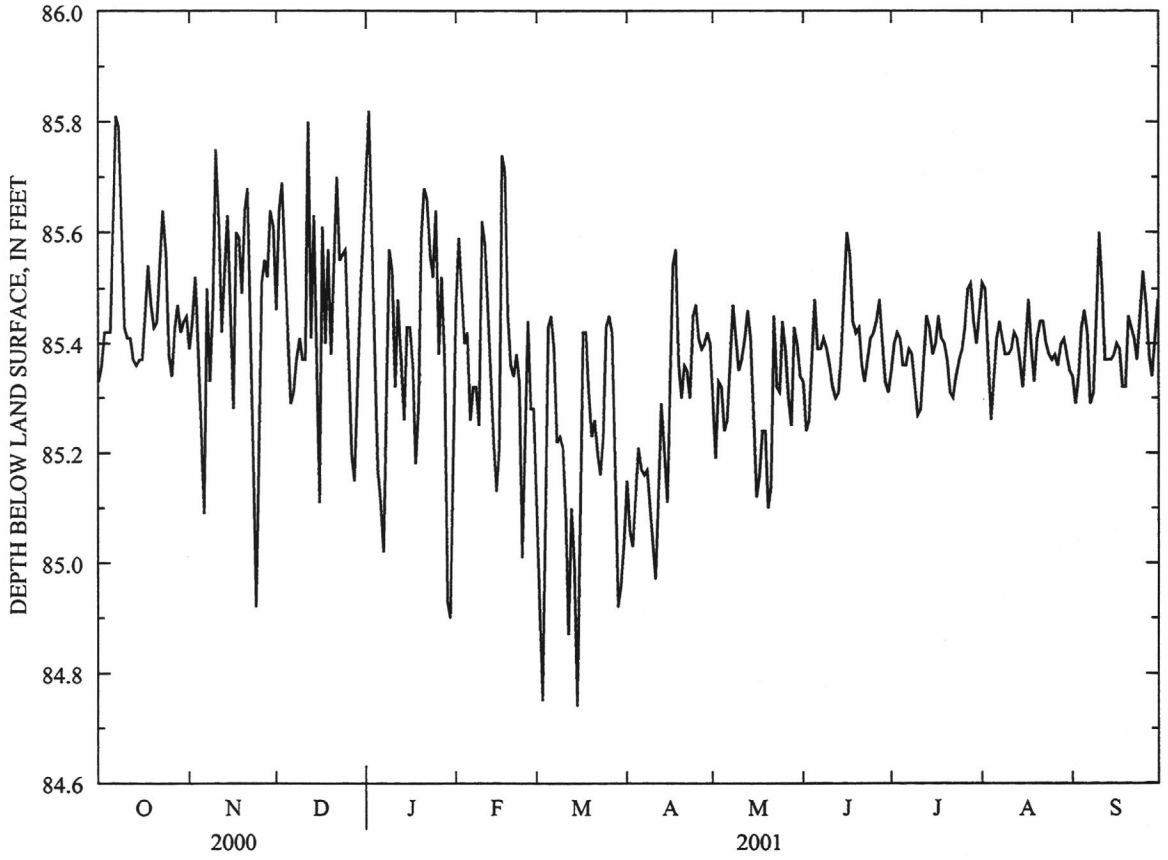
PERIOD OF RECORD.--Annual water levels June 1960 to August 1963, April 1971 to September 1994, October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.74 ft below land surface, Mar. 15, 1996; lowest, 93.28 ft below land surface, Aug. 22, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	85.42	85.25	85.42	85.17	85.42	85.43	85.21	85.24	85.48	85.36	85.33	85.46
10	85.43	85.75	85.37	85.53	85.62	85.21	85.04	85.35	85.36	85.27	85.38	85.60
15	85.37	85.45	85.36	85.43	85.13	84.74	85.11	85.26	85.49	85.38	85.32	85.38
20	85.43	85.64	85.38	85.59	85.36	85.23	85.30	85.10	85.43	85.37	85.41	85.45
25	85.38	85.27	85.57	85.64	85.28	85.43	85.47	85.44	85.42	85.39	85.37	85.53
EOM	85.45	85.61	85.56	85.26	85.28	85.04	85.40	85.34	85.31	85.45	85.35	85.48
MAX	85.81	85.75	85.80	85.82	85.74	85.45	85.57	85.47	85.60	85.51	85.51	85.60
MIN	85.33	84.92	85.11	84.90	85.01	84.74	84.97	85.10	85.24	85.27	85.26	85.29

CAL YR 2000 HIGH 84.92 NOV 24 LOW 86.04 JAN 14
WTR YR 2001 HIGH 84.74 MAR 15 LOW 85.82 JAN 2



DESHA COUNTY

335258091152301. Local number, 09S02W26DDC1.

LOCATION.--Lat 33°52'58", long 91°15'23", Hydrologic Unit 08050002, near Watson. Owner: Ed Smith.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 5-2 in, depth 97 ft, cased 0-94 ft, screened 94-97 ft.

DATUM.--Land surface, 149.27 ft above sea level. Measuring point: Top of casing, 1.71 ft above land surface.

REMARKS.--Water level fluctuates largely with stage of Arkansas River.

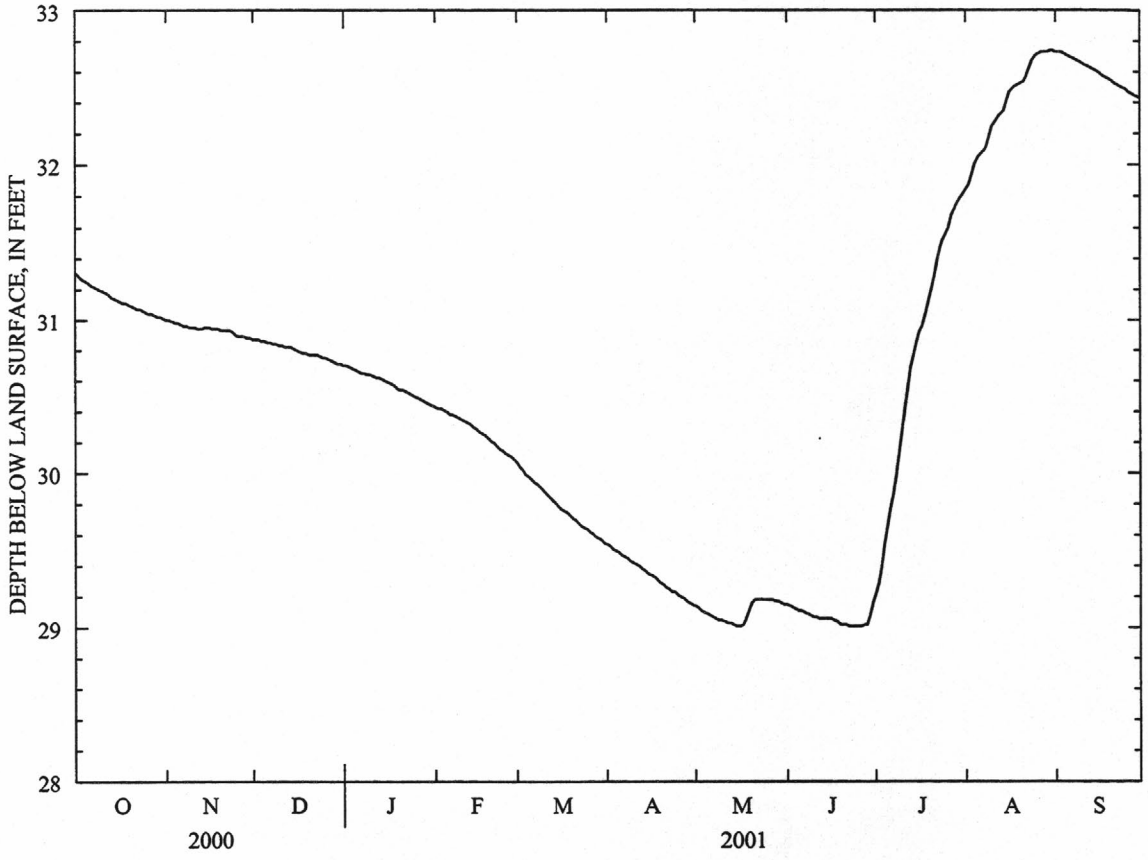
PERIOD OF RECORD.--Annual water levels October 1957 to September 1994, October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.94 ft below land surface, Feb. 17, 1959; lowest, 32.74 ft below land surface, Aug. 30, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.25	30.98	30.86	30.67	30.40	29.98	29.49	29.09	29.11	29.66	32.05	32.71
10	31.19	30.95	30.83	30.64	30.35	29.89	29.42	29.05	29.07	30.27	32.25	32.66
15	31.13	30.95	30.81	30.60	30.29	29.79	29.35	29.01	29.06	30.86	32.41	32.61
20	31.09	30.93	30.77	30.54	30.21	29.71	29.28	29.16	29.02	31.20	32.53	32.55
25	31.05	30.90	30.75	30.50	30.13	29.64	29.21	29.18	29.01	31.57	32.71	32.49
EOM	31.01	30.88	30.71	30.44	30.09	29.55	29.15	29.15	29.16	31.82	32.74	32.43
MEAN	31.14	30.94	30.80	30.58	30.28	29.79	29.34	29.11	29.07	30.75	32.39	32.59
MAX	31.31	31.00	30.87	30.70	30.43	30.07	29.54	29.18	29.16	31.82	32.74	32.73
MIN	31.01	30.88	30.71	30.44	30.09	29.55	29.15	29.01	29.01	29.22	31.85	32.43

CAL YR 2000 MEAN 29.55 HIGH 27.44 MAY 22 LOW 31.88 AUG 28
WTR YR 2001 MEAN 30.57 HIGH 29.01 MAY 15 LOW 32.74 AUG 30



FULTON COUNTY

362219091492101. Local number, 20N08W27AAB1.

LOCATION.--Lat 36°22'19", long 91°49'21", Hydrologic Unit 11010010, at Salem.

Owner: City of Salem

AQUIFER.--Gunter Sandstone of Ordovician age.

WELL CHARACTERISTICS.--Drilled public-supply well, depth 1,280 ft.

DATUM.--Land surface, 660 ft above sea level.

REMARKS.--Water-quality records for June 1969, April 1975, June 1982, July 1991, June 1996, and July 2001 are available in files of district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	PH WATER WHOLE FIELD (STANDARD UNITS) 00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
JUL 30...	1350	80020	80513	<5	761	7.6	444	16.7	240

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
JUL 30...	50.0	28.0	1.00	.0	1.2	1	240

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
JUL 30...	1.7	<.1	9.1	1.7	.19	142

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
JUL 30...	237	.010	<.20	.01	<.010	<.010

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
JUL 30...	12	20.0	<1.00	4	<.50	<1.0

FULTON COUNTY--continued

362219091492101. Local number, 20N08W27AAB1.--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JUL 30...	<1.00	<2.0	M	2.70	<1.0	<1.0

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUL 30...	<2.0	<1.0	<1.0	32	<1.0	2

Remark codes used in this report:
< -- Less than
Null value remark codes used in this report:
M -- Presence verified, not quantified

GARLAND COUNTY

343048093030401. Local number, 02S19W33CBD1.

LOCATION.--Lat 34°30'48", long 93°03'04", Hydrologic Unit 08040101, at Hot Springs.

Owner: Hot Springs Rehabilitation Center.

AQUIFER.--Hot Springs Sandstone of Mississippian age.

WELL CHARACTERISTICS.--Drilled unused well, depth 336.5 ft.

DATUM.--Land surface, 740 ft above sea level. Measuring point: Top of casing, 1.30 ft above land surface.

PERIOD OF RECORD.--Annual water levels February 1991 to September 1994, October 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.24 ft below land surface, Feb. 18, 2001; lowest, 117.21 ft below land surface, Feb. 20, 1991.

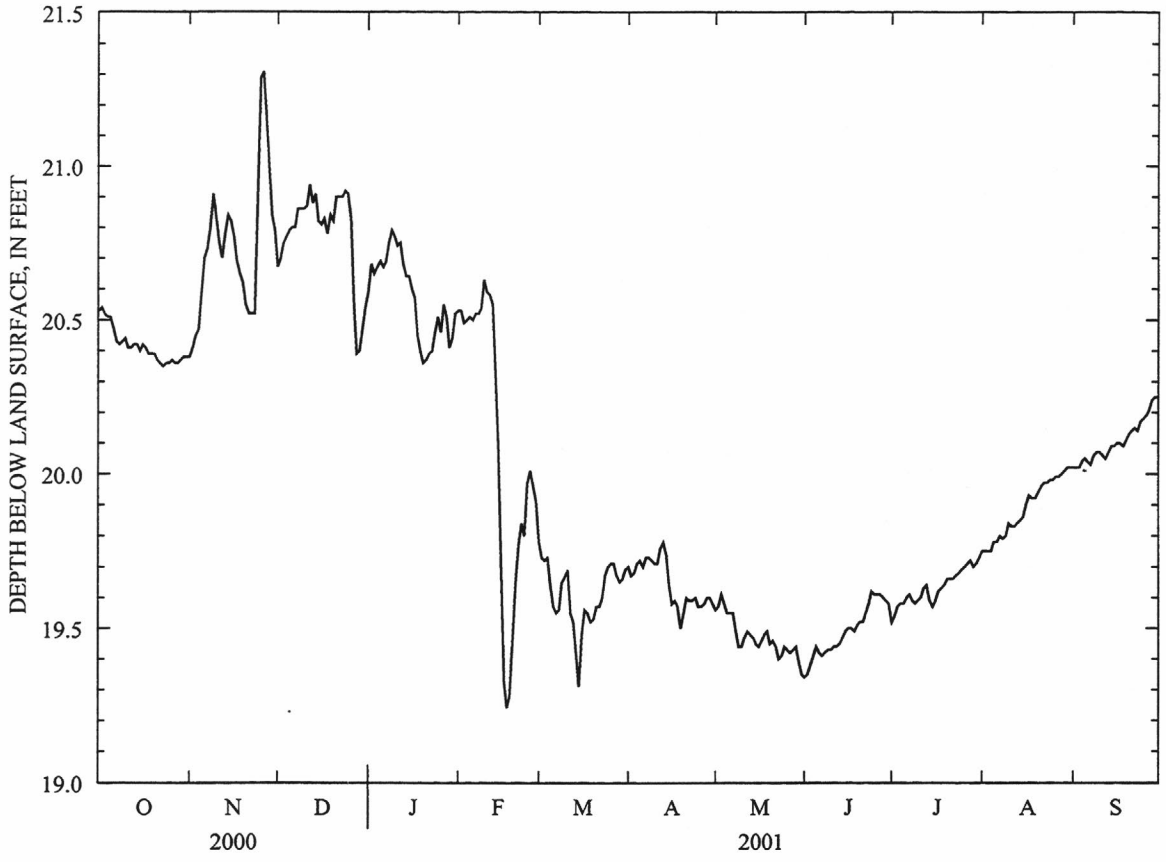
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.51	20.58	20.79	20.69	20.51	19.64	19.72	19.55	19.44	19.58	19.78	20.05
10	20.44	20.83	20.86	20.77	20.63	19.67	19.71	19.44	19.43	19.59	19.84	20.07
15	20.40	20.82	20.82	20.64	20.09	19.31	19.64	19.45	19.49	19.57	19.86	20.09
20	20.39	20.55	20.82	20.36	19.47	19.53	19.55	19.45	19.52	19.66	19.94	20.13
25	20.36	21.29	20.91	20.51	19.97	19.70	19.57	19.44	19.61	19.69	19.98	20.18
EOM	20.38	20.79	20.54	20.52	19.91	19.69	19.58	19.35	19.58	19.73	20.02	20.25
MAX	20.54	21.31	20.94	20.79	20.63	19.78	19.78	19.61	19.62	19.73	20.02	20.25
MIN	20.35	20.38	20.39	20.36	19.24	19.31	19.50	19.35	19.34	19.52	19.75	20.02

WTR YR 2001 HIGH 19.24 FEB 18 LOW 21.31 NOV 26

GARLAND COUNTY--continued

343048093030401. Local number, 02S19W33CBD1.--continued



HEMPSTEAD COUNTY

334338093390001. Local number, 12S25W11AAA1.

LOCATION.--Lat 33°43'38", long 93°39'00", Hydrologic Unit 11140201, at Hope (city well No. 10).
Owner: City of Hope.

AQUIFER.--Sand, Tokio Formation of Cretaceous age.

WELL CHARACTERISTICS.--Drilled public-supply well, diameter 24 in, depth1,170 ft.

DATUM.--Land surface, 369 ft above sea level.

REMARKS.--Water-quality records for July 2001 are available in files of district office.

PERIOD OF RECORD.--July 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	PH WATER WHOLE FIELD (STANDARD UNITS) 00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
JUL									
31...	1630	81213	80513	<5	770	8.7	747	31.5	2

HEMPSTEAD COUNTY--CONTINUED

334338093390001. Local number, 12S25W11AAA1.--continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
JUL 31...	.65	.120	.80	51	170	99	215

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
JUL 31...	67	.8	13.0	51.0	.60	441

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00607)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
JUL 31...	436	.280	.30	.36	<.010	.02	1.63	.530

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
JUL 31...	.8	<.5	<1.00	1600	<.50	<1.0

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JUL 31...	<1.00	<2.0	M	<2.00	16.0	<1.0

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUL 31...	<2.0	<1.00	<1.0	27.0	<1.0	<2

Remark codes used in this report:
< -- Less than
Null value remark codes used in this report:
M -- Presence verified, not quantified

JEFFERSON COUNTY

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 well, diameter 2 in, depth 1,106 ft, cased 0-1, 317 ft, 1,033-1,053 ft, 1,068-1,090 ft, screened 1,017-1,033 ft 1,053-1,068 ft, 1,090-1,106 ft.

DATUM.--Land surface, 202.42 ft above sea level. Measuring point: Top of casing, 2.00 ft above land surface.

PERIOD OF RECORD.--Annual water levels August 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.98 ft below land surface, Sept. 4, 1958; lowest, 275.20 ft below land surface, Nov. 30, 1999.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	259.10	JAN 01	260.00	MAR 06	259.10	APR 26	257.79	JUL 02	258.60
DEC 01	260.00	FEB 01	259.10	31	258.00	JUN 02	256.20	AUG 30	262.00

WATER YEAR 2001	HIGHEST	256.20	JUN 02, 2001	LOWEST	262.00	AUG 30, 2001
PERIOD OF RECORD	HIGHEST	108.98	SEP 04, 1958	LOWEST	275.20	NOV 30, 1999

LITTLE RIVER COUNTY

334202094084501. Local number, 12S30W19CCA1.

LOCATION.--Lat 33°42'02", long 94°08'45", Hydrologic Unit 11140109, at Ashdown (Mesamore well).

Owner: City of Ashdown.

AQUIFER.--Terrace Deposits of Quaternary age.

WELL CHARACTERISTICS.--Drilled public-supply well, diameter 16 in, depth 90 ft, cased 0-61, screened 61-90 ft.

DATUM.--Land surface, 327 ft above sea level.

REMARKS.--Water quality records for June 1996 and August 2001 are in files of district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	PH WATER WHOLE FIELD (STANDARD UNITS) 00400	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
AUG 01...	0845	81213	80513	<5	774	6.6	270	19.4	110

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
AUG 01...	32.0	6.30	.70	.5	13.0	21	100

LITTLE RIVER COUNTY--CONTINUED

334202094084501. Local number, 12S30W19CCA1.--continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
AUG 01...	12.0	.1	42.0	11.0	.25	184

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
AUG 01...	181	.030	<.20	.04	<.010	.675	.220

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
AUG 01...	49	160	<1.00	18	<.50	<1.0

DATE	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
AUG 01...	<1.00	<2.0	70	<2.00	16.0	35.0

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
AUG 01...	<2.0	<1.00	<1.0	140	<1.0	<2

Remark codes used in this report:
< -- Less than
Null value remark codes used in this report:
M -- Presence verified, not quantified

LONOKE COUNTY

345057091525601. Local number, 03N08W32BBA1

LOCATION.--Lat 34 50′ 57", long 91 52′ 56", Hydrologic Unit 08020402, near Wattensaw.
Owner: Lonoke, City of.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS--Drilled for observation well, diameter 4 in, depth 154 ft, screened 124-154 ft.

DATUM.--Land Surface 250 ft above sea level. Measuring point: Top of casing, 1.6 ft above land surface.

PERIOD OF RECORD.--June to September 2000.

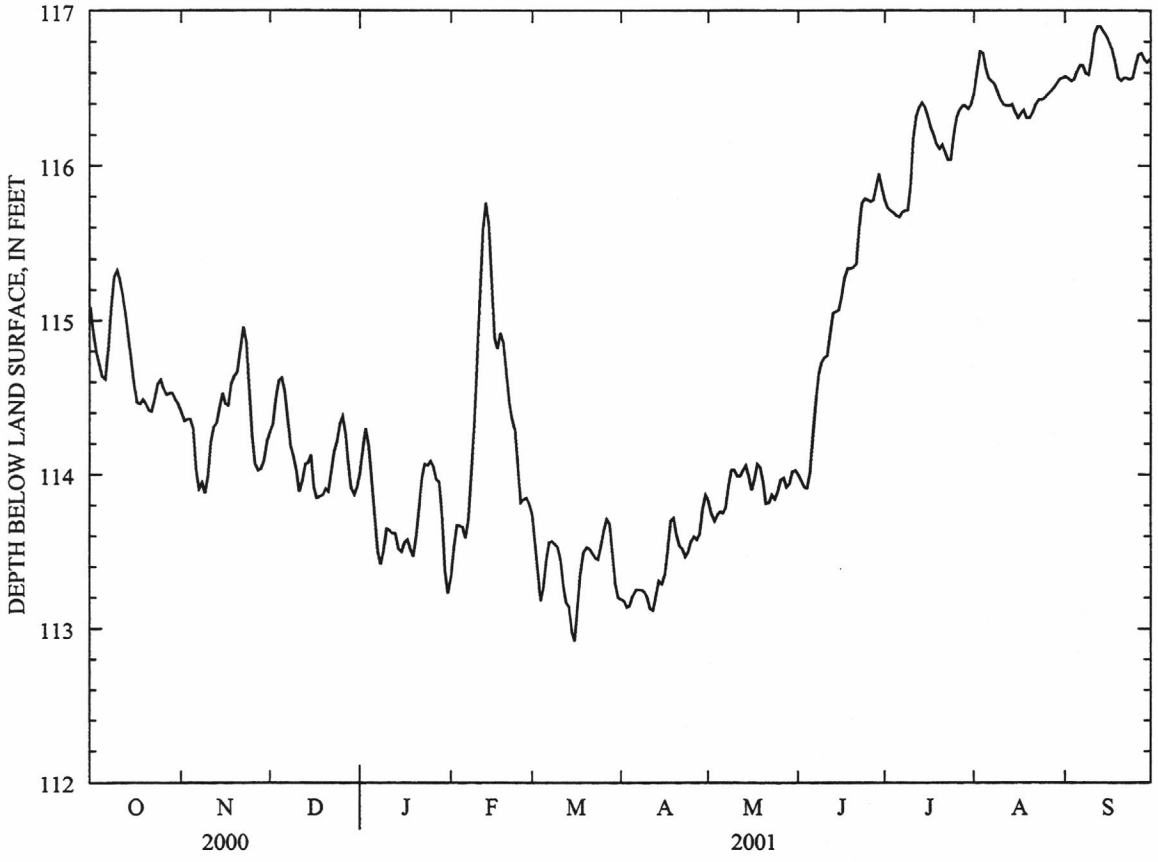
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 110.92 ft below land surface, June 20, 2000: lowest, 115.85 ft below land surface, August 25, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	114.64	114.30	114.63	113.94	113.66	113.27	113.21	113.76	114.01	115.68	116.63	116.61
10	115.33	113.99	114.03	113.65	114.76	113.53	113.20	114.03	114.76	115.87	116.43	116.70
15	114.72	114.53	114.13	113.50	115.27	112.99	113.29	113.99	115.07	116.38	116.35	116.84
20	114.46	114.67	113.91	113.60	114.65	113.53	113.61	113.96	115.35	116.11	116.31	116.55
25	114.62	114.25	114.33	114.09	113.82	113.54	113.57	113.89	115.78	116.20	116.44	116.65
EOM	114.46	114.22	113.92	113.23	113.81	113.20	113.87	114.03	115.86	116.40	116.57	116.69
MEAN	114.72	114.34	114.13	113.75	114.37	113.41	113.40	113.92	115.05	116.09	116.47	116.67
MAX	115.33	114.96	114.63	114.30	115.76	113.74	113.87	114.07	115.95	116.41	116.74	116.90
MIN	114.41	113.88	113.85	113.23	113.34	112.92	113.12	113.70	113.91	115.67	116.31	116.55

WTR YR 2001 MEAN 114.69 HIGH 112.92 MAR 16 LOW 116.90 SEP 12



LONOKE COUNTY--CONTINUED

345413091493401. Local number, 03N08W11ACA1

LOCATION.--Lat 34°54′ 13", long 91°49′ 34", Hydrologic Unit 08020301, near Wattensaw.

Owner: Cabot, City of.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS--Drilled for observation well, diameter 4 in, depth 144 ft, screened 123-143 ft.

DATUM.--Land Surface 256 ft above sea level. Measuring point: Top of casing, 0.53 ft above land surface.

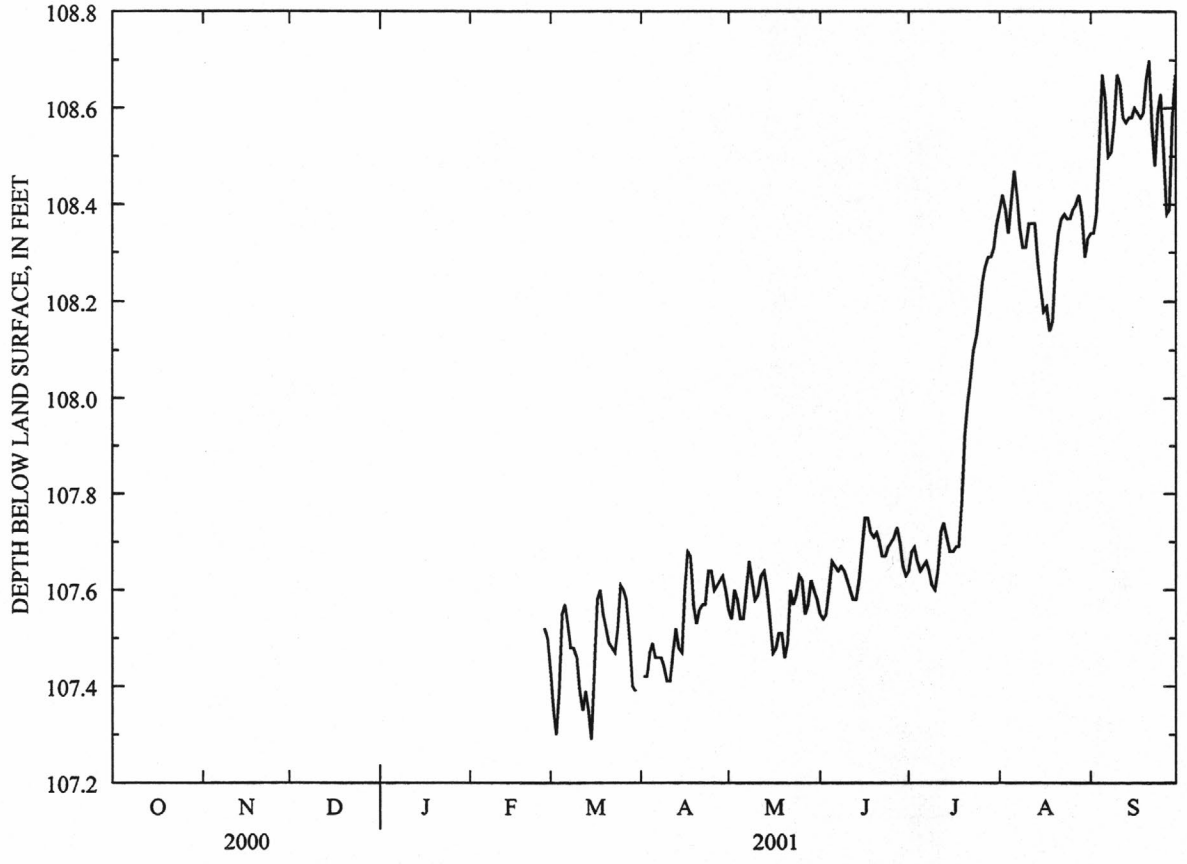
PERIOD OF RECORD.--January, 1999 to present year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 89.78 ft below land surface, January 11, 1999: lowest, 91.66 ft below land surface, September 26, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	107.55	107.49	107.54	107.66	107.64	108.41	108.67
10	---	---	---	---	---	107.46	107.41	107.58	107.62	107.60	108.31	108.67
15	---	---	---	---	---	107.29	107.47	107.53	107.69	107.68	108.23	108.58
20	---	---	---	---	---	107.52	107.53	107.46	107.72	107.92	108.28	108.66
25	---	---	---	---	---	107.61	107.64	107.63	107.70	108.18	108.37	108.63
EOM	---	---	---	---	107.50	---	107.60	107.58	107.63	108.36	108.33	108.67
MEAN	---	---	---	---	---	---	---	107.57	107.66	107.87	108.34	108.55
MAX	---	---	---	---	---	---	---	107.66	107.75	108.36	108.47	108.70
MIN	---	---	---	---	---	---	---	107.46	107.54	107.60	108.14	108.34



MISSISSIPPI COUNTY

355323089552101. Local number, 15N11E28CAC1.

LOCATION.--Lat 35°53'23", long 89°55'21", Hydrologic Unit 08010100, at Dogwood.

Owner: Dogwood Community Water Association, Inc.

AQUIFER.--Sand, Wilcox Group of Ecocene age.

WELL CHARACTERISTICS.--Drilled public-supply well, diameter 8 in, depth 1,400 ft, cased 0-1,337, screened 1,337-1,400 ft.

DATUM.--Land surface, 250 ft above sea level. Measuring point: Remove pressure gage, 2.00 ft above land surface.

REMARKS.--Water quality records for June 1956, June 1970, April 1975, June 1982, July 1987, July 1992, August 1996, and July 2001 are available in files of district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	PH WATER WHOLE FIELD (STANDARD UNITS) 00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
JUL 31...	0800	81213	80513	<5	775	6.8	205	23.5	27

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
JUL 31...	7.10	2.10	3.50	3	30.0	68	95

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
JUL 31...	1.2	.1	10.0	9.9	.16	121

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
JUL 31...	125	.230	.20	.30	<.010	<.010

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
JUL 31...	29	90	<1.00	60	<.50	<1.0

MISSISSIPPI COUNTY--CONTINUED

355323089552101. Local number, 15N11E28CAC1.--continued

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
JUL 31...	<1.00	<2.0	2980	<2.00	26.0	113

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUL 31...	<2.0	<1.00	<1.0	300	<1.0	<2

Remark codes used in this report:
< -- Less than
Null value remark codes used in this report:
M -- Presence verified, not quantified

MONTGOMERY COUNTY

343726093481801. Local number, 01S26W29DCC1.

LOCATION.--Lat 34°37'26", long 93°48'18", Hydrologic Unit 08040101, near Oden.

Owner: U.S. Forest Service.

AQUIFER.--Stanley Shale of Devonian age.

WELL CHARACTERISTICS.--Drilled well, diameter 7 in, depth 208 ft, cased 0-84 ft.

DATUM.--Land surface, 895 ft above sea level. Measuring point: Top of casing, 2.6 ft below land surface.

PERIOD OF RECORD.--Annual water levels January 1998 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.38 ft below land surface, Feb. 23, 2001; lowest, 54.00 ft below land surface, Aug. 27, 1937.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	50.57	NOV 20	37.90	FEB 23	31.38	MAY 22	46.57	JUL 24	51.39	SEP 25	49.54
NOV 14	40.41	DEC 21	36.90	MAR 26	36.79	25	46.75	AUG 21	52.09		

WATER YEAR 2001	HIGHEST	31.38 FEB 23, 2001	LOWEST	52.09	AUG 21, 2001
PERIOD OF RECORD	HIGHEST	31.38 FEB 23, 2001	LOWEST	54.00	AUG 27, 1937

NEVADA COUNTY

334806093221801. Local number, 11S22W09DBA1.

LOCATION.--Lat 33°48'06", long 93°22'18", Hydrologic Unit 08040103, at Prescott.

Owner: City of Prescott.

AQUIFER.--Nacatoch Sand.

WELL CHARACTERISTICS.--Drilled public-supply well.

DATUM.--300 ft above sea level. Measuring point: Top of casing, at land surface.

REMARKS.--Water quality records for July 1987 and July 2001 are available in files of district office.

NEVADA COUNTY--CONTINUED

334806093221801. Local number, 11S22W09DBA1.--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	PH WATER WHOLE FIELD (STANDARD UNITS) 00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
JUL 31...	1415	81213	80513	<5	773	7.6	450	23.3	110

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
JUL 31...	40.0	3.20	2.90	2	51.0	49	216

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
JUL 31...	12.0	<.1	44.0	6.7	.39	289

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
JUL 31...	291	.220	<.20	28	<.010	.337	.110

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2) (00405)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
JUL 31...	10	25.0	<1.00	76	<.50	<1.0

DATE	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
JUL 31...	<1.00	<2.0	20	<2.00	20.0	108

NEVADA COUNTY--CONTINUED

334806093221801. Local number, 11S22W09DBA1.--continued

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
JUL 31...	<2.0	<1.00	<1.0	440	<1.0	2

Remark codes used in this report:
< -- Less than
Null value remark codes used in this report:
M -- Presence verified, not quantified

PHILLIPS COUNTY

343108090462601. Local number, 02S03E15ACD1.

LOCATION.--Lat 34°31'08", long 90°46'26", Hydrologic Unit 08020304, near Barton.

Owner: Don R. Dearing.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in, depth 112 ft.

DATUM.--Land surface, 147 ft above sea level. Measuring point: Top of casing, at land surface.

PERIOD OF RECORD.--Annual water levels March 1955, January 1957 to September 1994, October 1996 to current year.

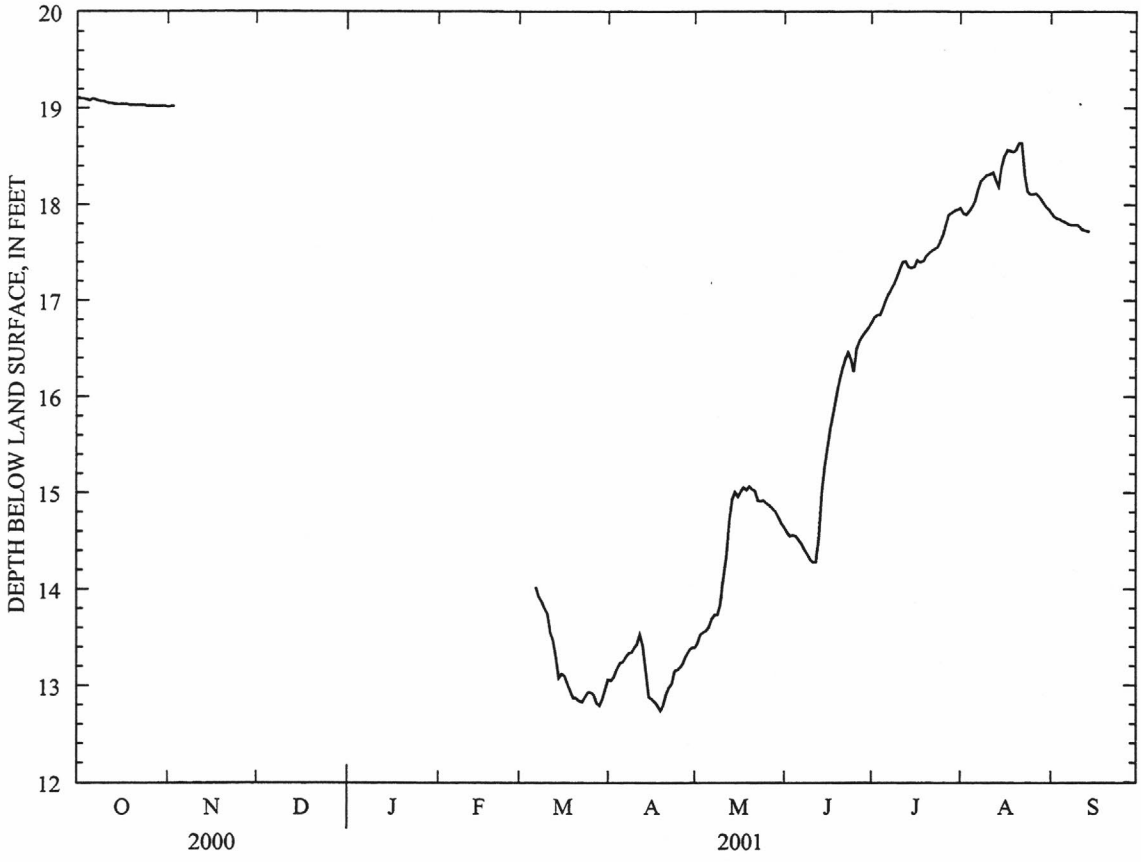
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.61 ft below land surface, Apr. 25, 1973; lowest, 20.81 ft below land surface, Aug. 22, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.08	---	---	---	---	---	13.23	13.57	14.55	16.92	17.99	17.83
10	19.07	---	---	---	---	13.80	13.39	13.84	14.31	17.25	18.31	17.79
15	19.04	---	---	---	---	13.08	12.88	15.01	15.28	17.34	18.39	---
20	19.03	---	---	---	---	12.87	12.80	15.07	16.17	17.46	18.57	---
25	19.02	---	---	---	---	12.93	13.16	14.92	16.26	17.62	18.11	---
EOM	19.02	---	---	---	---	12.96	13.39	14.68	16.72	17.95	17.96	---
MAX	19.11	---	---	---	---	---	13.53	15.07	16.72	17.95	18.64	---
MIN	19.02	---	---	---	---	---	12.74	13.39	14.28	16.77	17.90	---

PHILLIPS COUNTY--CONTINUED

343108090462601. Local number, 02S03E15ACD1.--continued



STONE COUNTY

355927092122401. Local number, 16N12W25DCB1.

LOCATION.--Lat 35°59'27", long 92°12'24", Hydrologic Unit 11010004, near Fifty-Six. Owner: U.S. Forest Service.

AQUIFER.--Boone Formation.

WELL CHARACTERISTICS.--Drilled well, diameter 6.5 in, depth 88 ft, cased 0-29 ft.

DATUM.--Land surface, 485 ft above sea level. Measuring point: Top of casing, 0.0 ft above land surface.

PERIOD OF RECORD.--Annual water levels March 1998 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.80 ft below land surface, Apr. 22, 1998; lowest, 69.84 ft below land surface, Mar. 14, 2000.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	67.37	NOV 14	67.80	MAR 01	65.33
WATER YEAR 2001	HIGHEST 65.33 MAR 01, 2001		LOWEST 67.80 NOV 14, 2000		
PERIOD OF RECORD	HIGHEST 60.80 APR 22, 1998		LOWEST 69.15 MAR 14, 2000		

UNION COUNTY

331041092431401. Local number, 18S16W11AAB1

LOCATION.--Lat 33°10'41", long 92°43'14", Hydrologic Unit 08040202, near El Dorado.
Owner: Great Lakes Chemical.

AQUIFER.--Sparta Sand of Eocene age.

WELL CHARACTERISTICS--Diameter 4 in, depth 520 ft.

DATUM.--Land Surface 225 ft above sea level. Measuring point: Top of casing, 0.89 ft above land surface.

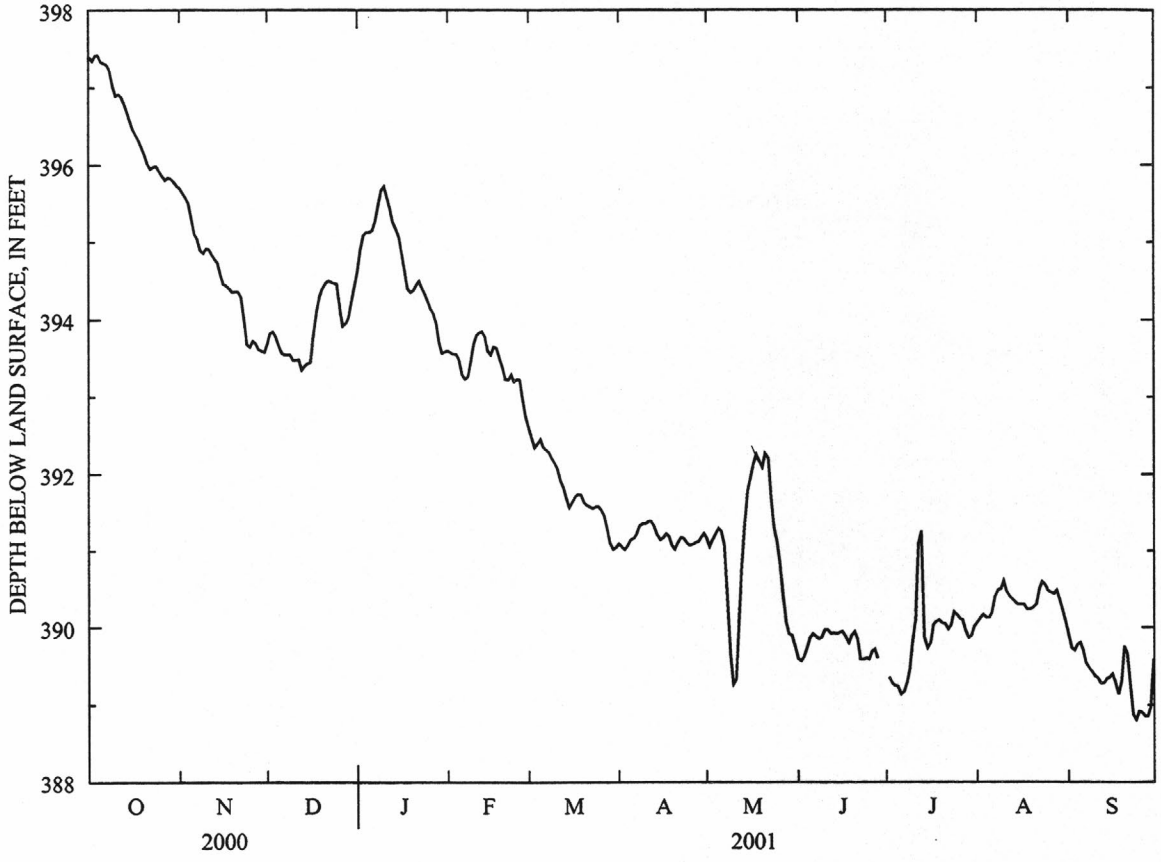
PERIOD OF RECORD.--Continuous water levels March to September 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 395.39 ft below land surface, June 29, 2000: lowest, 400.23 ft below land surface, September 7, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	397.34	395.30	393.67	395.13	393.48	392.46	391.15	391.30	389.87	389.24	390.13	389.81
10	396.90	394.92	393.48	395.73	393.68	392.15	391.36	389.27	389.97	389.84	390.61	389.38
15	396.57	394.58	393.44	395.07	393.60	391.57	391.15	391.78	389.94	389.74	390.30	389.36
20	396.14	394.36	394.40	394.38	393.39	391.64	391.02	392.09	389.95	390.06	390.26	389.76
25	395.92	393.65	394.46	394.24	393.24	391.58	391.08	391.13	389.59	390.17	390.48	388.92
EOM	395.74	393.58	394.42	393.59	392.76	391.05	391.24	389.75	---	390.02	390.08	389.59
TOTAL	12292.84	11836.65	12210.87	12236.35	11016.52	12146.48	11735.45	12121.17	---	---	12100.57	11680.71
MEAN	396.54	394.56	393.90	394.72	393.45	391.82	391.18	391.01	---	---	390.34	389.36
MAX	397.42	395.71	394.50	395.73	393.85	392.60	391.39	392.27	---	---	390.61	389.91
MIN	395.74	393.58	393.36	393.57	392.76	391.02	391.02	389.27	---	---	390.07	388.81



UNION COUNTY--CONTINUED

331144092410601. Local number, 17S15W31DDA1

LOCATION.--Lat 33°11'44", long 92°41'05", Hydrologic Unit 08040202, near El Dorado.

Owner: Lion Oil.

AQUIFER.--Sparta Sand of Eocene age.

WELL CHARACTERISTICS--Drilled for industrial production well, converted to observation, diameter 16 in, depth 740 ft, screened 650-730 ft.

DATUM.--Land Surface 261 ft above sea level. Measuring point: Top of casing, 0.0 ft above land surface.

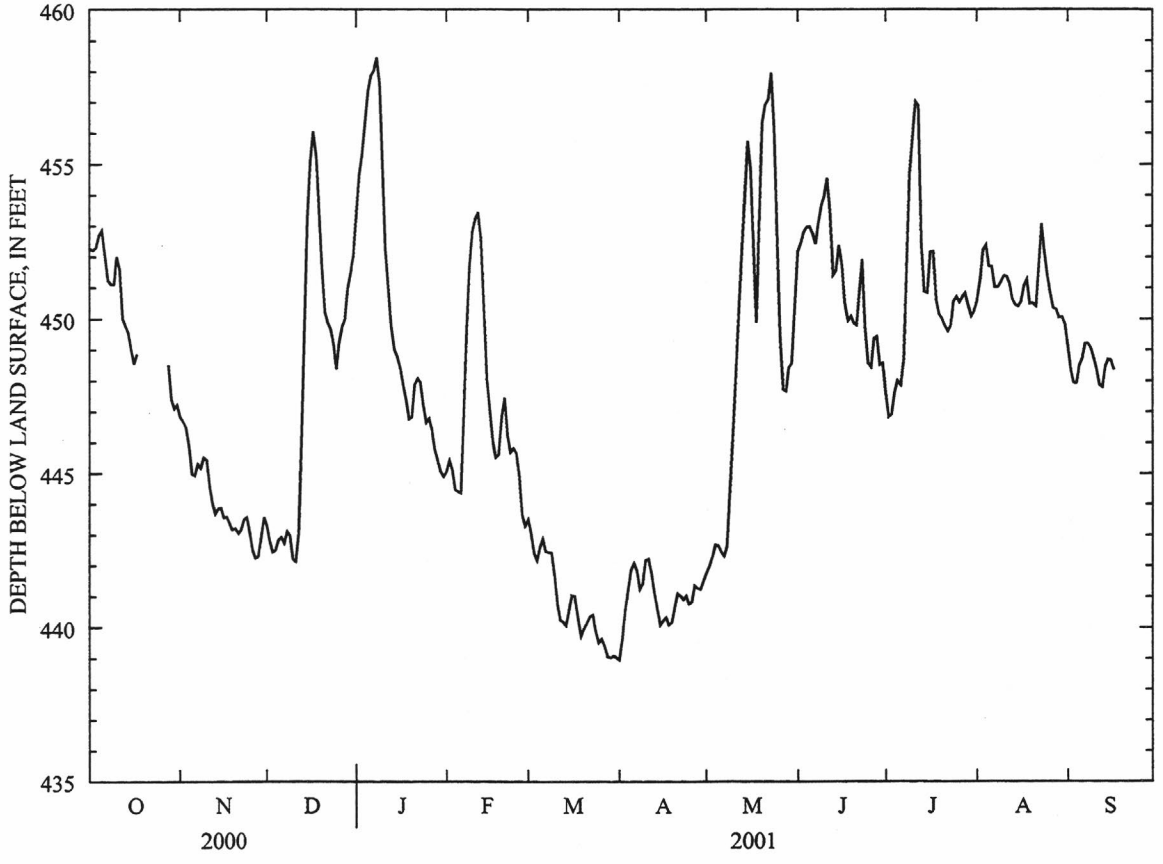
PERIOD OF RECORD.--Annual water levels April 1951, March 1952, March to September 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 329 ft below land surface, April 1, 1951: lowest, 467.12 ft below land surface, March 3, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	452.89	444.99	442.85	457.39	444.42	442.61	441.84	442.66	453.00	448.02	451.71	448.50
10	452.01	445.45	442.23	454.74	452.82	441.72	442.19	445.18	453.99	455.95	451.41	448.74
15	449.01	443.89	453.30	448.78	448.07	440.54	440.10	455.75	452.39	450.85	450.43	448.70
20	---	443.22	451.64	446.85	446.86	439.96	440.66	456.33	449.89	450.02	450.54	---
25	---	443.10	448.39	446.67	445.66	439.51	440.77	452.20	448.59	450.73	451.41	---
EOM	447.24	443.58	452.07	444.91	443.31	439.04	441.51	450.72	448.60	450.28	449.84	---
MEAN	---	444.15	447.92	450.45	447.18	440.82	440.98	449.10	451.35	450.73	451.07	---
MAX	---	446.85	456.05	458.46	453.46	443.53	442.23	457.96	454.57	457.04	453.10	---
MIN	---	442.25	442.14	444.91	443.31	439.03	438.96	441.76	448.45	446.83	449.84	---



UNION COUNTY--CONTINUED

331346092391101. Local number, 17S15W28DBA1

LOCATION.--Lat 33°12'46", long 92°39'10", Hydrologic Unit 08040201, near El Dorado.

Owner: El Dorado, City of.

AQUIFER.--Sparta Sand of Eocene age.

WELL CHARACTERISTICS--Drilled for public water supply well, converted to observation, diameter 16 in, depth 668 ft, screened 588-688 ft.

DATUM.--Land Surface 230 ft above sea level. Measuring point: Top of casing, 0.0 ft above land surface.

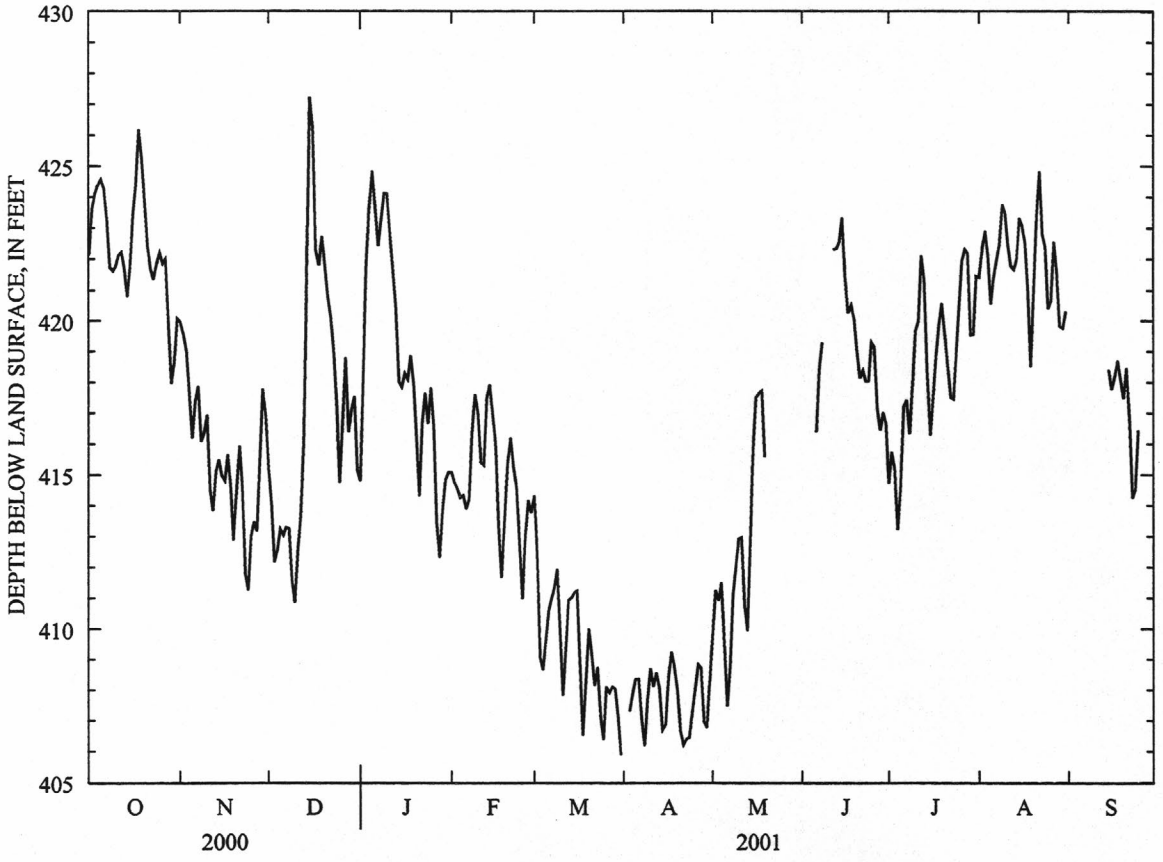
PERIOD OF RECORD.--Annual water levels April 1982 to March 1990, June 1993, and March 1999. Continuous water levels March to September 2000.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 363.27 ft below land surface, September 28, 2000: lowest, 427.22 ft below land surface, March 3, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	424.58	416.19	413.24	424.85	414.35	409.70	408.36	409.67	---	414.55	420.55	---
10	421.79	416.95	410.86	424.11	417.02	409.67	408.72	412.94	---	419.68	423.48	---
15	421.77	414.98	427.24	417.85	416.95	411.20	406.90	415.89	423.34	416.29	423.32	418.42
20	423.87	414.33	421.77	415.92	415.39	410.01	406.67	---	418.97	419.62	420.57	417.49
25	422.22	413.04	414.74	417.84	410.98	406.39	408.02	---	419.31	420.76	420.40	416.45
EOM	420.09	416.88	415.16	415.10	413.77	405.89	408.06	---	416.67	421.47	420.32	---
TOTAL	13093.83	12466.61	12929.90	12980.74	11615.40	12688.56	---	---	---	12977.18	13078.28	---
MEAN	422.38	415.55	417.09	418.73	414.84	409.31	---	---	---	418.62	421.88	---
MAX	426.20	419.98	427.24	424.85	417.94	414.33	---	---	---	422.34	424.85	---
MIN	417.97	411.27	410.86	412.33	410.98	405.89	---	---	---	413.22	418.50	---



UNION COUNTY--CONTINUED

331438092411901. Local number, 17S15W18DBB1.

LOCATION.--Lat 33°14'38", long 92°41'19", Hydrologic Unit 08040201, at El Dorado.Owner: Monsanto Chemical Company.

AQUIFER.--Sparta Sand of Eocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in, depth 540 ft, cased 0-520 ft, screened 520-540 ft.

DATUM.--Land surface, 182.93 ft above sea level. Measuring point: Top of casing, 2.00 ft above land surface.

PERIOD OF RECORD.--Annual water levels July 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 122.00 ft below land surface, 1942; lowest, 381.37 ft below land surface, Apr. 29, 1993.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	376.32	JAN 19	376.16	APR 17	360.82	JUN 19	377.62	SEP 20	377.63
NOV 19	360.68	FEB 22	375.63	21	378.07	JUL 20	377.50		
DEC 21	375.84	MAR 20	375.68	MAY 20	377.24	AUG 19	377.24		

WATER YEAR 2001	HIGHEST	360.82	APR 17, 2001	LOWEST	378.07 APR 21, 2001
PERIOD OF RECORD	HIGHEST	122.00	1942	LOWEST	381.37 APR 29, 1993

00040380 NATIONAL TRENDS NETWORK SITE NEAR CADDO VALLEY

PRECIPITATION QUALITY

LOCATION.--Lat 34°10'45", long 93°05'54", in NW1/4NW1/4 sec.36, T.6 S., R.20 W., Clark County, Hydrologic Unit 08040102, approximately 1.6 mi west of Caddo Valley.

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

INSTRUMENTATION.--An automatic wet-dry precipitation collector is used to collect 7-day accumulations. The collector is equipped with a precipitation sensor which activates a motor to operate the sample bucket cover. The sample bucket remains uncovered for the duration of each precipitation event and covered during dry periods. Dryfall samples are not collected. A standard 8.0-inch recording rain gage is used to obtain onsite precipitation records.

REMARKS.--Data for this site are verified by the National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) Coordinator. Additional data are available from the NADP/NTN Coordinator, NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, Illinois 61820. Data for all sites in the network are published quarterly by the NADP/NTN Coordinator's Office. Laboratory analyses were performed by the Central Analytical Laboratory of the Illinois State Water Survey.

Finalized quality assured data from all 200 NADP/NTN sites including the U.S. Geological Survey site near Caddo Valley, Arkansas, are available online via the internet at http:/ /btdqs.usgs.gov/acidrain. Paper copies of the data for Caddo Valley are available by contacting the Arkansas District Office, 401 Hardin Road, Little Rock, Arkansas 72211, (501) 228-3600.

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

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

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