ANNUAL YIELD AND SELECTED HYDROLOGIC DATA FOR THE ARKANSAS RIVER BASIN COMPACT, ARKANSAS-OKLAHOMA, 1995 WATER YEAR

by J.E. Porter

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CONVERSION FACTORS

Multiply	By	To obtain
inch (in.)	25.4	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
acre	4,047	square meter
	0.004047	square kilometer
square mile (mi^2)	2.590	square kilometer
cubic foot (ft^3)	0.02832	cubic meter
acre-foot (acre-ft)	1,233	cubic meter
	1.233×10^{-6}	cubic kilometer
cubic foot per second (ft^3/s)	28.32	liter per second
	0.02832	cubic meter per second
ton per day (ton/d)	0.9072	megagram per day

Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) as follows:

$$°F = 1.8 \times °C + 32$$

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ABSTRACT

The computed annual yield and deficiency of the subbasins as defined in the Arkansas River Basin Compact, Arkansas-Oklahoma, are given in tables for the 1995 water year. Actual runoff from the subbasins and depletion caused by major reservoirs in the compact area also are given in tabular form. Monthly mean discharges are shown for the 17 streamflow stations used in computing annual yield. Water-quality data are shown for 20 water-quality stations sampled in the Arkansas River Basin.

INTRODUCTION

In 1955, the Congress of the United States granted consent to Arkansas and Oklahoma to enter into a compact for the apportionment of the waters of the Arkansas River and its tributaries as they affect the two States. An Arkansas-Oklahoma Arkansas River Compact committee was created with a Federal Representative acting as chairman. After research and deliberate negotiations had been completed, both States approved the Arkansas River Basin Compact, Arkansas-Oklahoma, 1972. To meet the requirements of the Compact, Stateline yields of the Arkansas River Basin are determined at the end of each year.

This report was prepared by the U.S. Geological Survey in cooperation with the Arkansas River Compact Commission, Arkansas-Oklahoma. Streamflow data and water-quality data were collected by the U.S. Geological Survey in cooperation with the Arkansas Soil and Water Conservation Commission and the Oklahoma Water Resources Board. Additional Water-quality data were collected as part of the U.S. Geological Survey's National Water-Quality Assessment Program. The U.S. Army Corps of Engineers, Tulsa District furnished data from the Webbers Falls, Tenkiller Ferry, Robert S. Kerr, Wister, and Fort Gibson Lakes.

PURPOSE AND SCOPE

The purpose of this report is to present the annual yields and deficiencies computed for the 1995 water year for subbasins in the Arkansas River Basin as defined in the Arkansas River Basin Compact, Arkansas-Oklahoma, 1972. The report includes data from 17 streamflow stations and 20 water-quality stations sampled in the Arkansas River Basin during the 1995 water year. The area included in the Compact is shown on figure 1.

DEFINITION OF TERMS

The following terms used in this report are taken from Article II of the Arkansas River Basin Compact, Arkansas-Oklahoma, 1972.

The term "Arkansas River Basin" means all of the drainage basin of the Arkansas River and its tributaries from a point immediately downstream from the confluence of the Neosho River with the Arkansas River (fig. 1) to a point immediately downstream from the confluence of Lee Creek with the Arkansas River, together with the drainage basin of Spavinaw Creek in Arkansas (fig. 1), but excludes that part of the drainage basin of the Canadian River upstream from Lake Eufaula Dam.

The term "Spavinaw Creek Subbasin" means the drainage area of Spavinaw Creek in the State of Arkansas.

The term "Illinois River Subbasin" means the drainage area of the Illinois River in the State of Arkansas.

The term "Lee Creek Subbasin" means the drainage area of Lee Creek in the State of Arkansas and in the State of Oklahoma.

The term "Poteau River Subbasin" means the drainage area of the Poteau River in the State of Arkansas.

The term "Arkansas River Subbasin" means all areas of the Arkansas River Basin except the four subbasins described previously.

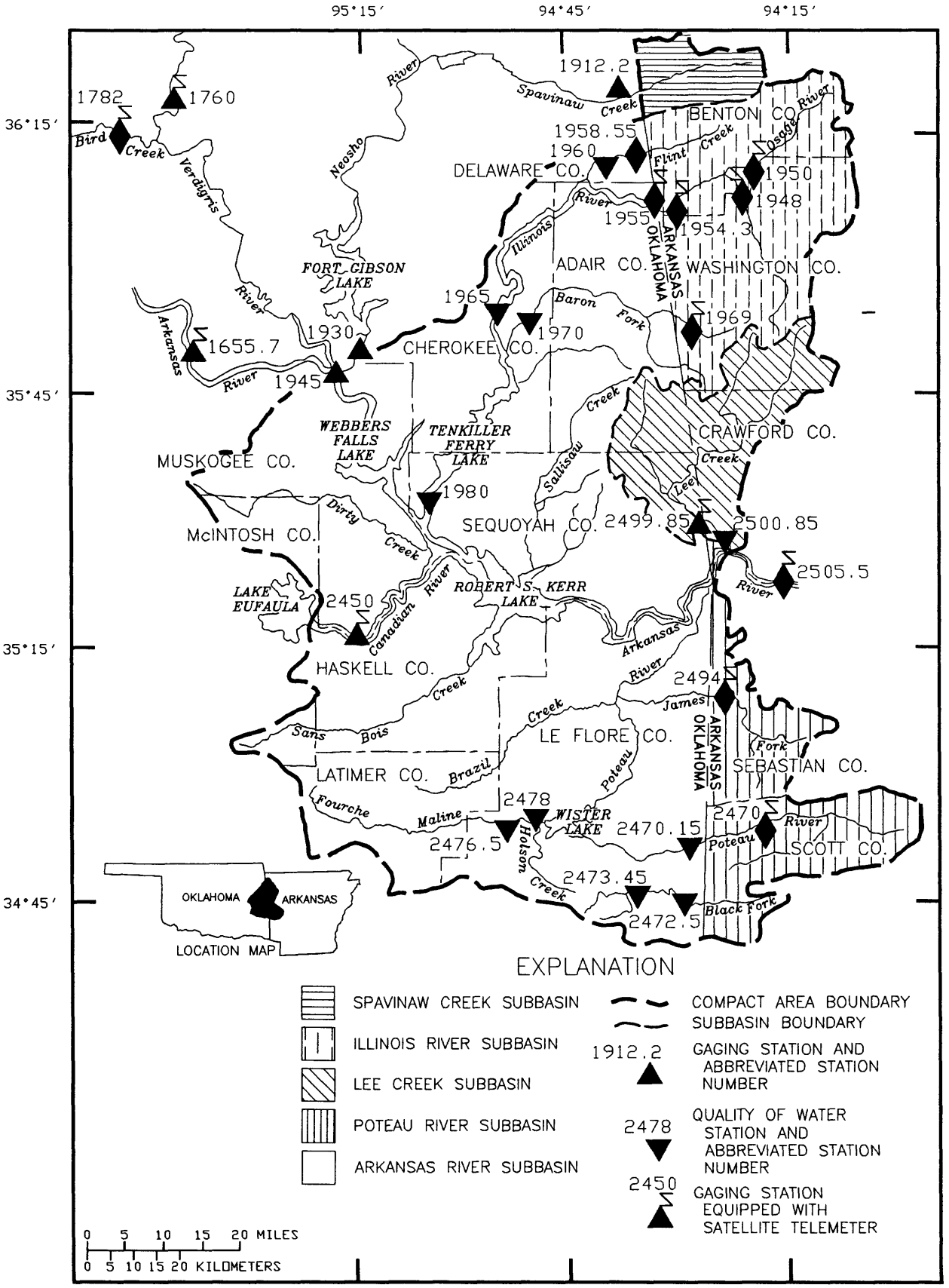

Figure 1.--Arkansas-Oklahoma Arkansas River Basin Compact area and subbasins.

The term "water year" means a 12-month period beginning on October 1 and ending September 30.

The term "annual yield" means the computed annual gross runoff from any specified subbasin. The runoff would have passed any certain point on a stream and would have originated within any specified area under natural conditions without any manmade depletion or accretion during the water year.

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below.

Acre-foot is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet.

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

Escherichia coli (*E. coli*) also are present in the digestive tract of warm-blooded animals. In the laboratory, *E. coli* is defined as all organisms that produce orange/yellow when incubated for two hours at 35°C ± 0.2°C and transferred to 44.5° ±0.2° for 22-24 hours on mTEC agar (nutrient medium for *E. coli* growth), and strained with phenol red solution. Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all the organisms that produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters (mL) of sample.

Fecal streptococcal bacteria also are present in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as grampositive, cocci bacteria that are capable of growth in brain-heart infusion broth. These bacteria also are defined as all the organisms that produce red or pink colonies within 48 hours at 35°C ± 0.5°C on KF-streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

1028 Oklahoma District, Water Resources Division (WRD), U.S. Geological Survey
80513 Arkansas District, WRD, U.S. Geological Survey
80020 National Water Quality Laboratory, WRD, U.S. Geological Survey.

Contents are 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.

Cubic foot per second is the rate of discharge representing a volume of 1 cubic foot passing a specified point during 1 second.

Deficiency is the amount the actual runoff is less than the minimum required flow.

Depletion caused by major reservoirs is the difference between the inflow and outflow in the reservoirs.

Discharge is the volume of water that passes a given point within a given period of time.

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

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Dissolved refers to the material in a representative water sample that passes through a 0.45-micron membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen content of water in equilibrium with air is a function of atmospheric pressure and temperature and the dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant effect. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water of some streams.

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

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

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

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

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

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

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

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

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

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

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

STORET parameter codes are codes assigned to specific hydrologic measurement types for computer storage of data. These five-digit codes (shown in parentheses) are included with the water-quality information in the Hydrologic Station Records section.

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.

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

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

COMPUTATION OF ANNUAL YIELDS

The annual yield and deficiency (table 1) for each subbasin were computed as described in Appendix I to the Arkansas River Basin Compact, Arkansas-Oklahoma, 1972, supplement No. 1. Actual runoff for the subbasins (table 2) was computed as described in the Compact except for the stations Arkansas River at Muskogee, which has been discontinued, Arkansas River at Van Buren, which has been moved 7.9 miles downstream, and Lee Creek near Van Buren, which has been moved 3.2 miles upstream to near Short, Oklahoma.

Table 1.--*Annual yield and deficiency for the subbasins for the 1995 water year, as defined in the Arkansas River Basin Compact, Arkansas-Oklahoma, 1972*

[Flow in cubic feet per second]

Subbasin	Actual runoff from the subbasins	Total depletions or accretions (-)	Annual yield	[a]Percent depletion allowed	Minimum required flow	[b]Deficiency
Spavinaw Creek	170	[c]0.8	171	50	86	0
Illinois River	1,050	[c]495	1,545	60	618	0
Lee Creek	728	[c]24.9	753	100	0	0
Poteau River	814	[c]2.0	816	60	326	0
Arkansas River	5,250	[d]264	5,514	60	2,206	0

[a]Defined in the Arkansas River Basin Compact, Arkansas-Oklahoma, 1972.
[b]The amount the actual runoff is less than the minimum required flow.
[c]Based on 1994 water year water-use data.
[d]Based on 1994 water-use data and 1995 direct diversions from lake storage.

Table 2.--*Actual runoff from the subbasins for the 1995 water year*

[In cubic feet per second; D.A. = drainage area; mi^2 = square mile; acre-ft = acre-feet]

Month	Spavinaw Creek [a]D.A. = 135 mi^2	Illinois River [b]D.A. = 744 mi^2	Lee Creek D.A. = 426 mi^2	Poteau River [c]D.A. = 536 mi^2	Arkansas River [d]D.A. = 4,591 mi^2
October	24.3	169	25.6	21.1	124
November	186	1,330	1,680	2,690	12,360
December	83.7	780	784	1,370	13,600
January	200	1,860	1,370	1,910	13,050
February	95.8	638	375	251	4,595
March	142	962	758	414	2,732
April	234	1,490	1,160	810	5,935
May	405	2,540	1,640	1,740	7,085
June	494	1,880	771	448	0
July	93.2	472	136	58.3	3,317
August	50.0	225	17.0	9.22	0
September	35.1	204	8.52	12.6	0
1995 water year	170	1,050	728	814	5,246
1995 water year (acre-ft)	123,000	761,000	527,000	590,000	3,801,000

[a]Includes 31 mi^2 ungaged.
[b]Includes 63 mi^2 ungaged.
[c]Includes 125 mi^2 ungaged.
[d]Computed by subtracting drainage area at Arkansas River at Muskogee, Canadian River near Whitefield, Illinois River Subbasin, Lee Creek Subbasin, and Poteau River Subbasin from drainage area at Arkansas River at James W. Trimble Dam near Van Buren, Arkansas.

Annual depletion caused by major reservoirs (table 3) was computed for the four major reservoirs in the basin as described in Appendix I to the Compact. Depletions caused by small reservoirs and minor diversions for municipal and agricultural use are considered by subbasins in table 1.

A compilation of the areas and capacities of lakes and ponds in Arkansas (Arkansas Soil and Water Conservation Commission, 1981) was used to evaluate depletions caused by small reservoirs in the Poteau River, Lee Creek, Spavinaw Creek, and Illinois River subbasins. Analysis indicated that their impact on the depletions in any subbasin, except Illinois River, was probably insignificant. Information on depletions continue to be gathered in order to re-evaluate their present impact.

Streamflow data used in the computations are given in hydrologic station records (p. 8 to 63). 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 of the actual discharge, "good" means within 10 percent, and "fair" means within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Table 3.--*Annual depletion caused by major reservoirs for the 1995 water year*

[acre-ft = acre-feet; ft^3/s = cubic feet per second]

Reservoir	Year-end contents (acre-ft)	Change in contents in water year (acre-ft)	[a]Precipitation on reservoir surface (inches)	[b]Evaporation from reservoir (inches)	[a]Diversions (acre-ft)	Depletion (acre-ft)	Depletion (ft^3/s)
Webbers Falls	169,000	+5,230	49.79	69.08	0	+19,610	+27.1
Tenkiller Ferry	656,600	+14,800	43.61	55.56	6,230	+29,690	+41.0
Robert S. Kerr	523,500	+5,600	51.57	63.88	0	+47,120	+65.0
Wister	47,200	-12,870	50.32	53.16	9,540	+200	+0.3

[a]From U.S. Corps of Engineers, Tulsa District.
[b]Adjusted for pan coefficient of 0.70 (from Wisler and Brater, 1949).

SELECTED REFERENCES

Arkansas River Compact Committee, 1972, Arkansas River Basin Compact Arkansas-Oklahoma, 1972, with Supplemental Interpretive Comments, Supplement No. 1: Austin, Texas, 31 p.

Arkansas Soil and Water Conservation Commission, 1981, Arkansas State Water Plan - Lakes of Arkansas, 157 p.

Wisler, C.D., and Brater, E.F., 1949, Hydrology: New York, John Wiley & Sons, Inc., 150 p.

HYDROLOGIC STATION RECORDS

ABBREVIATIONS

AC-FT	Acre-foot
COLS./100ML	Number of colonies per 100 milliliters
DEG. C	Degrees Celsius
FLTRD (other abreviations sometimes used)	Filtered
FT FM L BANK	Feet from left bank
INST	Instantaneous
K	Non-ideal count
MG/L	Milligrams per liter
µ	Micron
µG/L	Micrograms per liter
ML	Milliliters
MM	Millimeters
NTU	Nephelemetric turbidity units
REC	Recoverable
UM-MF	Micron membrane filter
T/DAY	Tons per day
US/CM	Microsiemens per centimeter at 25 degrees Celsius
<	Less than
---	No data available

ARKANSAS RIVER SUBBASIN

07165570 ARKANSAS RIVER NEAR HASKELL, OKLAHOMA

LOCATION.--Lat 35°49'15", long 95°38'19", in SW1/4NW1/4, sec.32, T.16 N., R.16 E., Wagoner County, near left downstream abutment of old bridge downstream from State Highway 104, 2.0 mi east of Haskell, 23.5 mi upstream from Verdigris River, and at mile 483.7.

DRAINAGE AREA.--75,473 mi^2, of which 12,541 mi^2 probably is noncontributing.

AVERAGE DISCHARGE.--23 years, 10,340 ft^3/s.

EXTREMES.--June 1972 to current year: Maximum discharge 259,000 ft^3/s Oct. 5, 1986; minimum daily 87 ft^3/s Sept. 13, 1988.

REMARKS.--Records fair. Flow regulated by Keystone Lake, 55.1 mi upstream. U.S. Army Corps of Engineers' satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	39,985	3,770	498	1,290	79,310
November	243,687	23,000	527	8,123	483,400
December	222,900	15,200	1,000	7,190	442,100
January	120,940	7,590	1,380	3,901	239,900
February	89,949	11,000	969	3,212	178,400
March	488,400	31,100	1,470	15,750	968,700
April	259,730	24,700	1,800	8,658	515,200
May	953,000	57,700	17,100	30,740	1,890,000
June	2,354,400	138,000	46,100	78,480	4,670,000
July	965,100	50,200	13,200	31,130	1,914,000
August	1,008,700	42,700	11,800	32,540	2,001,000
September	248,150	15,300	3,290	8,272	492,200
Water year 1995	6,994,941	138,000	498	19,160	13,870,000

ARKANSAS RIVER SUBBASIN

07176000 VERDIGRIS RIVER NEAR CLAREMORE, OKLAHOMA

LOCATION.--Lat 36°18'26", long 95°41'52", in NE1/4NW1/4, sec.15, T.21 N., R.15 E., Rogers County, on left bank on downstream side of bridge on State Highway 20, 2.3 mi downstream from Caney River, 4.5 mi west of Claremore, 12.4 mi upstream from Bird Creek, and at mile 76.0.

DRAINAGE AREA.--6,534 mi^2.

AVERAGE DISCHARGE.--27 years (water years 1936-62), 3,723 ft^3/s; 31 years (water years 1965-95), 4,626 ft^3/s.

EXTREMES.--October 1935 to current year: Maximum discharge 182,000 ft^3/s May 21, 1943; no flow at times in 1936, 1939-40, 1956.

REMARKS.--Records good. Flow regulated since May 1963 by Oologah Lake 14.3 mi upstream; some regulation by dams in Kansas since 1949 and by Hulah Lake since 1950. U.S. Army Corps of Engineers' satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	12,297	3,180	82	397	24,390
November	209,241	13,600	128	6,975	415,000
December	149,704	11,200	389	4,829	296,900
January	20,902	1,250	363	674	41,460
February	18,129	1,290	287	647	35,960
March	162,149	14,800	506	5,231	321,600
April	154,876	21,400	328	5,163	307,200
May	667,700	31,000	12,600	21,540	1,324,000
June	761,100	34,900	14,800	25,370	1,510,000
July	692,500	40,300	11,300	22,340	1,374,000
August	225,793	15,300	148	7,284	447,900
September	8,160	1,180	142	272	16,190
Water year 1995	3,082,551	40,300	82	8,445	6,114,000

ARKANSAS RIVER SUBBASIN

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA

LOCATION.--Lat 36°13'23", long 95°49'09", in SE1/4SE1/4, sec.9, T.20 N., R.14 E., Tulsa County,, near left bank on downstream abutment of bridge, 2.3 mi downstream from Elm Creek, 5 mi northwest of Catoosa High School, and at mile 9.5.

DRAINAGE AREA.--1,103 mi^2.

AVERAGE DISCHARGE.--7 years, 1,193 ft^3/s.

EXTREMES.--August 1988 to current year: Maximum discharge 27,400 ft^3/s May 11, 1993, gage height, 33.22 ft; minimum daily discharge 62 ft^3/s Nov. 6, 1993.

REMARKS.--Records fair. Some regulation by Skiatook Lake (station 07177400). U.S. Geological Survey's satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	13,859	1,660	122	447	27,490
November	78,078	11,70	172	2,603	154,900
December	11,796	1,900	200	381	23,400
January	7,262	353	200	234	14,400
February	7,114	1,430	157	254	14,110
March	52,653	8,930	247	1,698	104,400
April	93,444	10,300	216	3,115	185,300
May	177,440	18,600	2,890	5,724	352,000
June	169,746	16,500	726	5,658	336,700
July	99,047	12,800	263	3,195	196,500
August	14,165	1,720	228	457	28,100
September	13,975	1,610	222	466	27,720
Water year 1995	738,579	18,600	122	2,024	1,465,000

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--AUGUST 1988 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 1988 to current year.
pH: August 1988 to current year.
WATER TEMPERATURE: August 1988 to current year.
DISSOLVED OXYGEN: August 1988 to current year.

INSTRUMENTATION.--Water-quality monitor since August 1988.

REMARKS.--Interruptions in record were due to malfunction of the recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,300 microsiemens, Nov. 4, 1992; minimum 56 microsiemens, July 18, 1989.
pH: Maximum, 9.4 units, July 17, 1989; minimum 6.0 units, May 12, 1991.
WATER TEMPERATURE: Maximum, 32°C, Aug. 1, 1993; minimum 1.5°C, Dec. 23, 1989, Jan. 20, 1993.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L, Jan. 20, 1992; minimum 2.6 mg/L, Apr. 18, 1991.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 976 microsiemens, Feb. 28; minimum 84 microsiemens, July 4.
pH: Maximum recorded (more than 20 percent missing record), 8.0 units, Oct. 2, Dec. 31, Jan. 1, 2, 7-11, Feb. 22; minimum recorded, 7.0 units, June 12, July 13, Aug. 11, 19, 20.
WATER TEMPERATURE: Maximum, 30.5°C, Aug. 20, 21; minimum 3.5°C, Jan. 5.
DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, Feb. 22, but may have been higher Feb. 11-21 when probe failed; minimum recorded, 3.3 mg/L, Sept. 8.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	344	314	341	588	546	563	322	304	308	682	647	663
2	340	315	330	617	552	572	444	322	378	650	630	640
3	342	320	336	618	527	577	497	444	469	660	642	651
4	346	319	337	527	171	305	517	480	493	669	647	652
5	347	321	339	218	149	185	532	503	516	708	669	695
6	347	328	342	320	145	228	546	515	528	686	641	658
7	364	115	313	357	239	332	580	546	568	649	637	644
8	337	207	262	406	357	378	575	520	563	649	627	639
9	608	337	428	500	172	333	817	507	586	653	636	644
10	421	382	406	291	157	228	556	460	496	664	649	653
11	387	363	378	391	291	343	470	414	434	681	662	672
12	379	352	369	433	391	406	433	415	426	694	681	687
13	384	350	371	467	433	444	484	429	453	706	694	698
14	369	343	361	502	467	486	527	483	497	709	695	702
15	427	351	371	506	491	500	572	528	543	708	697	703
16	427	363	387	497	476	485	573	360	457	712	702	707
17	387	354	374	492	473	484	626	403	537	725	670	706
18	418	223	322	521	483	501	626	519	553	678	664	672
19	371	272	338	598	340	476	533	512	524	677	603	628
20	464	371	408	449	172	273	566	533	548	704	641	657
21	448	366	401	223	163	184	606	566	586	729	699	711
22	443	397	423	277	181	239	610	592	599	783	729	754
23	430	396	410	296	257	280	612	594	605	798	766	787
24	429	390	412	304	289	296	622	600	607	766	736	749
25	461	413	429	311	303	307	624	607	617	741	720	731
26	485	459	475	309	285	293	626	611	618	721	707	716
27	503	477	485	298	291	295	643	625	632	716	638	672
28	544	481	525	299	294	296	650	634	640	652	640	647
29	574	523	556	300	293	297	658	637	650	694	651	677
30	561	521	545	305	295	299	656	645	651	694	678	685
31	576	514	538	---	---	---	674	652	663	702	693	696
MONTH	608	115	397	618	145	363	817	304	540	798	603	684

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	722	702	712	562	449	497	568	541	558	291	267	280
2	734	720	726	476	378	411	570	549	557	295	262	280
3	720	705	714	447	372	384	583	570	575	329	276	292
4	710	699	706	535	447	497	617	583	602	306	192	241
5	708	685	699	532	456	485	615	595	607	277	268	272
6	693	676	685	456	399	417	607	586	598	296	252	276
7	684	675	681	508	400	435	596	577	589	269	145	208
8	680	664	672	430	391	410	593	577	588	153	115	133
9	682	667	670	424	385	394	595	565	582	145	117	131
10	707	682	698	445	395	417	582	416	550	222	145	179
11	722	700	713	444	415	425	574	237	312	286	222	265
12	739	722	733	425	406	416	345	302	321	292	286	290
13	751	739	747	535	349	423	346	336	341	298	291	294
14	754	748	750	349	217	262	351	337	343	299	293	295
15	769	741	752	285	230	269	423	351	381	295	291	292
16	789	769	782	296	271	286	465	423	435	293	289	291
17	796	775	782	302	293	298	482	206	310	352	289	303
18	790	778	782	304	300	302	251	143	192	301	210	268
19	791	779	787	304	298	302	263	150	204	298	227	276
20	788	775	781	312	300	303	303	241	272	292	277	281
21	817	782	794	336	312	326	275	239	254	282	279	281
22	814	791	800	385	336	360	300	249	272	283	278	280
23	803	790	796	394	367	379	264	183	221	286	275	281
24	799	753	770	445	381	409	265	183	213	324	279	298
25	774	742	760	491	445	458	295	268	287	318	262	288
26	757	735	747	519	487	496	291	279	285	280	159	239
27	738	332	535	532	499	516	295	288	292	228	172	192
28	976	530	667	547	529	537	291	285	288	224	163	198
29	---	---	---	547	524	539	---	---	---	269	206	245
30	---	---	---	552	529	543	---	---	---	303	264	274
31	---	---	---	567	547	555	---	---	---	292	249	267
MONTH	976	332	730	567	217	411	---	---	---	352	115	258

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	255	129	197	222	193	205	444	400	432	447	397	415
2	234	148	203	226	219	223	583	344	407	438	405	415
3	267	210	246	236	130	208	558	301	375	444	394	414
4	210	138	175	130	84	100	394	224	317	441	391	409
5	198	152	171	144	99	110	306	277	289	437	394	412
6	204	126	165	244	144	222	293	270	280	444	400	412
7	153	127	142	243	233	238	312	286	302	419	303	363
8	273	143	185	239	232	235	320	302	312	414	340	374
9	297	125	210	242	239	240	317	302	311	356	315	333
10	127	116	123	246	241	243	352	312	324	363	338	348
11	146	118	130	244	240	242	388	350	364	404	357	370
12	220	134	173	241	237	239	443	388	411	433	384	402
13	330	220	278	252	237	246	443	419	432	414	384	397
14	403	330	369	257	248	252	466	425	440	452	397	417
15	460	403	430	273	252	260	448	420	436	451	394	418
16	464	345	417	263	254	257	458	416	436	423	272	356
17	353	343	347	262	253	258	446	416	430	387	242	299
18	361	345	353	265	255	261	445	408	429	266	245	259
19	345	328	334	262	258	260	443	411	427	282	243	261
20	334	325	330	336	256	273	446	414	428	291	261	279
21	332	322	328	269	262	265	441	407	426	324	277	304
22	329	320	326	278	227	259	438	417	424	353	316	338
23	328	161	295	260	254	257	445	412	429	368	319	350
24	301	214	280	278	250	260	438	404	426	366	328	347
25	303	270	291	262	254	259	437	405	425	381	345	364
26	341	301	321	302	243	276	433	401	422	380	337	358
27	320	291	303	302	290	297	431	402	419	382	342	357
28	327	317	322	353	296	314	426	394	411	365	194	308
29	326	175	264	402	353	367	431	394	409	592	322	414
30	214	147	171	461	402	425	425	396	411	529	370	436
31	---	---	---	461	426	444	417	398	411	---	---	---
MONTH	464	116	263	461	84	258	583	224	393	592	194	364

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	22.0	23.0	16.0	15.0	15.5	11.5	11.0	11.5	9.0	6.5	7.5
2	24.0	22.5	23.0	16.0	15.5	15.5	12.0	11.0	11.5	7.0	6.5	6.5
3	23.5	22.5	23.0	18.5	16.0	17.0	12.5	12.0	12.0	7.0	6.0	6.5
4	24.0	22.5	23.5	18.5	17.0	18.0	13.0	12.5	12.5	6.0	4.5	5.0
5	24.0	23.0	23.0	17.0	12.5	14.0	13.0	12.0	12.5	5.0	3.5	4.5
6	23.5	22.0	22.5	13.0	12.0	12.5	12.0	11.5	12.0	5.0	4.5	4.5
7	23.5	19.0	22.0	14.0	13.0	13.5	12.0	10.5	11.5	5.0	4.0	4.5
8	19.5	17.5	18.5	15.5	14.0	14.5	10.5	8.5	10.0	5.0	4.5	5.0
9	19.5	18.5	19.0	16.0	14.5	15.5	8.5	7.5	8.0	6.0	5.0	5.5
10	19.0	17.5	18.0	15.5	14.0	14.5	7.5	6.5	7.0	7.5	6.0	6.5
11	18.5	17.5	18.0	14.0	13.0	13.5	7.5	6.5	7.0	8.0	7.5	7.5
12	19.0	17.0	18.0	13.5	12.5	13.0	7.5	6.5	7.0	8.5	8.0	8.5
13	19.0	18.0	18.5	14.5	13.5	13.5	8.0	7.0	7.5	9.0	8.0	8.5
14	19.0	18.0	18.5	15.0	14.0	14.5	8.5	8.0	8.0	8.5	8.0	8.5
15	19.0	18.0	18.5	14.5	14.0	14.5	8.5	8.0	8.5	8.5	7.5	8.0
16	19.0	18.5	18.5	14.0	13.0	13.5	8.5	7.5	8.0	9.0	8.0	8.5
17	19.5	19.0	19.0	13.5	12.5	13.0	8.5	7.5	8.0	10.0	9.0	9.5
18	20.0	19.5	19.5	14.0	12.5	13.0	8.5	7.5	8.0	9.5	8.0	9.0
19	20.0	19.0	19.5	14.0	12.5	13.5	8.5	7.5	8.0	8.5	6.0	7.0
20	20.0	19.0	19.5	12.5	11.5	12.0	9.0	8.0	8.5	8.0	6.0	7.0
21	21.0	19.5	20.0	12.0	11.0	11.5	9.0	8.5	9.0	8.0	7.0	7.0
22	20.5	19.5	20.0	12.0	10.0	11.0	9.0	8.5	8.5	7.5	6.5	7.0
23	20.5	19.0	19.5	11.0	9.5	10.5	9.0	8.0	8.5	7.5	6.5	7.0
24	20.0	19.0	19.0	11.0	10.5	11.0	8.0	7.5	7.5	7.5	6.5	7.0
25	19.0	17.5	18.5	12.0	11.0	11.5	8.0	7.0	7.5	8.0	7.5	7.5
26	17.5	16.5	17.0	13.0	12.0	12.5	7.5	7.0	7.0	8.0	7.5	8.0
27	16.5	15.5	16.0	13.5	13.0	13.0	8.0	7.0	7.5	10.0	8.0	9.0
28	16.5	15.7	16.1	13.0	12.5	12.5	8.5	7.5	8.0	10.0	9.0	9.5
29	16.8	15.8	16.4	12.5	12.0	12.0	9.0	8.0	8.5	9.0	8.0	8.5
30	17.2	16.5	16.9	12.0	11.5	11.5	9.0	8.5	8.5	8.5	8.0	8.0
31	17.5	16.0	17.0	---	---	---	9.0	8.5	9.0	9.0	7.5	8.0
MONTH	24.0	15.5	19.3	18.5	9.5	13.4	13.0	6.5	8.9	10.0	3.5	7.2

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	8.5	8.5	9.5	7.0	8.0	15.5	14.0	14.5	15.0	15.0	15.0
2	10.5	9.0	9.5	7.0	6.0	6.5	16.5	14.5	15.5	15.0	14.0	14.5
3	10.5	10.0	10.0	6.5	5.5	6.0	16.5	15.5	16.0	14.0	14.0	14.0
4	10.0	9.0	9.5	6.5	6.0	6.5	16.5	15.0	16.0	14.0	13.5	14.0
5	10.0	9.0	9.5	7.0	6.5	6.5	17.0	15.5	16.0	15.0	14.0	14.5
6	9.5	9.0	9.5	7.5	6.5	7.0	17.5	16.0	17.0	15.0	14.0	14.5
7	9.5	8.5	9.0	7.5	5.5	6.5	18.5	17.0	17.5	17.0	15.0	15.5
8	9.0	8.0	8.5	6.0	5.0	5.5	20.0	18.0	19.0	17.0	16.0	16.5
9	9.0	8.0	8.5	6.5	5.5	6.0	20.5	19.5	20.0	17.5	16.5	17.0
10	9.5	8.5	9.0	8.5	6.5	7.5	20.5	17.0	19.5	18.0	17.5	18.0
11	9.0	7.5	8.5	10.0	7.5	8.5	17.0	14.5	15.5	18.0	16.0	17.0
12	8.0	6.0	7.0	11.0	9.5	10.5	14.5	14.0	14.5	17.0	16.0	16.5
13	7.0	6.0	6.5	13.0	11.0	11.5	15.0	13.5	14.0	17.5	16.0	17.0
14	7.0	6.0	6.5	12.5	12.0	12.5	15.5	14.0	14.5	17.5	16.5	17.0
15	7.0	6.5	6.5	14.0	12.5	13.5	17.0	14.5	15.5	18.0	16.5	17.0
16	7.0	6.0	6.5	14.0	10.5	11.5	18.0	16.5	17.0	19.0	17.5	18.0
17	7.0	6.0	6.5	11.0	10.0	10.5	18.5	17.5	18.0	21.5	18.5	19.5
18	7.5	7.0	7.5	11.0	10.0	10.5	17.5	16.0	16.5	22.0	19.0	20.5
19	8.5	7.5	8.0	12.0	10.5	11.0	17.0	16.0	16.5	22.0	20.5	21.0
20	9.5	8.0	9.0	12.5	11.5	12.0	17.0	16.0	16.0	20.5	19.0	19.5
21	10.0	9.0	9.5	13.0	12.0	12.5	17.0	16.0	16.5	19.5	18.5	19.0
22	13.0	9.5	10.5	16.0	13.0	14.5	16.0	13.0	14.5	19.0	17.5	18.5
23	12.0	10.5	11.5	16.5	15.0	16.0	13.0	12.0	12.5	18.5	17.5	18.0
24	12.5	11.5	12.0	16.5	15.0	15.5	13.0	12.0	12.5	18.5	17.5	18.0
25	12.5	11.5	12.0	16.5	15.5	16.0	14.5	13.0	13.5	19.0	17.0	17.5
26	13.0	12.0	13.0	16.5	16.0	16.0	15.0	14.5	15.0	17.5	16.5	17.0
27	14.0	12.5	13.0	16.5	15.5	16.0	15.0	14.5	15.0	19.0	17.5	18.5
28	12.5	9.5	11.0	16.5	15.0	15.0	---	---	---	20.5	19.0	20.0
29	---	---	---	15.0	14.0	14.5	---	---	---	20.5	19.0	19.5
30	---	---	---	14.5	13.5	14.0	---	---	---	19.0	17.5	18.0
31	---	---	---	14.5	13.5	14.0	---	---	---	18.5	17.0	18.0
MONTH	14.0	6.0	9.2	16.5	5.0	11.0	---	---	---	22.0	13.5	17.4

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	17.5	18.0	21.5	20.5	21.0	29.0	27.5	28.5	29.5	28.5	29.0
2	20.0	18.0	19.0	21.0	20.0	20.5	28.0	25.0	27.0	29.0	28.5	29.0
3	20.5	18.5	19.5	21.5	20.5	20.5	27.5	26.5	27.0	29.0	28.5	29.0
4	21.5	19.0	20.5	22.0	20.5	21.5	27.0	26.0	26.5	29.0	28.0	28.5
5	22.0	20.5	21.5	23.5	22.0	23.0	26.5	25.5	26.0	29.0	28.0	28.5
6	22.0	21.0	21.5	23.5	22.0	22.5	26.0	24.5	25.5	28.5	27.5	28.0
7	22.0	20.5	21.0	22.5	21.5	22.0	27.0	25.0	25.5	28.0	25.0	25.5
8	24.0	22.0	23.0	22.0	21.5	22.0	27.0	25.5	26.0	26.0	24.5	25.5
9	23.5	20.0	21.5	22.5	21.5	22.0	27.0	25.5	26.0	25.0	24.0	24.5
10	20.5	20.0	20.5	22.5	21.5	22.0	27.5	25.5	26.0	24.5	22.5	23.5
11	21.0	20.5	20.5	22.5	21.5	22.0	28.0	26.0	27.0	24.5	23.0	23.5
12	22.0	20.5	21.0	22.5	22.0	22.0	29.5	27.0	28.0	24.0	23.0	23.5
13	22.5	21.0	21.5	22.5	22.0	22.5	30.0	28.5	29.0	25.5	23.5	24.5
14	24.0	22.0	23.0	22.5	22.0	22.5	30.0	28.5	29.5	26.0	24.5	25.0
15	25.0	23.0	24.0	24.0	22.5	23.0	30.0	29.0	29.5	26.0	25.0	25.5
16	25.5	21.5	24.0	23.5	22.5	23.0	30.0	28.5	29.5	25.0	23.5	24.5
17	23.0	21.5	22.0	23.5	23.0	23.0	30.0	29.0	29.5	24.5	23.5	24.0
18	22.5	21.5	22.0	24.0	22.5	23.0	30.0	29.0	29.5	24.0	23.5	23.5
19	22.0	21.0	21.5	23.0	22.5	23.0	30.0	29.0	30.0	24.0	23.5	23.5
20	22.5	21.0	21.5	24.0	22.5	23.0	30.5	29.5	30.0	24.0	22.0	22.5
21	22.5	21.0	22.0	24.0	22.5	23.0	30.5	29.0	29.5	22.0	19.5	21.0
22	23.0	21.5	22.0	24.5	23.0	23.5	30.0	29.0	29.5	19.5	18.5	19.0
23	23.0	21.5	22.0	24.0	23.0	23.5	30.0	29.0	29.5	19.0	17.5	18.0
24	22.5	21.5	22.0	24.0	23.0	23.5	29.5	28.0	28.5	19.0	17.0	18.0
25	22.5	21.5	22.0	24.0	23.0	23.5	29.0	27.5	28.5	18.5	17.5	18.0
26	22.5	21.5	22.0	25.0	23.0	24.0	29.0	28.0	28.5	19.0	17.5	18.0
27	22.5	21.0	21.5	25.5	24.0	24.5	29.0	28.0	28.5	20.0	18.0	19.0
28	23.0	21.5	22.0	27.0	24.0	25.0	29.0	28.5	29.0	21.0	19.5	20.0
29	22.0	20.5	21.5	28.0	25.5	26.5	29.5	28.5	29.0	22.5	20.5	21.5
30	22.0	21.0	22.0	29.0	27.0	28.0	29.5	28.5	29.0	23.0	22.0	22.0
31	---	---	---	29.0	28.5	29.0	29.5	28.5	29.0	---	---	---
MONTH	25.5	17.5	21.5	29.0	20.0	23.2	30.5	24.5	28.2	29.5	17.0	23.5

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	7.9	7.4	7.7	7.5	7.3	7.4	7.7	7.5	7.6	8.0	7.8	7.9
2	8.0	7.4	7.7	7.5	7.3	7.3	7.6	7.5	7.5	8.0	7.8	7.9
3	7.8	7.4	7.7	7.5	7.2	7.4	7.5	7.5	7.5	7.9	7.8	7.9
4	7.9	7.4	7.7	7.6	7.2	7.5	7.5	7.5	7.5	7.9	7.8	7.8
5	7.8	7.5	7.6	7.5	7.2	7.3	7.6	7.5	7.5	7.9	7.8	7.9
6	7.7	7.4	7.6	7.4	7.2	7.3	7.6	7.6	7.6	7.9	7.9	7.9
7	7.8	7.4	7.5	7.6	7.4	7.6	7.7	7.6	7.6	8.0	7.9	7.9
8	7.6	7.2	7.3	7.7	7.6	7.7	7.7	7.6	7.7	8.0	7.9	8.0
9	7.3	7.2	7.3	7.8	7.4	7.7	7.7	7.6	7.6	8.0	7.9	7.9
10	7.3	7.2	7.3	7.6	7.4	7.5	7.7	7.6	7.6	8.0	7.9	7.9
11	7.4	7.2	7.3	7.8	7.6	7.7	7.8	7.6	7.7	8.0	7.7	7.9
12	7.5	7.2	7.4	7.8	7.7	7.8	7.8	7.7	7.8	7.8	7.7	7.7
13	7.5	7.3	7.4	7.8	7.7	7.8	7.8	7.7	7.8	7.7	7.6	7.7
14	7.5	7.2	7.4	7.8	7.7	7.7	7.8	7.7	7.7	7.8	7.7	7.7
15	7.6	7.3	7.4	7.8	7.5	7.6	7.7	7.6	7.7	7.8	7.7	7.7
16	7.6	7.3	7.5	7.6	7.4	7.6	7.9	7.7	7.8	7.8	7.7	7.7
17	7.5	7.3	7.4	7.7	7.5	7.6	7.8	7.7	7.7	7.8	7.7	7.8
18	7.6	7.3	7.4	7.8	7.5	7.7	7.8	7.7	7.8	7.8	7.7	7.7
19	7.5	7.3	7.4	7.7	7.5	7.6	7.9	7.7	7.7	7.8	7.7	7.7
20	7.5	7.2	7.4	7.7	7.3	7.5	7.9	7.7	7.7	7.7	7.7	7.7
21	7.4	7.3	7.3	7.7	7.2	7.5	7.9	7.8	7.9	7.7	7.7	7.7
22	7.4	7.3	7.4	7.6	7.3	7.4	7.9	7.9	7.9	7.7	7.6	7.7
23	7.4	7.2	7.3	7.6	7.4	7.5	7.9	7.9	7.9	7.7	7.6	7.7
24	7.4	7.2	7.3	7.6	7.5	7.5	7.9	7.9	7.9	7.7	7.7	7.7
25	7.5	7.2	7.3	7.6	7.5	7.6	7.9	7.9	7.9	7.7	7.6	7.7
26	7.6	7.3	7.5	7.6	7.5	7.5	7.9	7.9	7.9	7.7	7.6	7.6
27	7.6	7.3	7.5	7.6	7.5	7.6	7.9	7.8	7.9	7.7	7.6	7.6
28	7.5	7.4	7.4	7.6	7.6	7.6	7.9	7.9	7.9	7.6	7.5	7.6
29	7.4	7.3	7.4	7.7	7.6	7.6	7.9	7.9	7.9	7.6	7.6	7.6
30	7.4	7.3	7.4	7.7	7.6	7.6	7.9	7.9	7.9	7.7	7.6	7.7
31	7.5	7.3	7.4	---	---	---	8.0	7.9	7.9	7.7	7.6	7.7
MAX	8.0	7.5	7.7	7.8	7.7	7.8	8.0	7.9	7.9	8.0	7.9	8.0
MIN	7.3	7.2	7.3	7.4	7.2	7.3	7.5	7.5	7.5	7.6	7.5	7.6

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	7.7	7.6	7.7	---	---	---	---	---	---	7.6	7.5	7.5
2	7.7	7.6	7.7	---	---	---	---	---	---	7.6	7.4	7.5
3	7.7	7.6	7.7	---	---	---	---	---	---	7.6	7.4	7.5
4	7.7	7.6	7.7	---	---	---	---	---	---	7.6	7.6	7.6
5	7.7	7.7	7.7	---	---	---	---	---	---	7.8	7.6	7.7
6	7.8	7.7	7.7	---	---	---	---	---	---	7.8	7.7	7.8
7	7.7	7.7	7.7	---	---	---	---	---	---	---	---	---
8	7.8	7.7	7.8	---	---	---	---	---	---	---	---	---
9	7.8	7.7	7.7	---	---	---	---	---	---	---	---	---
10	7.8	7.7	7.7	---	---	---	---	---	---	---	---	---
11	7.8	7.7	7.8	---	---	---	---	---	---	---	---	---
12	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
13	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
14	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
15	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
16	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
17	7.8	7.8	7.8	---	---	---	---	---	---	---	---	---
18	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
19	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
20	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
21	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
22	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	7.8	7.3	7.6
27	---	---	---	---	---	---	---	---	---	7.4	7.1	7.2
28	---	---	---	---	---	---	---	---	---	7.3	7.1	7.2
29	---	---	---	---	---	---	---	---	---	7.4	7.2	7.3
30	---	---	---	---	---	---	---	---	---	7.5	7.3	7.4
31	---	---	---	---	---	---	---	---	---	7.5	7.3	7.4
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	7.5	7.2	7.3	---	---	---	7.8	7.4	7.6	7.6	7.2	7.4
2	7.4	7.2	7.3	---	---	---	7.6	7.2	7.3	7.6	7.4	7.6
3	7.5	7.2	7.5	---	---	---	7.4	7.2	7.3	7.6	7.5	7.6
4	7.6	7.2	7.4	---	---	---	7.4	7.3	7.3	7.7	7.4	7.5
5	7.6	7.3	7.5	---	---	---	7.5	7.4	7.4	7.8	7.7	7.7
6	7.5	7.2	7.4	---	---	---	7.4	7.2	7.3	7.8	7.7	7.7
7	7.5	7.3	7.4	---	---	---	7.5	7.1	7.4	7.9	7.4	7.5
8	7.4	7.2	7.3	---	---	---	7.4	7.2	7.3	7.6	7.4	7.5
9	7.8	7.3	7.5	---	---	---	7.4	7.2	7.3	7.6	7.4	7.6
10	7.4	7.1	7.2	---	---	---	7.3	7.1	7.2	---	---	---
11	7.4	7.1	7.2	---	---	---	7.3	7.0	7.2	---	---	---
12	7.1	7.0	7.1	---	---	---	7.3	7.1	7.2	---	---	---
13	---	---	---	7.3	7.0	7.2	7.4	7.2	7.3	---	---	---
14	---	---	---	7.4	7.2	7.3	7.4	7.1	7.2	---	---	---
15	---	---	---	7.7	7.3	7.4	7.5	7.2	7.3	---	---	---
16	---	---	---	7.6	7.3	7.6	7.5	7.3	7.4	---	---	---
17	---	---	---	7.7	7.5	7.6	7.6	7.3	7.5	---	---	---
18	---	---	---	7.7	7.4	7.6	7.7	7.2	7.5	---	---	---
19	---	---	---	7.7	7.2	7.5	7.5	7.0	7.2	---	---	---
20	7.3	7.3	7.3	7.5	7.2	7.3	7.5	7.0	7.2	---	---	---
21	7.4	7.3	7.3	7.5	7.3	7.4	7.7	7.3	7.6	---	---	---
22	7.3	7.3	7.3	7.8	7.4	7.5	7.7	7.6	7.7	---	---	---
23	7.6	7.2	7.3	7.4	7.1	7.4	7.8	7.5	7.6	---	---	---
24	7.4	7.1	7.2	7.6	7.4	7.5	7.9	7.6	7.8	---	---	---
25	7.3	7.2	7.2	7.5	7.3	7.3	7.9	7.6	7.8	---	---	---
26	7.4	7.2	7.3	7.5	7.3	7.4	7.9	7.7	7.8	---	---	---
27	7.4	7.3	7.3	7.5	7.4	7.5	7.8	7.5	7.8	---	---	---
28	7.4	7.4	7.4	7.6	7.3	7.5	7.9	7.5	7.8	---	---	---
29	7.6	7.2	7.4	7.6	7.3	7.5	7.9	7.6	7.8	---	---	---
30	---	---	---	7.7	7.2	7.6	7.9	7.3	7.5	---	---	---
31	---	---	---	7.8	7.6	7.7	7.5	7.2	7.3	---	---	---
MAX	---	---	---	---	---	---	7.9	7.7	7.8	---	---	---
MIN	---	---	---	---	---	---	7.3	7.0	7.2	---	---	---

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.1	7.9	8.0	---	---	---	11.7	10.4	11.0
2	---	---	---	8.3	7.9	8.1	14.0	10.4	12.0	11.9	11.0	11.5
3	---	---	---	10.0	7.6	8.1	10.7	9.4	9.9	12.1	11.2	11.6
4	10.0	7.8	9.0	8.0	6.6	7.2	9.6	9.1	9.4	12.7	11.7	12.1
5	8.7	6.2	6.7	8.8	5.0	7.2	9.2	8.9	9.1	12.9	12.1	12.6
6	6.7	5.8	6.3	---	---	---	9.2	9.1	9.1	12.9	11.8	12.1
7	6.9	5.6	6.0	---	---	---	9.7	9.0	9.3	13.0	11.8	12.3
8	6.8	6.2	6.5	---	---	---	10.2	9.6	9.8	12.9	12.1	12.5
9	6.9	6.4	6.7	---	---	---	10.8	10.2	10.5	12.7	11.9	12.4
10	8.1	6.4	6.9	---	---	---	11.1	10.8	11.0	12.5	11.8	12.1
11	7.9	6.8	7.1	---	---	---	11.1	11.0	11.0	12.2	11.0	11.4
12	7.1	6.7	7.0	---	---	---	11.2	11.0	11.1	11.2	10.3	10.7
13	---	---	---	---	---	---	11.0	10.8	10.9	11.1	9.9	10.4
14	---	---	---	---	---	---	10.9	10.6	10.7	11.0	9.8	10.3
15	---	---	---	---	---	---	10.8	10.5	10.7	11.0	10.1	10.6
16	---	---	---	---	---	---	11.0	10.5	10.8	11.0	10.1	10.6
17	---	---	---	---	---	---	10.9	10.6	10.8	10.8	9.6	10.2
18	---	---	---	9.2	9.0	9.1	11.0	10.6	10.8	10.0	9.3	9.6
19	---	---	---	9.0	8.4	8.7	11.0	10.7	10.8	10.7	9.5	10.2
20	7.7	6.9	7.3	---	---	---	11.0	10.6	10.9	10.6	10.1	10.3
21	7.1	6.6	6.8	---	---	---	11.0	10.5	10.7	10.9	9.9	10.4
22	7.2	6.7	6.9	---	---	---	10.8	10.3	10.5	11.1	10.4	10.8
23	7.2	6.6	6.9	---	---	---	10.8	10.4	10.6	12.0	11.1	11.5
24	8.3	6.7	7.3	---	---	---	11.0	10.5	10.8	12.0	11.0	11.5
25	9.0	6.8	7.4	---	---	---	11.2	10.7	11.0	11.8	10.8	11.4
26	---	---	---	---	---	---	11.4	11.0	11.2	11.8	10.8	11.1
27	---	---	---	---	---	---	11.4	11.0	11.2	11.1	10.1	10.3
28	8.8	8.0	8.5	---	---	---	11.3	10.9	11.1	---	---	---
29	8.0	7.7	7.9	---	---	---	11.1	10.6	10.9	---	---	---
30	8.0	7.6	7.8	---	---	---	11.3	10.7	11.0	---	---	---
31	7.9	7.5	7.7	---	---	---	11.3	10.5	10.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.0	10.7	11.3	9.6	8.4	9.1	8.5	7.6	8.0
2	10.9	10.5	10.7	---	---	---	9.5	8.1	8.9	9.1	8.5	8.8
3	10.9	9.9	10.3	---	---	---	9.4	7.7	8.4	9.4	9.0	9.3
4	11.1	9.9	10.5	---	---	---	9.7	8.1	8.9	9.4	9.2	9.3
5	11.1	10.2	10.7	---	---	---	---	---	---	9.7	9.4	9.6
6	11.1	10.4	10.8	---	---	---	---	---	---	9.6	8.6	9.4
7	11.2	10.5	10.9	---	---	---	9.6	8.7	9.0	9.2	7.8	8.4
8	11.8	10.9	11.3	---	---	---	9.8	9.2	9.5	7.9	7.2	7.6
9	11.8	10.9	11.4	---	---	---	10.0	9.3	9.6	7.2	6.1	6.8
10	11.7	10.7	11.2	13.5	11.9	12.7	8.4	6.9	7.5	6.1	5.3	5.5
11	---	---	---	11.9	11.0	11.4	7.4	6.3	6.7	9.0	5.6	8.0
12	---	---	---	11.0	10.5	10.7	6.3	5.9	6.0	9.1	8.9	9.0
13	---	---	---	11.8	9.0	10.1	5.9	5.7	5.8	9.0	8.9	9.0
14	---	---	---	11.8	8.4	9.0	5.8	5.7	5.7	9.3	8.8	9.1
15	---	---	---	9.4	8.5	8.8	5.9	5.7	5.8	9.5	9.2	9.3
16	---	---	---	11.9	9.3	11.0	6.4	5.8	6.0	9.3	9.1	9.2
17	---	---	---	12.1	11.5	11.8	7.0	5.1	5.8	9.1	8.0	8.8
18	---	---	---	11.9	11.2	11.6	7.2	5.8	6.8	9.2	7.6	8.4
19	---	---	---	11.7	11.2	11.4	8.1	6.6	7.2	9.1	8.1	8.6
20	---	---	---	11.5	10.6	11.1	8.8	8.2	8.6	9.5	9.1	9.4
21	---	---	---	10.9	10.1	10.5	9.1	8.7	8.8	9.6	9.4	9.5
22	14.3	10.7	12.5	10.4	9.6	10.0	8.8	8.6	8.7	9.9	9.4	9.6
23	11.6	10.3	10.9	9.6	8.9	9.2	---	---	---	9.9	9.6	9.7
24	12.7	10.0	11.0	9.0	8.6	8.8	---	---	---	9.6	8.0	9.0
25	13.7	10.5	11.6	8.7	8.2	8.5	9.6	9.1	9.4	9.2	8.3	8.6
26	10.8	9.7	10.3	9.0	7.9	8.4	9.8	9.5	9.7	8.8	7.3	8.3
27	10.9	8.0	9.8	9.8	8.1	9.0	10.1	9.6	9.8	7.7	7.1	7.3
28	10.7	8.7	9.8	9.6	8.3	9.1	10.7	10.1	10.5	7.1	6.6	6.7
29	---	---	---	9.7	8.2	9.0	10.2	8.5	9.2	8.3	6.9	7.7
30	---	---	---	9.8	8.4	9.2	8.8	7.6	7.9	9.0	8.3	8.8
31	---	---	---	9.8	8.6	9.3	---	---	---	8.9	8.0	8.5
MONTH	---	---	---	---	---	---	---	---	---	9.9	5.3	8.6

07178200 BIRD CREEK AT STATE HIGHWAY 266 NEAR CATOOSA, OKLAHOMA--CONTINUED

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.5	7.9	8.3	6.3	7.7	6.9	6.2	6.5	6.3	5.5	6.0
2	7.7	6.5	7.0	8.5	8.3	8.4	6.5	5.2	5.8	6.4	5.5	5.9
3	8.3	6.7	7.8	8.5	6.7	8.1	6.5	6.0	6.2	6.2	5.4	5.7
4	7.5	6.7	7.0	6.8	6.0	6.3	6.7	6.4	6.6	6.0	5.4	5.7
5	7.1	6.7	6.9	6.0	4.6	5.4	6.9	6.7	6.8	6.2	5.6	5.9
6	7.1	6.4	6.8	7.7	4.6	6.4	7.1	6.7	7.0	6.2	5.5	5.9
7	7.0	6.1	6.5	8.3	7.7	8.1	7.0	6.7	6.9	6.2	4.0	5.5
8	6.1	4.7	5.3	8.4	8.1	8.2	7.1	6.9	7.0	6.2	3.3	5.3
9	7.5	5.0	6.6	8.5	8.1	8.3	7.2	6.9	7.0	6.4	5.6	6.0
10	7.2	6.5	6.8	8.7	8.2	8.4	7.1	6.9	7.0	6.8	6.4	6.6
11	6.8	6.3	6.6	8.6	8.3	8.4	7.0	6.6	6.7	6.7	6.5	6.6
12	6.3	4.8	5.2	8.5	8.3	8.3	6.8	6.3	6.5	6.8	6.0	6.5
13	7.3	5.1	6.4	8.5	8.3	8.4	6.8	6.0	6.4	6.3	6.0	6.2
14	7.5	7.3	7.4	8.6	8.4	8.5	6.6	5.9	6.3	6.4	6.1	6.3
15	7.4	7.3	7.4	8.4	7.8	8.1	6.6	5.9	6.2	6.5	6.1	6.3
16	8.4	7.0	7.5	8.2	7.9	8.1	6.5	5.8	6.2	6.5	5.9	6.3
17	8.5	8.3	8.4	8.2	7.8	8.0	6.5	5.9	6.2	6.7	5.3	6.0
18	8.5	8.3	8.4	8.2	7.9	8.1	6.4	5.8	6.1	6.5	5.9	6.3
19	8.4	8.2	8.3	8.2	7.9	8.1	6.5	5.7	6.1	6.6	6.5	6.6
20	8.4	8.2	8.3	8.0	7.3	7.7	6.5	5.7	6.1	7.0	6.6	6.8
21	8.2	8.0	8.1	8.1	7.6	7.9	6.4	5.6	6.0	7.5	7.0	7.2
22	8.2	8.0	8.1	8.0	6.5	7.5	6.4	5.6	6.0	8.1	7.5	7.8
23	8.1	6.9	7.8	7.9	7.7	7.8	6.4	5.5	6.0	8.4	8.0	8.2
24	7.7	5.1	6.8	7.9	7.5	7.7	6.8	5.7	6.2	8.6	8.1	8.4
25	7.5	7.0	7.3	8.0	7.6	7.8	6.9	5.9	6.4	8.5	8.3	8.4
26	7.8	7.4	7.6	7.8	6.9	7.2	6.9	6.0	6.6	9.0	8.4	8.6
27	7.9	7.7	7.8	7.6	7.1	7.4	6.8	5.8	6.3	8.9	8.2	8.6
28	7.9	7.7	7.8	7.3	6.9	7.1	6.8	5.9	6.4	8.9	7.4	8.0
29	8.2	6.3	7.6	6.9	6.6	6.8	6.7	5.7	6.3	7.5	7.0	7.1
30	6.5	6.1	6.3	6.8	6.3	6.5	6.6	5.7	6.1	7.1	6.8	6.9
31	---	---	---	6.8	6.2	6.5	6.4	5.6	6.1	---	---	---
MONTH	8.5	4.7	7.3	8.7	4.6	7.7	7.2	5.2	6.4	9.0	3.3	6.7

SPAVINAW CREEK SUBBASIN

07191220 SPAVINAW CREEK NEAR SYCAMORE, OKLAHOMA

LOCATION.--Lat 36°20'07", long 94°38'27", in NE1/4NW1/4, sec.4, T.21 N., R.25 E., Delaware County, on right bank 1.8 mi upstream from Cherokee Creek, 4.8 mi northeast of Row, 6.5 mi southeast of Sycamore, and at mile 35.0.

DRAINAGE AREA.--133 mi^2.

AVERAGE DISCHARGE.--34 years, 116 ft^3/s.

EXTREMES.--October 1961 to current year: Maximum discharge 39,800 ft^3/s July 27, 1975; minimum 1.2 ft^3/s Aug. 9, 1964.

REMARKS.--Records good.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	739	28	20	23.8	1,470
November	5,496	824	23	183	10,900
December	2,548	207	51	82.2	5,050
January	6,083	1,250	41	196	12,070
February	2,635	133	74	94.1	5,230
March	4,325	490	76	140	8,580
April	6,910	844	68	230	13,710
May	12,365	2,76	140	399	24,530
June	14,592	4,520	116	486	28,940
July	2,833	131	69	91.4	5,620
August	1,541	68	31	49.7	3,060
September	1,056	61	26	35.2	2,090
Water year 1995	61,123	4,520	20	167	121,200

ARKANSAS RIVER SUBBASIN

07193000 FORT GIBSON LAKE NEAR FORT GIBSON, OKLAHOMA

LOCATION.--Lat 35°51'15", long 95°13'45", in sec.19, T.16 N., R.19 E., Cherokee County, at Fort Gibson Dam, 5 mi north of Fort Gibson, and at mile 7.7.

DRAINAGE AREA.--12,492 mi^2.

Monthly and yearly discharge

Month	Total (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	57,192	1,844	113,400
November	783,478	26,116	1,554,000
December	228,992	7,387	454,200
January	272,378	8,786	540,200
February	158,672	5,667	314,700
March	246,300	7,945	488,500
April	376,173	12,539	746,100
May	1,346,980	43,451	2,672,000
June	1,396,267	46,542	2,769,000
July	833,028	26,872	1,652,000
August	188,330	6,075	373,500
September	19,643	655	38,980
Water year 1995	5,907,433	16,185	11,720,000

ARKANSAS RIVER SUBBASIN

07194500 ARKANSAS RIVER NEAR MUSKOGEE, OKLAHOMA

LOCATION.--Lat 35°46'10", long 95°17'55", in NW1/4, sec.21, T.15 N., R.19 E., Muskogee County, at bridge on U.S. Highway 62, 1.7 mi downstream from Neosho River, 3.5 mi northeast of Muskogee.

DRAINAGE AREA.--96,674 mi^2 of which 12,541 mi^2 probably is noncontributing.

REMARKS.--Gaging station discontinued Sept. 30, 1970, due to backwater conditions. Streamflow computed by combining flow at station 07165570 Arkansas River near Haskell, station 07176000 Verdigris River near Claremore, station 07178200 Bird Creek at State Highway 266 near Catoosa, station 07193000 Fort Gibson Lake Discharge near Fort Gibson, and estimating the flow for the ungaged intervening drainage area.

Monthly and yearly discharge

Month	Mean (ft^3/s)	Runoff (acre-feet)
October	4,407	271,000
November	46,347	2,758,000
December	20,151	1,239,000
January	13,820	849,800
February	10,026	556,800
March	32,274	1,984,000
April	32,495	1,934,000
May	107,015	6,580,000
June	161,550	9,613,000
July	86,647	5,328,000
August	46,796	2,877,000
September	10,115	601,900
Water year 1995	47,782	34,590,000

ILLINOIS RIVER SUBBASIN

07194800 ILLINOIS RIVER AT SAVOY, ARKANSAS

LOCATION.--Lat 36°06'11", long 94°20'39", 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.

AVERAGE DISCHARGE.--2 years (water years 1980, 86) 105 ft^3/s.

EXTREMES.--April 1979 to December 1981, October 1985 to September 1986, August to September 1995: maximum discharge 9,530 ft^3/s Nov. 19, 1985; minimum 1.6 ft^3/s Aug. 11, 1980.

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

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	---	---	---	---	---
November	---	---	---	---	---
December	---	---	---	---	---
January	---	---	---	---	---
February	---	---	---	---	---
March	---	---	---	---	---
April	---	---	---	---	---
May	---	---	---	---	---
June	---	---	---	---	---
July	---	---	---	---	---
August	---	---	---	---	---
September	345.9	24	8.3	11.5	686
Water year 1995	---	---	---	---	---

07194800 ILLINOIS RIVER AT SAVOY, ARKANSAS--CONTINUED

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

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUN 29.	1545	80513	81213	50	380	8.0	22.5	8.5	102	240
AUG 03.	1500	80513	81213	21	268	8.2	27.5	9.6	124	<3

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./ 100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./ 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 29.	1545	310	180	110	41	2.2	6.3	11	0.3	2.6
AUG 03.	1500	180	130	110	42	2.3	4.9	8	0.2	3.3

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 29.	1545	7.9	6.1	150	1.79	0.010	1.80	1.80	0.010
AUG 03.	1500	6.6	7.2	144	1.59	0.010	1.60	1.60	0.020

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 29.	1545	0.23	0.24	0.060	0.050	0.020	33	4.5	95
AUG 03.	1500	0.26	0.28	0.070	0.050	0.040	40	2.3	98

ILLINOIS RIVER SUBBASIN

07195000 OSAGE CREEK NEAR ELM SPRINGS, ARKANSAS

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.

AVERAGE DISCHARGE.--25 years (water years 1951-75), 115 ft^3/s.

EXTREMES.--Octber 1950 to September 1975, July to September 1995: maximum discharge 22,500 ft^3/s May 19, 1961; minimum 4.7 ft^3/s Sept. 4-6, 1954.

REMARKS.--Water-discharge records good. Low flow slightly regulated by operation of small lake at Cave Springs, and northwest Arkansas sewage treatment plant. Satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	---	---	---	---	---
November	---	---	---	---	---
December	---	---	---	---	---
January	---	---	---	---	---
February	---	---	---	---	---
March	---	---	---	---	---
April	---	---	---	---	---
May	---	---	---	---	---
June	---	---	---	---	---
July	---	---	---	---	---
August	2,688	124	62	86.7	5,330
September	2,380	215	53	79.3	4,720
Water year 1995	---	---	---	---	---

07195000 OSAGE CREEK NEAR ELM SPRINGS, ARKANSAS--CONTINUED

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

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
JUN 29.	1330	80513	81213	270	310	8.1	18.5	8.8	98	290
AUG 03.	1300	80513	81213	105	340	8.2	23.0	8.2	100	230

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 29.	1330	220	190	130	49	1.7	15	20	0.6	3.5
AUG 03.	1300	160	87	130	50	1.8	18	22	0.7	4.5

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 29.	1330	11	14	198	4.49	0.010	4.50	4.50	0.010
AUG 03.	1300	15	20	222	3.59	0.010	3.60	3.60	0.010

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JU 29.	1330	0.21	0.22	0.400	0.380	0.400	32	23	92
AUG 03.	1300	0.19	0.20	0.740	0.720	0.760	14	4.0	99

ILLINOIS RIVER SUBBASIN

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, ARKANSAS

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.

EXTREMES.--July to September 1995: maximum discharge during period 581 ft^3/s July 23, 24; gage height 5.14 ft; minimum 148 ft^3/s Sept. 5, 6.

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

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	---	---	---	---	---
November	---	---	---	---	---
December	---	---	---	---	---
January	---	---	---	---	---
February	---	---	---	---	---
March	---	---	---	---	---
April	---	---	---	---	---
May	---	---	---	---	---
June	---	---	---	---	---
July	---	---	---	---	---
August	6,572	293	162	212	13,040
September	5,466	410	150	182	10,840
Water year 1995	---	---	---	---	---

07195430 ILLINOIS RIVER NEAR SILOAM SPRINGS, ARKANSAS--CONTINUED

PERIOD OF RECORD.--June 1995 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUN 29.	0800	80513	81213	---	250	7.4	21.0	6.5	76	100
AUG 03.	0830	80513	81213	280	288	7.9	24.5	6.4	79	50

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./ 100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./ 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 29.	0800	K49	110	110	43	1.8	13	19	0.5	3.0
AUG 03.	0830	40	92	120	44	1.9	9.2	14	0.4	3.4

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 29.	0800	8.3	9.3	162	2.79	0.010	2.80	2.80	0.010
AUG 03.	0830	8.5	11	166	2.29	0.010	2.30	2.30	0.010

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 29.	0800	0.21	0.22	0.170	0.110	0.120	59	---	99
AUG 03.	0830	0.19	0.20	0.190	0.190	0.190	48	36	93

ILLINOIS RIVER SUBBASIN

07195500 ILLINOIS RIVER NEAR WATTS, OKLAHOMA

LOCATION.--Lat 36°07'48", long 94°34'19", in NW1/4NE1/4, sec.18, T.19 N., R.26 E., Adair County, near right bank on downstream side of bridge on U.S. Highway 59, 1.5 mi north of Watts, 4.5 mi downstream from Cincinnati Creek, and at mile 106.2.

DRAINAGE AREA.--635 mi^2.

AVERAGE DISCHARGE.--40 years, 632 ft^3/s.

EXTREMES.--August 1955 to current year: Maximum discharge 68,000 ft^3/s July 25, 1960; minimum 8.6 ft^3/s Oct. 26, 1955, Sept. 19, Oct. 14, 1956.

REMARKS.--Records good. Since July 2, 1957, small diversion above station for municipal water supply for city of Siloam Springs, Arkansas. Satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	5,198	351	113	168	10,310
November	33,950	6,090	153	1,132	67,340
December	19,511	3,360	301	629	38,700
January	46,019	10,200	283	1,484	91,280
February	14,890	915	361	532	29,530
March	26,456	4,090	414	853	52,480
April	38,870	7,750	327	1,296	77,100
May	66,324	10,200	650	2,139	131,600
June	48,460	10,500	523	1,615	96,120
July	12,891	577	306	416	25,570
August	6,787	299	163	219	13,460
September	5,508	377	149	184	10,930
Water year 1995	324,864	10,500	113	890	644,400

07195500 ILLINOIS RIVER NEAR WATTS, OKLAHOMA--CONTINUED

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

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
OCT											
27...	1100	8.00	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1101	18.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1102	28.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1103	38.0	14.0	751	1028	1028	169	2.08	329	10.0	8.1
27...	1104	48.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1105	58.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1106	68.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1107	78.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1108	88.0	14.0	751	1028	1028	169	2.08	329	10.1	8.1
27...	1109	98.0	14.0	751	1028	1028	169	2.08	329	10.0	8.1
27...	1110	108	14.0	751	1028	1028	169	2.08	329	10.0	8.1

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT												
27...	1200	1028	80020	169	329	8.1	16.0	14.0	---	751	10.1	100
DEC												
20...	1700	1028	80020	449	275	8.0	7.0	10.0	3.3	748	10.8	98
FEB												
16...	1600	1028	80020	531	288	8.1	5.0	7.5	---	755	12.5	105
MAY												
09...	1000	1028	80020	10200	144	7.8	19.0	16.0	41	740	8.8	92
JUN												
28...	1700	1028	80020	519	265	7.9	30.0	22.5	13	750	8.6	101
JUL												
31...	1430	1028	80020	292	288	7.9	28.5	27.5	---	750	8.0	103

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT												
27...	---	---	---	---	---	---	---	---	---	129	0	106
DEC												
20...	---	120	12	43	1.9	7.0	11	0.3	2.3	126	0	103
FEB												
16...	---	---	---	---	---	---	---	---	---	114	0	94
MAY												
09...	1.6	62	12	22	1.6	2.8	8	0.2	3.3	60	0	49
JUN												
28...	---	110	0	42	1.8	6.8	11	0.3	2.8	137	0	112
JUL												
31...	---	---	---	---	---	---	---	---	---	125	0	103

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3) (71851)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT												
27...	---	---	---	---	---	---	---	---	1.40	---	---	<0.010
DEC												
20...	10	9.6	<0.10	6.7	160	154	0.22	194	2.60	---	---	<0.010
FEB												
16...	---	---	---	---	---	---	---	---	3.00	---	---	<0.010
MAY												
09...	5.5	3.1	<0.10	7.6	94	82	0.13	2590	1.18	1.18	5.2	0.020
JUN												
28...	6.8	8.6	<0.10	6.7	157	154	0.21	220	2.50	---	---	<0.010
JUL												
31...	---	---	---	---	---	---	---	---	2.19	2.19	9.7	0.010

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT											
27...	---	1.40	1.40	0.020	0.03	---	---	<0.20	<0.20	---	0.230
DEC											
20...	---	2.60	2.60	<0.015	---	---	---	<0.20	<0.20	---	0.080
FEB											
16...	---	3.00	3.00	<0.015	---	---	---	<0.20	<0.20	---	0.170
MAY											
09...	0.07	1.20	1.20	0.040	0.05	0.76	0.36	0.80	0.40	2.0	0.320
JUN											
28...	---	2.50	2.50	0.020	0.03	0.18	---	0.20	<0.20	2.7	0.110
JUL											
31...	0.03	2.20	2.20	0.020	0.03	0.18	---	0.20	<0.20	2.4	0.150

07195500 ILLINOIS RIVER NEAR WATTS, OKLAHOMA--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	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)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
OCT											
27...	0.190	0.200	0.61	---	---	---	---	---	---	---	---
DEC											
20...	0.070	0.070	0.21	<1	39	<0.5	10	<1.0	<5	<3	<10
FEB											
16...	0.140	0.140	0.43	---	---	---	---	---	---	---	---
MAY											
09...	0.180	0.170	0.52	<1	36	<0.5	10	3.0	<5	<3	<10
JUN											
28...	0.090	0.100	0.31	<1	49	<0.5	40	<1.0	<5	<3	<10
JUL											
31...	0.150	0.150	0.46	---	---	---	---	---	---	---	---

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
27...	---	---	---	---	---	---	---	---	---	---	---
DEC											
20...	4	<10	<4	43	<0.1	<10	<10	<1.0	47	<6	<3
FEB											
16...	---	---	---	---	---	---	---	---	---	---	---
MAY											
09...	170	20	<4	17	<0.1	<10	<10	<1.0	34	<6	5
JUN											
28...	11	<10	<4	38	<0.1	<10	<10	<1.0	48	<6	4
JUL											
31...	---	---	---	---	---	---	---	---	---	---	---

DATE	PCB, TOTAL (UG/L) (39516)	PCN'S UNFILT RECOVER (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	CHLOR-PYRIFOS TOTAL RECOVER (UG/L) (38932)	2,4-D, TOTAL (UG/L) (39730)	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	DEF TOTAL (UG/L) (39040)	DI-AZINON, TOTAL (UG/L) (39570)
MAY											
09...	<0.100	<0.100	<0.010	<0.100	<0.010	0.030	<0.010	<0.010	<0.010	<0.010	0.010
JUN											
28...	<0.100	<0.100	<0.010	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

DATE	DI-ELDRIN TOTAL (UG/L) (39380)	DISUL-FOTON UNFILT RECOVER (UG/L) (39011)	2, 4-DP TOTAL (UG/L) (82183)	ENDO-SULFAN, I TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	MALA-THION, TOTAL (UG/L) (39530)
MAY											
09...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
JUN											
28...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

DATE	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	METHYL PARA-THION, TOTAL (UG/L) (39600)	MIREX, TOTAL (UG/L) (39755)	PARA-THION, TOTAL (UG/L) (39540)	PER-THANE TOTAL (UG/L) (39034)	PHORATE TOTAL (UG/L) (39023)	SILVEX, TOTAL (UG/L) (39760)	2,4,5-T TOTAL (UG/L) (39740)	TOX-APHENE, TOTAL (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)
MAY										
09...	<0.010	<0.010	<0.010	<0.010	<0.100	<0.010	<0.010	<0.010	<1.00	<0.010
JUN										
28...	<0.010	<0.010	<0.010	<0.010	<0.100	<0.010	<0.010	<0.010	<1.00	<0.010

ILLINOIS RIVER SUBBASIN

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, on left bank 180 ft downstream from county bridge, 2.5 mi from Arkansas-Oklahoma State line, northwest of Siloam Springs, Oklahoma.

DRAINAGE AREA.--59.8 mi^2.

AVERAGE DISCHARGE.--16 years, 51.3 ft^3/s.

EXTREMES.--June 1979 to current year: Maximum discharge 6,650 ft^3/s May 3, 1990; minimum daily 0.40 ft^3/s Aug. 7, 1980.

REMARKS.--Records good except for periods of estimated daily discharges, which are fair. Flow is partially regulated by Lake Siloam Springs, 4.5 mi upstream, and sewage discharge into Flint Creek from city of Gentry.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	477	22	12	15.4	946
November	2,615	454	14	87.2	5,190
December	1,557	111	35	50.2	3,090
January	2,590	338	29	83.5	5,140
February	1,387	70	39	49.5	2,750
March	1,809	150	31	58.4	3,590
April	2,267	228	27	75.6	4,500
May	4,844	822	73	156	9,610
June	5,062	361	75	169	10,040
July	1,704	90	38	55.0	3,380
August	745	38	12	24.0	1,480
September	416.1	31	9.1	13.9	825
Water year 1995	25,473.1	822	9.1	69.8	50,530

07195855 FLINT CREEK NEAR WEST SILOAM SPRINGS, OKLAHOMA--CONTINUED

PERIOD OF RECORD.--June to September 1979, October 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUN 29.	0930	80513	81213	76	262	7.5	22.0	6.6	78	70
AUG 03.	1030	80513	81213	37	212	7.7	25.0	7.0	88	57

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./ 100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./ 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 29.	0930	70	180	110	42	1.7	17	24	0.7	2.8
AUG 03.	1030	42	170	96	35	2.1	9.3	17	0.4	3.5

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 29.	0930	8.3	9.1	162	2.79	0.010	2.80	2.80	0.010
AUG 03.	1030	17	8.5	142	0.970	0.010	0.980	0.980	0.010

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 29.	0930	---	<0.20	0.100	0.090	0.120	46	9.4	90
AUG 03.	1030	0.19	0.20	0.040	0.020	0.020	29	2.9	99

ILLINOIS RIVER SUBBASIN

07196000 FLINT CREEK NEAR KANSAS, OKLAHOMA

LOCATION.--Lat 36°11'11", long 94°42'24", in SW1/4NW1/4, sec. 25, T.20 N., R.24 E., Deleware County, Hydrologic Unit 11110103, at U.S. Highway 412 bridge, 6.0 mi southeast of Kansas, and at mi 2.2.

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD.--Water years 1955-61, 1963, 1975-80, July 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
DEC 1994											
07...	1321	4.00	12.5	753	1028	1028	73	6.42	251	10.7	8.4
07...	1322	8.00	12.5	753	1028	1028	73	6.42	251	10.7	8.4
07...	1323	12.0	12.5	753	1028	1028	73	6.44	251	10.7	8.4
07...	1324	16.0	12.5	753	1028	1028	73	6.42	251	10.7	8.4
07...	1325	20.0	12.5	753	1028	1028	73	6.42	251	10.7	8.4
07...	1326	24.0	12.5	753	1028	1028	73	6.42	251	10.7	8.4
07...	1327	28.0	12.5	753	1028	1028	73	6.42	251	10.7	8.4
07...	1328	32.0	12.5	753	1028	1028	73	6.42	251	10.6	8.4
07...	1329	36.0	12.5	753	1028	1028	73	6.42	251	10.6	8.4

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT 1994										
27...	1600	1028	80020	31	320	8.3	15.0	17.0	750	11.6
NOV										
05...	1430	1028	80020	2710	132	7.3	10.0	15.5	740	9.3
DEC										
07...	1345	1028	80020	73	251	8.4	7.0	12.5	753	10.7
FEB 1995										
16...	1350	1028	80020	99	251	8.2	5.0	8.0	750	12.7
MAY										
08...	1700	1028	80020	2630	134	7.7	22.5	16.0	740	8.6
JUN										
29...	1430	1028	80020	126	240	7.8	25.0	22.0	750	8.8
JUL										
31...	1100	1028	80020	67	266	7.8	29.0	26.0	752	8.4

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	NITROGEN DISSOLVED (MG/L AS N) (00602)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT 1994										
27...	122	---	104	0	85	2.00	<0.010	2.00	2.00	<0.015
NOV										
05...	96	2.0	44	0	36	1.60	<0.010	1.60	1.60	0.020
DEC										
07...	102	---	89	0	73	1.50	<0.010	1.50	1.50	<0.015
FEB 1995										
16...	109	---	91	0	74	2.90	<0.010	2.90	2.90	<0.015
MAY										
08...	90	1.7	57	0	47	1.20	<0.010	1.20	1.20	0.040
JUN										
29...	102	---	97	0	80	1.90	<0.010	1.90	1.90	0.020
JUL										
31...	105	---	104	0	86	1.70	<0.010	1.70	1.70	0.020

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
OCT 1994										
27...	---	---	---	<0.20	<0.20	---	0.090	0.100	0.090	0.28
NOV										
05...	0.03	0.48	0.38	0.50	0.40	2.1	0.350	0.320	0.310	0.95
DEC										
07...	---	---	---	<0.20	<0.20	---	0.090	0.080	0.080	0.25
FEB 1995										
16...	---	---	---	<0.20	<0.20	---	0.100	0.070	0.080	0.25
MAY										
08...	0.05	1.2	0.46	1.2	0.50	2.4	0.460	0.270	0.260	0.80
JUN										
29...	0.03	---	---	<0.20	<0.20	---	0.090	0.080	0.080	0.25
JUL										
31...	0.03	---	---	<0.20	<0.20	---	0.090	0.080	0.100	0.31

ILLINOIS RIVER SUBBASIN

07196500 ILLINOIS RIVER NEAR TAHLEQUAH, OKLAHOMA

LOCATION.--Lat 35°55'22", long 94°55'24", in SE1/4NE1/4, sec.26, T.17 N., R.22 E., Cherokee County, Hydrologic Unit 11110103, near center of channel on downstream side of pier of bridge, 0.2 mi downstream from U.S. Highway 62, 2.2 mi northeast of Tahlequah, 6.5 mi upstream from Baron Fork, and at mile 55.8.

DRAINAGE AREA.--959 mi².

PERIOD OF RECORD.--Water years 1960-61, 1975-79, 1989 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT 1994												
26...	1400	1028	80020	345	287	8.1	12.5	16.0	---	762	11.0	112
NOV												
07...	1145	1028	80020	5050	181	7.7	19.0	16.0	48	761	8.3	84
30...	1400	1028	80020	875	242	8.1	14.0	10.0	---	764	11.8	104
DEC												
20...	1230	1028	80020	902	241	8.0	15.0	10.0	1.8	756	10.9	97
JAN 1995												
25...	1400	1028	80020	1650	208	8.0	11.5	7.0	---	762	11.8	97
FEB												
24...	1420	1028	80020	572	237	8.9	15.5	12.5	---	768	14.8	138
MAR												
28...	1345	1028	80020	891	243	8.4	13.0	14.5	---	762	12.0	118
APR												
12...	1220	1028	80020	2610	219	8.0	16.0	14.5	15	760	8.8	87
MAY												
16...	0845	1028	80020	1960	190	7.5	21.0	20.5	---	750	7.7	87
JUN												
27...	1430	1028	80020	915	217	8.6	29.5	24.0	2.3	758	11.1	133
JUL												
27...	1400	1028	80020	761	246	8.2	32.5	27.5	---	754	9.3	119
AUG												
24...	1430	1028	80020	259	264	8.1	31.5	30.0	---	762	10.0	133

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS./ 100 ML) (31673)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLVED FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
OCT 1994											
26...	---	120	---	150	110	15	42	2.0	11	17	0.5
NOV											
07...	2.0	920	1600	7700	75	18	27	1.7	4.6	11	0.2
30...	---	K9	K14	K4	100	12	37	1.9	6.4	12	0.3
DEC											
20...	---	31	K14	21	100	31	37	1.8	6.2	12	0.3
JAN 1995											
25...	---	21	K15	23	92	21	34	1.8	5.1	10	0.2
FEB											
24...	---	52	21	46	100	19	38	1.8	6.9	12	0.3
MAR											
28...	---	---	---	---	100	18	38	1.8	7.0	13	0.3
APR											
12...	2.0	1200	500	1800	92	7	34	1.7	5.9	12	0.3
MAY											
16...	---	230	630	320	79	10	29	1.6	4.2	10	0.2
JUN											
27...	---	41	210	43	92	15	34	1.7	5.5	11	0.2
JUL											
27...	---	160	230	170	100	20	38	1.8	7.1	13	0.3
AUG											
24...	---	270	530	270	100	2	38	1.9	8.3	14	0.4

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT 1994											
26...	3.4	120	0	99	11	13	<0.10	7.7	158	153	0.21
NOV											
07...	3.4	69	0	57	8.7	6.0	<0.10	9.4	113	103	0.15
30...	2.6	107	0	87	8.7	8.3	<0.10	7.6	140	134	0.19
DEC											
20...	2.3	84	0	69	9.9	8.4	<0.10	6.6	136	124	0.18
JAN 1995											
25...	2.3	87	0	71	9.1	6.7	<0.10	7.7	121	121	0.16
FEB											
24...	2.3	90	6	83	8.6	9.4	<0.10	1.4	131	126	0.18
MAR											
28...	2.8	99	2	84	8.8	8.9	<0.10	3.1	134	129	0.18
APR											
12...	2.8	104	0	85	7.6	8.1	0.10	6.1	126	125	0.17
MAY											
16...	3.0	84	0	69	6.6	5.0	<0.10	8.2	115	108	0.16
JUN											
27...	2.7	92	1	78	6.5	6.6	<0.10	5.7	130	116	0.18
JUL											
27...	2.7	100	0	82	7.9	9.0	<0.10	9.8	146	131	0.20
AUG											
24...	3.1	123	0	101	8.7	12	0.10	9.7	153	146	0.21

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	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 N) (00613)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 1994											
26...	147	0.810	---	---	<0.010	---	0.810	0.810	<0.015	---	---
NOV											
07...	1540	1.80	---	---	<0.010	---	1.80	1.80	<0.015	---	0.50
30...	331	2.00	---	---	<0.010	---	2.00	2.00	<0.015	---	---
DEC											
20...	331	2.19	2.19	9.7	0.010	0.03	2.20	2.20	<0.015	---	---
JAN 1995											
25...	539	2.50	---	---	<0.010	---	2.50	2.50	<0.015	---	---
FEB											
24...	202	1.59	1.59	7.0	0.010	0.03	1.60	1.60	<0.015	---	---
MAR											
28...	322	1.79	1.79	7.9	0.010	0.03	1.80	1.80	<0.015	---	0.20
APR											
12...	888	1.69	1.69	7.5	0.010	0.03	1.70	1.70	0.040	0.05	0.36
MAY											
16...	609	1.90	---	---	<0.010	---	1.90	1.90	<0.015	---	0.30
JUN											
27...	321	1.58	1.58	7.0	0.020	0.07	1.60	1.60	0.040	0.05	0.16
JUL											
27...	300	1.30	---	---	<0.010	---	1.30	1.30	<0.015	---	---
AUG											
24...	107	0.660	---	---	<0.010	---	0.660	0.660	0.020	0.03	---

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
OCT 1994											
26...	---	<0.20	<0.20	---	0.080	0.070	0.070	0.21	6	<1	<1
NOV											
07...	---	0.50	0.20	2.3	0.230	0.150	0.140	0.43	120	<1	<1
30...	---	<0.20	<0.20	---	0.070	0.060	0.070	0.21	---	---	---
DEC											
20...	---	<0.20	<0.20	---	0.070	0.060	0.070	0.21	7	<1	<1
JAN 1995											
25...	---	<0.20	<0.20	---	0.070	0.050	0.060	0.18	---	---	---
FEB											
24...	---	<0.20	<0.20	---	0.040	0.030	0.030	0.09	7	<1	<1
MAR											
28...	---	0.20	<0.20	2.0	0.060	0.060	0.060	0.18	---	---	---
APR											
12...	0.26	0.40	0.30	2.1	0.140	0.100	0.110	0.34	30	<1	<1
MAY											
16...	---	0.30	<0.20	2.2	0.120	0.110	0.110	0.34	---	---	---
JUN											
27...	---	0.20	<0.20	1.8	0.060	0.060	0.050	0.15	10	<1	<1
JUL											
27...	---	<0.20	<0.20	---	0.070	0.060	0.080	0.25	---	---	---
AUG											
24...	---	<0.20	<0.20	---	0.080	0.060	0.070	0.21	6	<1	<1

DATE	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)	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)
OCT 1994											
26...	51	<1	---	<1.0	<1	<1	<1	6	<1	---	6
NOV											
07...	40	<1	20	<1.0	<1	<1	1	85	<1	<4	9
30...	---	---	---	---	---	---	---	11	---	---	3
DEC											
20...	42	<1	10	<1.0	1	<1	2	11	<1	<4	2
JAN 1995											
25...	---	---	---	---	---	---	---	18	---	---	3
FEB											
24...	35	<1	---	<1.0	1	<1	<1	10	<1	---	2
MAR											
28...	---	---	---	---	---	---	---	15	---	---	4
APR											
12...	40	<1	---	<1.0	3	<1	1	37	<1	---	6
MAY											
16...	---	---	---	---	---	---	---	76	---	---	6
JUN											
27...	45	<1	20	<1.0	<1	<1	2	10	<1	<4	2
JUL											
27...	---	---	---	---	---	---	---	4	---	---	4
AUG											
24...	48	<1	---	<1.0	<1	<1	1	<3	<1	---	6

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT 1994											
26...	---	<1	2	<1	<1.0	---	---	3	<1.0	1.0	0.20
NOV											
07...	<0.1	<1	1	<1	<1.0	37	<6	3	<1.0	3.5	1.4
30...	---	---	---	---	---	---	---	---	---	0.90	0.20
DEC											
20...	<0.1	<1	3	<1	<1.0	45	<6	3	<1.0	1.0	0.10
JAN 1995											
25...	---	---	---	---	---	---	---	---	---	1.5	0.30
FEB											
24...	---	<1	1	<1	<1.0	---	---	2	<1.0	1.3	0.20
MAR											
28...	---	---	---	---	---	---	---	---	---	1.6	0.50
APR											
12...	<0.1	<1	2	<1	<1.0	---	---	3	<1.0	2.6	0.90
MAY											
16...	---	---	---	---	---	---	---	---	---	2.1	0.60
JUN											
27...	<0.1	<1	7	<1	<1.0	46	<6	1	<1.0	1.3	0.40
JUL											
27...	---	---	---	---	---	---	---	---	---	2.1	0.20
AUG											
24...	---	<1	1	<2	<1.0	---	---	<1	<1.0	0.90	0.30

PESTICIDE ANALYSIS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS TOTAL RECOVER (UG/L) (38932)
APR											
12.	---	<0.015	<0.008	0.014	0.010	E0.010	<0.013	<0.008	<0.007	<0.010	---
MAY											
16.	---	<0.007	<0.002	0.017	E0.012	E0.010	<0.004	<0.003	<0.002	<0.006	---
JUN											
27.	---	<0.007	<0.002	0.020	0.024	E0.008	<0.004	<0.003	<0.002	<0.006	<0.020
JUL											
27.	---	---	---	---	---	---	---	---	---	---	<0.010

DATE	TIME	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	DISUL-FOTON UNFILT RECOVER (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	PER-THANE TOTAL (UG/L) (39034)	DEF TOTAL (UG/L) (39040)	PCNS UNFILT RECOVER (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	LINDANE DIS-SOLVED (UG/L) (39341)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)
APR											
12.	---	<0.036	---	---	---	---	---	---	---	<0.011	---
MAY											
16.	---	<0.004	---	---	---	---	---	---	---	<0.004	---
JUN											
27.	---	<0.004	<0.020	<0.020	<0.100	<0.020	<0.100	<0.010	<0.010	<0.004	<0.100
JUL											
27.	---	---	<0.010	<0.010	<0.100	<0.010	<0.100	<0.010	<0.010	---	<0.100

DATE	TIME	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	ENDO-SULFAN, I TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX-APHENE, TOTAL (UG/L) (39400)	HEPTA-CHLOR, TOTAL (UG/L) (39410)
APR											
12.	---	---	---	---	---	<0.008	---	---	---	---	---
MAY											
16.	---	---	---	---	---	<0.001	---	---	---	---	---
JUN											
27.	---	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.020	<1.00	<0.010
JUL											
27.	---	<0.010	<0.010	<0.010	<0.010	---	<0.010	<0.010	<0.010	<1.00	<0.010

DATE	TIME	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)	MALA-THION, TOTAL (UG/L) (39530)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, TOTAL (UG/L) (39540)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, TOTAL (UG/L) (39570)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
APR											
12.	---	<0.009	---	---	---	---	<0.014	---	<0.022	---	<0.008
MAY											
16.	---	<0.002	---	---	---	---	<0.005	---	<0.004	---	0.017
JUN											
27.	---	<0.002	<0.010	<0.010	<0.100	<0.020	<0.005	<0.020	<0.004	<0.020	<0.002
JUL											
27.	---	---	<0.010	<0.010	<0.100	<0.010	---	<0.010	---	<0.010	---

DATE	TIME	METHYL PARA-THION, TOTAL (UG/L) (39600)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	MIREX, TOTAL (UG/L) (39755)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI-THION (UG/L) (39786)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	2, 4-DP TOTAL (UG/L) (82183)
APR											
12.	---	---	0.049	---	---	---	---	---	<0.009	<0.009	---
MAY											
16.	---	---	0.043	---	---	---	---	---	<0.002	<0.002	---
JUN											
27.	---	<0.020	0.017	<0.010	<0.010	<0.010	<0.010	<0.020	<0.002	<0.002	<0.010
JUL											
27.	---	<0.010	---	<0.010	<0.010	<0.010	<0.010	<0.010	---	---	<0.010

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PESTICIDE ANALYSIS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
APR 12.	---	---	<0.012	<0.006	<0.012	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005
MAY 16.	---	---	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002
JUN 27.	---	<0.020	<0.004	<0.003	<0.002	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002
JUL 27.	---	<0.010	---	---	---	---	---	---	---	---	---

DATE	TIME	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)
APR 12.	---	<0.009	E0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008
MAY 16.	---	<0.004	0.023	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001
JUN 27.	---	<0.004	0.011	<0.004	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001

DATE	TIME	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 12.	---	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.006	<0.038	<0.016
MAY 16.	---	<0.004	E0.044	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JUN 27.	---	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005

ILLINOIS RIVER SUBBASIN

07196900 BARON FORK AT DUTCH MILLS, ARKANSAS

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, 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.

AVERAGE DISCHARGE.--37 years, 45.0 ft^3/s.

EXTREMES.--April 1958 to current year: Maximum discharge 20,900 ft^3/s Nov. 18, 1985; no flow at times.

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

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	63.97	6.0	0.30	2.06	127
November	2,422.8	454	5.0	80.8	4,810
December	1,782	399	15	57.5	3,530
January	4,753	1,590	16	153	9,430
February	1,075	68	21	38.4	2,130
March	1,512	356	19	48.8	3,000
April	2,669	941	12	89.0	5,290
May	4,966	1,800	21	160	9,850
June	2,824	617	15	94.1	5,600
July	539.3	114	4.4	17.4	1,070
August	83.01	7.1	.67	2.68	165
September	259.83	21	.50	8.66	515
Water year 1995	22,949.91	1,800	.30	62.9	45,520

07196900 BARON FORK AT DUTCH MILLS, ARKANSAS--CONTINUED

PERIOD OF RECORD.--October 1960 to September 1961, October 1968 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
JUN 28.	1200	80513	81213	13	290	7.1	22.5	9.7	117	K350
AUG 02.	1330	80513	81213	5.0	322	7.9	25.0	5.2	66	180

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 28.	1200	K230	42	150	55	2.9	4.5	6	0.2	2.4
AUG 02.	1330	K60	K7	150	56	3.1	4.9	6	0.2	3.0

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 28.	1200	10	5.8	186	2.38	0.020	2.40	2.40	0.010
AUG 02.	1330	11	6.4	188	1.28	0.020	1.30	1.30	0.050

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 28.	1200	0.21	0.22	0.020	0.020	0.040	69	2.4	85
AUG 02.	1330	0.26	0.31	0.060	0.040	0.050	48	0.65	89

ILLINOIS RIVER SUBBASIN

07197000 BARON FORK AT ELDON, OKLAHOMA

LOCATION.--Lat 35°55'16", long 94°50'18", in NE1/4SE1/4, sec.27, T.17 N., R.23 E., Cherokee County, Hydrologic Unit 11110103, on downstream left abutment of bridge on State Highway 51, 0.4 mi southeast of Eldon, 6.0 mi downstream from Tyner Creek, and at mile 8.8.

DRAINAGE AREA.--307 mi^2.

PERIOD OF RECORD.--1948, 1958-60, 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, and dissolved oxygen were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
DEC 1994											
06...	1514	5.00	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1516	10.0	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1518	15.0	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1520	20.0	14.0	752	1028	1028	170	4.76	199	10.8	7.7
06...	1522	25.0	14.0	752	1028	1028	170	4.76	199	10.8	7.7
06...	1524	30.0	14.0	752	1028	1028	170	4.76	199	10.8	7.7
06...	1526	35.0	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1528	40.0	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1530	45.0	14.0	752	1028	1028	170	4.76	199	10.8	7.7
06...	1532	50.0	14.0	752	1028	1028	170	4.76	199	10.8	7.7
06...	1534	55.0	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1536	60.0	14.0	752	1028	1028	170	4.76	199	10.7	7.7
06...	1538	65.0	14.0	752	1028	1028	170	4.76	199	10.6	7.7

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT 1994												
27...	0830	1028	80020	48	209	7.7	0.5	15.0	---	759	8.9	89
DEC												
06...	1600	1028	80020	170	199	7.7	19.0	14.0	0.40	752	10.7	105
FEB 1995												
15...	1600	1028	80020	233	183	8.0	6.0	8.5	---	754	12.8	111
MAY												
08...	1430	1028	80020	17800	*101	7.5	21.5	15.5	310	745	8.5	87
15...	1530	1028	80020	624	167	7.9	29.5	20.0	---	754	8.7	97
JUN												
29...	1130	1028	80020	247	177	7.6	19.5	21.0	1.3	757	7.1	80
JUL												
27...	1100	1028	80020	599	188	7.6	30.0	24.0	---	754	7.7	93

*laboratory value instead of field value

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. 100 ML) (31673)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
OCT 1994												
27...	---	---	---	---	---	---	---	---	---	---	---	---
DEC												
06...	---	---	---	---	92	24	34	1.6	2.9	6	0.1	1.9
FEB 1995												
15...	---	---	---	---	---	---	---	---	---	---	---	---
MAY												
08...	0.93	---	---	---	42	4	15	1.1	1.4	6	0.1	2.6
15...	---	37	97	37	76	11	28	1.4	2.4	6	0.1	1.8
JUN												
29...	---	---	---	---	81	13	30	1.4	2.4	6	0.1	1.9
JUL												
27...	---	---	---	---	---	---	---	---	---	---	---	---

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT 1994												
27...	102	0	84	---	---	---	---	---	---	---	---	0.450
DEC												
06...	82	0	67	6.5	4.9	<0.10	7.2	116	129	0.16	53.2	6.60
FEB 1995												
15...	81	0	66	---	---	---	---	---	---	---	---	1.60
MAY												
08...	46	0	37	3.6	1.6	<0.10	8.0	70	59	0.09	3360	0.430
15...	79	0	65	5.1	3.1	<0.10	8.0	99	95	0.13	167	1.50
JUN												
29...	82	0	68	4.0	3.5	<0.10	7.0	104	95	0.14	69.4	0.990
JUL												
27...	86	0	70	---	---	---	---	---	---	---	---	1.10

ILLINOIS RIVER SUBBASIN

07197000 BARON FORK AT ELDON, OKLAHOMA--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
OCT 1994												
27...	<0.010	0.450	0.450	<0.015	---	---	---	<0.20	<0.20	---	0.010	0.020
DEC												
06...	<0.010	6.60	6.60	<0.015	---	---	---	<0.20	<0.20	---	0.030	0.030
FEB 1995												
15...	<0.010	1.60	1.60	<0.015	---	---	---	<0.20	<0.20	---	<0.010	0.020
MAY												
08...	<0.010	0.430	0.430	0.040	0.05	2.5	0.46	2.5	0.50	2.9	0.960	0.140
15...	<0.010	1.50	1.50	<0.015	---	---	---	<0.20	<0.20	---	0.030	0.030
JUN												
29...	<0.010	0.990	0.990	0.040	0.05	---	---	<0.20	<0.20	---	0.030	0.020
JUL												
27...	<0.010	1.10	1.10	<0.015	---	---	---	<0.20	<0.20	---	0.030	0.030

DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	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 1994												
27...	0.020	0.06	---	---	---	---	---	---	---	---	---	---
DEC												
06...	0.020	0.06	<1	32	<0.5	<10	<1.0	<5	<3	<10	<3	10
FEB 1995												
15...	0.020	0.06	---	---	---	---	---	---	---	---	---	---
MAY												
08...	0.130	0.40	<1	24	<0.5	10	<1.0	<5	<3	<10	430	<10
15...	0.030	0.09	---	---	---	---	---	---	---	---	10	---
JUN												
29...	0.020	0.06	<1	33	<0.5	20	<1.0	<5	<3	<10	10	<10
JUL												
27...	0.030	0.09	---	---	---	---	---	---	---	---	---	---

DATE	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	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)	CARBON, CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
OCT 1994											
27...	---	---	---	---	---	---	---	---	---	---	---
DEC											
06...	<4	1	<0.1	10	<10	<1.0	42	<6	6	---	---
FEB 1995											
15...	---	---	---	---	---	---	---	---	---	---	---
MAY											
08...	6	23	<0.1	<10	<10	<1.0	21	<6	6	---	---
15...	---	7	---	---	---	---	---	---	---	1.0	0.20
JUN											
29...	<4	8	<0.1	<10	<10	2.0	37	<6	<3	---	---
JUL											
27...	---	---	---	---	---	---	---	---	---	---	---

DATE	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	BENATRAZINE, WATER, DISS, REC (UG/L) (39632)	CARFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	ETHOEPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)
MAY 1995										
15...	<0.009	E0.012	<0.013	<0.046	<0.005	<0.004	<0.008	<0.008	<0.005	<0.012

DATE	ALPHA BHC DISSOLVED (UG/L) (34253)	LINDANE DISSOLVED (UG/L) (39341)	MALATHION, DISSOLVED (UG/L) (39532)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	PARATHION, DISSOLVED (UG/L) (39542)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
MAY 1995										
15...	<0.007	<0.011	<0.014	<0.009	<0.007	<0.022	<0.018	<0.011	<0.009	<0.016

DATE	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUTHYLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	P,P' DDE DISSOLV (UG/L) (34653)
MAY 1995										
15...	<0.008	<0.030	34.7	<0.008	E0.008	<0.038	<0.008	<0.013	<0.013	<0.010

ILLINOIS RIVER SUBBASIN

07197000 BARON FORK AT ELDON, OKLAHOMA--CONTINUED

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 1995										
15...	34.9	<0.006	<0.060	<0.013	<0.008	35.3	<0.039	<0.035	<0.012	<0.010

DATE	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 1995									
15...	<0.009	<0.016	<0.008	<0.015	<0.006	E0.010	<0.012	<0.008	<0.012

ILLINOIS RIVER SUBBASIN

07198000 ILLINOIS RIVER NEAR GORE, OKLAHOMA

PERIOD OF RECORD.--Water years 1948, 1952, 1954 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1947 to September 1948, October 1953 to September 1963.
WATER TEMPERATURE: October 1947 to September 1948, October 1953 to September 1963, October 1992 to September 1993.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field. Prior to October 1992 records of continuous water temperature were collected 4.2 mi upstream.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily 396 microsiemens, Aug. 12, 1956; minimum daily 123 microsiemens, July 14, 1957.
WATER TEMPERATURE: Maximum 24.0°C, Sept. 28-30, Oct. 1, 2, 1958, Aug. 29, 1993; minimum 4.5°C several days in winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum 22.0°C, Aug. 14, 31, Sept. 17; minimum 5.0°C, Jan. 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
AUG											
16...	0827	10.0	20.0	753	1028	1028	1480	9.89	208	4.2	7.2
16...	0834	20.0	19.0	753	1028	1028	1480	9.89	197	4.5	7.3
16...	0838	30.0	19.0	753	1028	1028	1480	9.89	196	4.6	7.3
16...	0842	40.0	19.0	753	1028	1028	1480	9.89	201	4.6	7.3
16...	0846	50.0	19.0	753	1028	1028	1480	9.89	195	4.6	7.3
16...	0850	60.0	19.0	753	1028	1028	1480	9.89	196	4.6	7.3
16...	0854	70.0	19.0	753	1028	1028	1480	9.89	195	4.6	7.3
16...	0858	80.0	19.0	753	1028	1028	1480	9.89	196	4.6	7.4
16...	0902	90.0	19.0	753	1028	1028	1480	9.89	211	4.6	7.4
16...	0906	100	19.5	753	1028	1028	1480	9.89	203	4.6	7.4
16...	0910	110	19.5	753	1028	1028	1480	9.89	202	4.6	7.4
16...	0914	120	19.5	753	1028	1028	1480	9.89	196	4.6	7.4
16...	0920	130	19.5	753	1028	1028	1480	9.89	196	4.6	7.3

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT										
18...	1040	1028	80020	25	287	7.7	22.5	16.5	1.2	752
DEC										
07...	1645	1028	80020	3800	191	8.0	8.5	13.5	---	760
FEB										
13...	1630	1028	80020	3790	199	8.1	2.5	7.5	1.3	760
APR										
04...	0900	1028	80020	1690	192	8.0	14.5	8.5	---	758
MAY										
10...	1000	1028	80020	3760	195	7.7	18.0	12.0	1.5	752
JUN										
21...	1330	1028	80020	3020	191	7.5	31.0	17.5	---	755

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	NITROGEN DISSOLVED (MG/L AS N) (00602)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)
OCT										
18...	6.7	70	0.85	110	19	39	2.3	16	24	0.7
DEC										
07...	8.4	81	---	---	---	---	---	---	---	---
FEB										
13...	11.2	94	---	79	4	29	1.6	4.5	11	0.2
APR										
04...	10.8	93	---	---	---	---	---	---	---	---
MAY										
10...	7.8	74	1.3	84	10	31	1.6	4.5	10	0.2
JUN										
21...	5.1	54	---	---	---	---	---	---	---	---

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)
OCT										
18...	2.5	107	0	88	7.0	29	<0.10	158	151	0.21
DEC										
07...	---	82	0	67	---	---	---	---	---	---
FEB										
13...	2.4	92	0	75	7.2	6.2	<0.10	104	99	0.14
APR										
04...	---	91	0	74	---	---	---	---	---	---
MAY										
10...	2.2	90	0	74	7.0	6.1	<0.10	108	102	0.15
JUN										
21...	---	75	0	61	---	---	---	---	---	---

07198000 ILLINOIS RIVER NEAR GORE, OKLAHOMA--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	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 N) (00613)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)
OCT										
18...	10.7	0.520	0.520	2.3	0.030	0.10	0.550	0.550	0.160	0.21
DEC										
07...	---	0.360	0.360	1.6	0.010	0.03	0.370	0.370	<0.015	---
FEB										
13...	1060	0.590	---	---	<0.010	---	0.590	0.590	<0.015	---
APR										
04...	---	0.840	0.840	3.7	0.020	0.07	0.860	0.860	<0.015	---
MAY										
10...	1100	1.09	1.09	4.8	0.010	0.03	1.10	1.10	0.020	0.03
JUN										
21...	---	0.990	0.990	4.4	0.010	0.03	1.00	1.00	0.050	0.06

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)
OCT									
18...	0.24	0.14	0.40	0.30	0.95	0.030	0.030	0.020	0.06
DEC									
07...	---	---	<0.20	<0.20	---	0.020	0.030	0.020	0.06
FEB									
13...	---	---	<0.20	<0.20	---	<0.010	<0.010	<0.010	---
APR									
04...	---	---	<0.20	<0.20	---	<0.010	<0.010	<0.010	---
MAY									
10...	0.28	0.18	0.30	0.20	1.4	0.020	0.010	0.020	0.06
JUN									
21...	---	---	<0.20	<0.20	---	0.040	0.040	0.050	0.15

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.0	15.0	16.0	14.0	9.0	12.0	14.0	12.5	13.5	11.0	8.0	10.0
2	20.0	15.0	16.5	14.5	11.5	13.0	14.0	12.5	13.5	11.0	8.0	10.0
3	16.5	20.5	15.5	15.0	14.5	14.5	14.0	13.0	13.5	10.5	9.0	10.0
4	17.5	15.0	16.0	16.0	14.5	15.0	14.0	13.0	13.5	10.5	8.0	9.5
5	---	---	---	15.5	15.0	15.0	14.0	13.0	13.5	10.0	7.5	9.0
6	---	---	---	15.0	14.5	14.5	14.0	13.0	13.5	10.0	8.0	9.5
7	17.0	15.0	16.0	15.0	13.5	14.5	14.0	13.0	13.5	10.0	7.0	8.5
8	16.0	14.5	15.5	15.0	15.0	15.0	13.5	12.5	13.0	8.5	5.0	7.0
9	17.5	13.0	15.5	15.5	15.0	15.0	13.5	11.5	12.5	10.0	5.5	8.0
10	17.0	12.0	14.0	15.5	15.0	15.5	13.0	11.5	12.5	11.0	8.5	9.5
11	17.0	13.0	15.0	15.5	15.0	15.5	12.5	12.5	12.5	11.0	8.5	10.0
12	15.5	13.5	14.5	15.5	15.0	15.5	12.5	12.5	12.5	10.5	9.5	10.0
13	16.0	14.5	15.5	15.5	15.0	15.5	12.5	12.0	12.0	10.5	8.5	9.5
14	15.5	14.0	14.5	15.5	15.5	15.5	12.0	12.0	12.0	10.0	8.0	9.5
15	16.0	14.5	15.0	15.5	15.5	15.5	12.0	12.0	12.0	10.0	9.0	9.5
16	17.5	15.0	16.5	15.5	15.0	15.5	12.0	12.0	12.0	10.0	8.5	9.5
17	17.5	15.5	16.5	15.5	15.0	15.5	12.0	12.0	12.0	9.5	8.5	9.0
18	17.5	15.5	17.0	15.5	15.0	15.5	12.0	11.5	12.0	9.0	8.5	9.0
19	18.0	16.0	16.5	15.5	15.5	15.5	12.0	11.5	11.5	9.0	8.5	8.5
20	18.5	15.5	17.0	15.5	15.0	15.5	13.0	11.5	11.5	9.0	8.5	8.5
21	17.5	15.5	16.5	15.5	15.0	15.0	13.0	11.5	12.0	8.5	8.5	8.5
22	17.5	15.5	16.0	15.0	15.0	15.0	12.5	11.0	11.5	8.5	8.5	8.5
23	18.0	13.5	15.5	15.0	14.5	15.0	12.5	10.5	11.5	8.5	8.0	8.5
24	17.0	14.0	15.0	15.0	13.5	14.5	12.0	10.0	11.0	8.5	8.0	8.5
25	16.0	13.5	15.0	14.5	14.0	14.5	11.5	10.0	11.0	8.5	8.0	8.5
26	15.0	12.5	14.5	14.5	14.0	14.5	11.5	9.5	11.0	10.0	8.0	8.5
27	15.0	11.5	14.0	15.0	14.5	14.5	11.5	9.5	10.5	10.5	8.0	9.0
28	15.5	11.0	13.0	14.5	12.5	14.0	11.5	10.5	11.0	10.5	8.5	9.0
29	16.5	10.5	13.5	14.5	13.5	14.0	11.5	10.0	10.5	10.0	8.0	8.5
30	14.5	12.0	14.0	14.0	13.0	14.0	11.5	9.5	10.5	10.0	8.0	8.5
31	14.5	11.0	13.0	---	---	---	11.0	10.0	10.5	10.0	7.5	8.5
MONTH	---	---	---	16.0	9.0	14.8	14.0	9.5	12.0	11.0	5.0	9.0

07198000 ILLINOIS RIVER NEAR GORE, OKLAHOMA--CONTINUED

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.5	7.5	8.5	9.5	7.0	8.5	10.0	8.5	9.0	10.5	10.5	10.5
2	9.5	8.0	8.5	9.5	6.0	7.5	10.0	8.0	9.0	11.0	10.5	10.5
3	9.5	8.0	8.5	7.5	7.5	7.5	10.0	8.0	9.0	11.0	10.5	10.5
4	9.5	7.0	8.5	9.0	7.0	8.0	10.0	8.5	9.0	11.0	10.5	11.0
5	9.5	7.0	8.5	9.0	7.5	8.0	10.5	8.5	9.5	11.0	10.5	11.0
6	9.0	7.0	8.0	9.0	7.5	8.5	10.5	9.0	9.5	12.5	11.0	11.5
7	8.0	7.5	8.0	9.0	7.0	7.5	11.0	8.5	10.0	13.5	12.0	12.0
8	8.0	7.5	7.5	7.5	7.0	7.0	13.5	10.0	12.0	14.5	13.0	13.5
9	8.0	7.5	7.5	7.5	7.0	7.0	17.0	13.5	15.0	14.5	12.0	13.0
10	8.0	7.5	7.5	8.0	7.0	7.0	16.5	10.0	13.0	12.0	11.5	12.0
11	8.0	7.5	7.5	7.5	7.0	7.5	11.5	9.5	10.5	12.0	11.5	12.0
12	7.5	7.0	7.5	7.5	7.0	7.5	11.5	9.0	9.5	12.0	11.5	12.0
13	7.5	7.0	7.0	7.5	7.0	7.5	9.5	9.0	9.0	12.0	11.5	12.0
14	7.0	7.0	7.0	8.0	7.5	7.5	9.5	9.0	9.0	12.5	12.0	12.0
15	7.0	7.0	7.0	8.0	7.5	8.0	9.0	9.0	9.0	13.0	12.0	12.5
16	7.0	7.0	7.0	8.0	8.0	8.0	9.5	9.0	9.0	13.0	12.5	13.0
17	10.0	7.0	7.5	10.5	7.5	9.0	11.5	9.0	9.5	13.0	13.0	13.0
18	10.0	7.0	8.0	11.5	9.5	10.5	11.5	9.5	10.5	13.5	13.0	13.0
19	9.0	7.0	8.0	12.5	8.5	10.5	11.5	9.0	10.0	14.0	13.5	13.5
20	9.0	7.0	8.0	11.0	8.0	9.0	11.5	9.5	10.5	14.0	13.5	14.0
21	9.0	7.0	8.5	10.5	8.0	9.0	11.5	9.5	10.0	14.0	14.0	14.0
22	9.0	8.0	8.5	10.0	8.0	9.0	10.0	9.5	10.0	14.5	14.0	14.0
23	9.5	8.5	9.0	10.0	8.0	9.0	10.5	10.0	10.0	14.5	14.0	14.5
24	9.5	8.0	9.0	10.0	8.0	8.5	10.0	9.5	10.0	15.0	14.5	14.5
25	9.5	8.0	9.0	10.0	8.0	9.0	10.0	9.5	10.0	15.0	14.0	14.5
26	9.0	8.5	9.0	10.0	8.5	9.0	10.0	9.5	9.5	14.5	14.0	14.5
27	11.0	8.5	9.5	10.0	8.0	9.0	10.0	9.5	10.0	14.5	14.5	14.5
28	10.5	8.5	9.5	10.0	8.0	9.0	10.5	10.0	10.0	15.0	14.5	15.0
29	---	---	---	10.0	8.5	9.0	10.5	10.0	10.0	15.0	14.5	15.0
30	---	---	---	10.0	8.5	9.0	10.5	10.0	10.0	15.0	14.5	15.0
31	---	---	---	10.0	9.0	9.5	---	---	---	15.0	15.0	15.0
MONTH	11.0	7.0	8.1	12.5	6.0	8.4	17.0	8.0	10.0	15.0	10.5	13.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.5	15.0	15.0	16.5	16.0	16.0	18.0	17.5	17.5	20.5	19.5	20.0
2	15.0	14.5	15.0	16.5	16.0	16.0	18.0	17.5	18.0	20.0	19.5	19.5
3	15.5	14.5	15.0	16.5	16.0	16.0	18.0	17.5	18.0	20.0	19.0	19.5
4	16.0	14.5	15.0	16.5	16.0	16.5	18.5	17.5	18.0	20.5	19.0	19.5
5	17.0	15.0	15.5	16.5	16.0	16.5	18.0	17.5	18.0	21.5	19.5	20.0
6	16.0	15.0	15.5	16.5	16.0	16.5	18.0	18.0	18.0	21.0	19.5	20.0
7	16.0	15.0	15.5	16.5	16.0	16.5	18.5	18.0	18.0	21.0	19.5	20.0
8	16.5	15.0	15.5	17.0	16.5	16.5	19.0	18.0	18.0	20.0	19.0	19.0
9	17.0	15.5	16.0	17.0	16.5	16.5	18.5	18.0	18.0	19.0	18.0	18.5
10	18.5	16.5	17.5	17.0	16.5	17.0	18.5	18.0	18.0	20.0	17.5	18.5
11	17.0	16.0	16.5	17.5	17.0	17.0	18.5	18.0	18.5	19.5	18.5	19.0
12	16.5	16.0	16.0	17.5	17.0	17.5	18.5	18.0	18.0	19.5	18.5	19.0
13	19.5	16.0	16.5	17.5	17.5	17.5	18.5	18.0	18.0	20.5	18.5	19.5
14	19.5	16.5	17.0	17.5	17.0	17.5	22.0	18.0	19.5	21.5	19.0	20.0
15	20.5	17.0	17.5	17.5	17.5	17.5	19.5	18.5	19.0	---	---	---
16	20.0	17.5	18.0	18.0	17.5	17.5	19.0	18.5	18.5	19.5	19.0	19.0
17	20.0	17.5	18.0	17.5	17.0	17.5	20.5	18.0	19.0	22.0	19.0	20.0
18	20.5	17.5	18.0	17.5	17.0	17.5	19.5	19.0	19.0	21.5	19.5	20.0
19	18.5	16.0	17.5	17.5	17.5	17.5	19.0	18.5	18.5	20.0	18.5	19.0
20	17.0	16.0	16.5	17.5	17.0	17.5	19.0	18.5	19.0	19.0	18.0	18.5
21	16.5	16.0	16.5	17.5	17.5	17.5	20.5	18.0	19.0	19.0	18.0	18.5
22	16.5	16.0	16.0	18.0	16.5	17.5	19.5	18.5	19.0	18.0	16.0	17.5
23	17.0	16.0	16.5	19.0	17.5	18.0	20.5	18.5	19.0	18.0	15.5	17.0
24	16.5	16.0	16.0	19.5	17.5	18.0	19.5	18.5	19.0	18.0	16.0	17.0
25	16.5	16.0	16.0	18.0	17.5	18.0	19.5	18.5	19.0	18.0	16.5	17.5
26	16.0	16.0	16.0	17.5	17.0	17.5	19.5	18.5	19.0	18.0	17.0	18.0
27	16.0	15.5	16.0	18.0	17.5	17.5	20.5	18.5	19.0	19.0	17.5	18.0
28	16.5	16.0	16.0	18.5	17.5	17.5	20.5	19.0	19.5	18.5	18.0	18.5
29	16.5	16.0	16.0	18.0	17.5	17.5	21.5	19.0	20.0	19.0	18.0	18.5
30	16.5	16.0	16.0	18.0	17.5	17.5	21.5	19.5	20.5	20.5	18.0	19.0
31	---	---	---	18.0	17.5	17.5	22.0	19.5	20.5	---	---	---
MONTH	20.5	14.5	16.3	19.5	16.0	17.2	22.0	17.5	18.7	---	---	---

ARKANSAS RIVER SUBBASIN

07245000 CANADIAN RIVER NEAR WHITEFIELD, OKLAHOMA

LOCATION.--Lat 35°15'50", long 95°14'21", in SE1/4SE1/4, sec.12, T.9 N., R.19 E., Haskell County, on left downstream ban at end of bridge, on State Highway 2, 0.8 mi north of Whitefield, 5.5 mi upstream from Taleka (Snake) Creek, 8.2 m downstream from Eufaula Dam, and at mile 18.8.

DRAINAGE AREA.--47,576 mi^2, of which 9,700 mi^2 is probably noncontributing.

AVERAGE DISCHARGE.--25 years (water years 1939-63), 6,005 ft^3/s; 28 years (water years 1968-95), 6,902 ft^3/s.

EXTREMES.--July 1938 to current year: Maximum discharge 281,000 ft^3/s May 10, 1943; minimum daily 0.4 ft^3/s Oct. 8, 1956

REMARKS.--Records fair. Prior to February 1964, occasional slight regulation by Conchas Lake in New Mexico and excep for 54 mi^2 of intervening area, completely regulated thereafter by Eufaula Lake. Satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	18,371	3,090	59	593	36,440
November	222,288	15,600	118	7,410	440,900
December	292,010	18,600	2,260	9,420	579,200
January	148,207	11,100	168	4,781	294,000
February	158,896	13,200	106	5,675	315,200
March	363,290	21,100	2,650	11,720	720,600
April	337,860	21,300	1,970	11,260	670,100
May	823,950	46,000	3,430	26,580	1,634,000
June	898,330	44,500	1,360	29,940	1,782,000
July	429,920	24,700	5,080	13,870	852,700
August	181,150	11,700	1,560	5,844	359,300
September	72,711	6,520	397	2,424	144,200
Water year 1995	3,946,983	46,000	59	10,810	7,829,000

POTEAU RIVER SUBBASIN

07247000 POTEAU RIVER AT CAUTHRON, ARKANSAS

LOCATION.--Lat 34°55'08", long 94°17'55", in NW1/4SW1/4, sec.16, T.3 N., R.31 W., Scott County, 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.

AVERAGE DISCHARGE.--Prior to regulation, 35 years (water years 1940-74), 218 ft^3/s; 21 years (water years 1975-95) 249 ft^3/s.

EXTREMES.--February 1939 to current year: Maximum discharge 32,200 ft^3/s May 20, 1960; no flow at times in most years.

REMARKS.--Records good. As of September 1974, flow from 92.2 mi^2 above this station is controlled by 16 floodwater-detention reservoirs with 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.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	322	40	1.2	10.4	639
November	33,363	8,180	12	1,112	66,180
December	17,466	3,080	97	563	34,640
January	21,953	4,690	114	708	43,540
February	2,626	254	35	93.8	5,210
March	4,566	737	33	147	9,060
April	10,689	3,500	43	356	21,200
May	23,079	8,540	38	744	45,780
June	5,316.7	733	7.3	177	10,550
July	524.23	134	.91	16.9	1,040
August	63.18	5.2	.26	2.04	125
September	91.76	52	.00	3.06	182
Water year 1995	120,059.87	8,540	.00	329	238,100

07247000 POTEAU RIVER AT CAUTHRON, ARKANSAS--CONTINUED

PERIOD OF RECORD.--Water years 1945-61, 1975-79, December 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
JUN											
23...	1006	6.00	27.0	746	1028	1028	12	3.79	70	7.8	7.0
23...	1008	10.0	27.0	746	1028	1028	12	3.79	70	7.8	7.0
23...	1012	14.0	27.0	746	1028	1028	12	3.79	70	7.8	7.0
23...	1015	18.0	27.0	746	1028	1028	12	3.79	70	7.8	7.0
23...	1018	22.0	27.0	746	1028	1028	12	3.79	70	7.8	7.0
23...	1022	26.0	27.0	746	1028	1028	12	3.79	70	7.9	7.0
23...	1026	30.0	27.0	746	1028	1028	12	3.79	71	8.0	7.0
23...	1029	34.0	27.0	746	1028	1028	12	3.79	71	8.0	7.0
23...	1033	38.0	27.0	746	1028	1028	12	3.79	71	8.1	7.0
23...	1037	42.0	27.0	746	1028	1028	12	3.79	71	8.1	7.0

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT									
18...	0950	1028	80020	12	*78	7.1	20.0	19.0	746
NOV									
30...	1500	1028	80020	231	54	7.0	15.0	10.5	758
JAN									
18...	1620	1028	80020	598	*45	6.8	6.5	9.5	745
MAR									
23...	0745	1028	80020	57	80	7.1	20.0	18.5	745
APR									
18...	1320	1028	80020	227	57	6.9	25.0	20.0	740
MAY									
24...	1330	1028	80020	66	53	6.8	28.5	24.0	746
JUN									
23...	1005	1028	80020	12	70	7.0	27.5	27.0	746
AUG									
16...	1215	1028	80020	0.45	172	7.2	33.5	30.5	743
SEP									
13...	0925	1028	80020	1.7	156	7.3	21.5	22.5	752

*laboratory value instead of field value

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
18...	5.9	65	25	0	20	---	---	<0.050	0.030
NOV									
30...	10.0	90	11	0	9	0.100	0.100	0.100	<0.015
JAN									
18...	10.3	92	9	0	7	0.110	0.110	0.110	0.040
MAR									
23...	8.0	87	15	0	13	0.230	0.230	0.230	0.020
APR									
18...	7.4	84	13	0	11	0.170	0.170	0.170	0.030
MAY									
24...	8.1	99	14	0	11	0.180	0.180	0.180	0.020
JUN									
23...	8.0	103	20	0	16	---	---	<0.050	0.030
AUG									
16...	6.9	95	46	0	38	0.050	0.050	0.050	0.060
SEP									
13...	4.2	49	47	0	39	---	---	<0.050	<0.015

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
18...	0.04	0.57	0.60	0.60	0.090	0.060	0.18	8	0.26
NOV									
30...	---	0.50	0.50	0.60	0.110	0.080	0.25	13	8.1
JAN									
18...	0.05	0.26	0.30	0.41	0.070	0.050	0.15	17	27
MAR									
23...	0.03	0.48	0.50	0.73	0.240	0.180	0.55	12	1.8
APR									
18...	0.04	0.37	0.40	0.57	0.110	0.080	0.25	23	14
MAY									
24...	0.03	0.28	0.30	0.48	0.140	0.120	0.37	13	2.3
JUN									
23...	0.04	0.47	0.50	0.50	0.190	0.110	0.34	15	0.49
AUG									
16...	0.08	0.74	0.80	0.85	0.170	0.150	0.46	19	0.02
SEP									
13...	---	0.70	0.70	0.70	0.100	0.030	0.09	13	0.06

07247000 POTEAU RIVER AT CAUTHRON, ARKANSAS--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUN 27.	1500	80513	81213	15	98	6.8	26.0	6.9	87	K20
AUG 01.	1400	80513	81213	5.1	152	8.9	29.5	9.7	130	---

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./ 100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./ 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 27.	1500	K37	120	17	2.7	2.5	14	59	1	2.9
AUG 01.	1400	---	160	23	3.4	3.6	24	61	2	8.2

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 27.	1500	7.5	6.6	60	0.220	0.010	0.230	0.230	0.010
AUG 01.	1400	14	24	106	0.920	0.020	0.940	0.940	0.020

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 27.	1500	0.44	0.45	0.190	0.140	0.130	35	1.4	92
AUG 01.	1400	0.98	1.0	0.560	0.400	0.430	---	---	---

POTEAU RIVER SUBBASIN

07247015 POTEAU RIVER AT LOVING, OKLAHOMA

LOCATION.--Lat 34°52'47", long 94°29'02", in SW1/4NW1/4, sec.29, T.5 N., R.27 E., LeFlore County, Hydrologic Unit 11110105, on right downstream bank of county road bridge, 0.6 mi northwest of Loving, 1.0 mi above Loving Creek, and at mile 93.6.

DRAINAGE AREA.--269 mi².

PERIOD OF RECORD.--Water years 1945-61, 1975-79, December 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
JUN											
23...	0855	10.0	26.0	745	1028	1028	27	9.00	73	5.6	6.8
23...	0858	15.0	26.0	745	1028	1028	27	9.00	73	5.6	6.8
23...	0903	20.0	26.0	745	1028	1028	27	9.00	73	5.8	6.8
23...	0906	25.0	26.0	745	1028	1028	27	9.00	73	6.0	6.8
23...	0910	50.0	26.0	745	1028	1028	27	9.00	73	5.4	6.8
23...	0913	55.0	26.0	745	1028	1028	27	9.00	73	6.1	6.8
23...	0916	60.0	26.0	745	1028	1028	27	9.00	73	5.8	6.8
23...	0920	65.0	26.0	745	1028	1028	27	9.00	73	5.8	6.8
23...	0923	70.0	26.0	745	1028	1028	27	9.00	73	6.0	6.8
23...	0927	75.0	26.0	745	1028	1028	27	9.00	73	5.9	6.8
23...	0930	80.0	26.0	745	1028	1028	27	9.00	73	6.0	6.8

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT									
18...	1155	1028	80020	0.99	*82	7.0	21.5	20.0	746
DEC									
01...	0955	1028	80020	255	58	6.9	9.5	9.5	763
JAN									
19...	1015	1028	80020	2380	51	6.9	3.0	7.5	750
MAR									
23...	0900	1028	80020	58	83	7.4	21.0	19.5	747
APR									
18...	1730	1028	80020	235	62	6.8	27.0	20.0	745
MAY									
25...	1140	1028	80020	84	58	6.7	23.0	24.0	752
JUN									
23...	0850	1028	80020	27	73	6.8	25.5	26.0	745
AUG									
18...	0805	1028	80020	4.8	141	7.1	24.0	27.5	748
SEP									
13...	0805	1028	80020	4.8	140	7.5	20.0	21.5	753

*laboratory value instead of field value

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
18...	4.9	55	29	0	24	0.070	0.070	0.070	0.090
DEC									
01...	11.2	98	13	0	11	0.100	0.100	0.100	<0.015
JAN									
19...	10.8	91	10	0	8	0.120	0.120	0.120	0.040
MAR									
23...	8.0	89	21	0	17	---	---	<0.050	0.020
APR									
18...	7.0	79	15	0	12	0.180	0.180	0.180	0.030
MAY									
25...	6.9	83	15	0	12	0.100	0.100	0.100	0.030
JUN									
23...	6.0	76	18	0	14	0.130	0.130	0.130	0.050
AUG									
18...	4.3	55	35	0	29	0.110	0.110	0.110	0.060
SEP									
13...	4.6	53	44	0	36	0.070	0.070	0.070	0.020

POTEAU RIVER SUBBASIN

07247015 POTEAU RIVER AT LOVING, OKLAHOMA--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
18...	0.12	0.61	0.70	0.77	0.050	0.030	0.09	7	0.02
DEC									
01...	---	0.40	0.40	0.50	0.100	0.060	0.18	13	9.0
JAN									
19...	0.05	0.36	0.40	0.52	0.080	0.050	0.15	70	450
MAR									
23...	0.03	0.38	0.40	0.40	0.120	0.080	0.25	15	2.3
APR									
18...	0.04	0.37	0.40	0.58	0.100	0.060	0.18	19	12
MAY									
25...	0.04	0.17	0.20	0.30	0.040	0.030	0.09	13	2.9
JUN									
23...	0.06	0.55	0.60	0.73	0.110	0.050	0.15	22	1.6
AUG									
18...	0.08	0.44	0.50	0.61	0.070	0.070	0.21	19	0.25
SEP									
13...	0.03	0.58	0.60	0.67	0.050	0.010	0.03	9	0.12

POTEAU RIVER SUBBASIN

07247250 BLACK FORK BELOW BIG CREEK NEAR PAGE, OKLAHOMA

LOCATION.--Lat 34°52'46", long 94°30'40", in NE1/4SW1/4, sec.31, T.4 N., R.27 E., LeFlore County, Hydrologic Unit 11110105, on downstream side of bridge pier of county road bridge, 2.2 mi above Haw Creek, 5.0 mi north of Page, and at mile 24.6.

DRAINAGE AREA.--74.4 mi².

PERIOD OF RECORD.--December 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
JUN											
23...	0733	6.00	25.5	743	1028	1028	8.7	4.03	37	6.2	6.8
23...	0736	10.0	25.5	743	1028	1028	8.7	4.03	37	6.1	6.8
23...	0739	14.0	25.5	743	1028	1028	8.7	4.03	37	6.4	6.8
23...	0742	18.0	25.5	743	1028	1028	8.7	4.03	37	6.4	6.8
23...	0745	22.0	25.5	743	1028	1028	8.7	4.03	37	6.0	6.8
23...	0748	26.0	25.5	743	1028	1028	8.7	4.03	37	6.2	6.8
23...	0753	30.0	25.5	743	1028	1028	8.7	4.03	37	6.2	6.8
23...	0755	34.0	25.5	743	1028	1028	8.7	4.03	37	6.2	6.8
23...	0758	38.0	25.5	743	1028	1028	8.7	4.03	37	6.2	6.8

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT									
18...	1400	1028	80020	3.7	46	7.0	24.5	20.5	740
DEC									
01...	1100	1028	80020	104	30	6.7	15.5	9.0	757
JAN									
19...	1130	1028	80020	882	25	6.5	7.5	7.0	750
MAR									
23...	1005	1028	80020	59	29	6.8	24.0	20.0	740
APR									
19...	1040	1028	80020	151	28	6.9	18.5	17.0	745
MAY									
25...	1235	1028	80020	37	32	6.6	25.0	23.5	746
JUN									
23...	0725	1028	80020	8.7	38	6.8	21.0	25.0	743

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
18...	8.3	95	11	0	9	0.060	0.060	0.060	0.040
DEC									
01...	10.8	94	5	0	4	0.090	0.090	0.090	<0.015
JAN									
19...	11.5	97	5	0	4	0.100	0.100	0.100	<0.015
MAR									
23...	7.8	89	7	0	6	---	---	<0.050	<0.015
APR									
19...	8.7	92	7	0	5	---	---	<0.050	<0.015
MAY									
25...	6.0	72	9	0	7	0.090	0.090	0.090	0.030
JUN									
23...	6.4	80	12	0	10	---	---	<0.050	0.060

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
18...	0.05	0.46	0.50	0.56	0.020	0.010	0.03	6	0.06
DEC									
01...	---	---	<0.20	---	0.020	<0.010	---	6	1.7
JAN									
19...	---	0.20	0.20	0.30	0.020	0.020	0.06	13	31
MAR									
23...	---	---	<0.20	---	0.020	<0.010	---	4	0.64
APR									
19...	---	---	<0.20	---	<0.010	<0.010	---	5	2.0
MAY									
25...	0.04	---	<0.20	---	<0.010	<0.010	---	6	0.60
JUN									
23...	0.08	0.34	0.40	0.40	0.030	0.020	0.06	9	0.21

POTEAU RIVER SUBBASIN

07247345 BLACK FORK AT HODGEN, OKLAHOMA

LOCATION.--Lat 34°50'35", long 94°37'28", in SE1/4 SE1/4, sec. 01, T.4 N., R.25E., LeFlore County, Hydrologic Unit 11110105, at county road bridge .4 mi east of Hodgen, Oklahoma.

DRAINAGE AREA.--179 mi^2.

PERIOD OF RECORD.--December 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
JUN										
22...	1335	28.5	744	1028	1028	19	9.47	42	7.0	6.8
22...	1338	28.5	744	1028	1028	19	9.47	42	7.2	6.8
22...	1341	28.5	744	1028	1028	19	9.47	42	7.3	6.8
22...	1344	28.5	744	1028	1028	19	9.47	42	7.4	6.8
22...	1347	28.5	744	1028	1028	19	9.47	42	7.4	6.8
22...	1350	28.5	744	1028	1028	19	9.47	42	7.4	6.8
22...	1354	28.5	744	1028	1028	19	9.47	42	7.4	6.8

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT									
18...	1515	1028	80020	11	*46	7.1	24.5	21.0	745
DEC									
01...	1230	1028	80020	221	38	6.8	11.0	11.0	760
FEB									
09...	1630	1028	80020	122	37	7.6	10.5	7.5	751
MAR									
22...	1210	1028	80020	102	37	7.3	29.0	20.5	738
APR									
19...	1200	1028	80020	309	*35	6.9	18.0	18.0	749
MAY									
24...	1450	1028	80020	55	*39	7.0	26.5	25.5	747
JUN									
22...	1315	1028	80020	19	44	6.8	29.5	28.0	744
AUG									
17...	1220	1028	80020	0.40	57	6.8	35.5	31.5	745
SEP									
13...	1600	1028	80020	0.04	63	7.0	24.0	24.5	751

*laboratory value instead of field value

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
18...	8.0	92	15	0	12	0.060	0.060	0.060	0.020
DEC									
01...	10.0	90	8	0	6	0.060	0.060	0.060	<0.015
FEB									
09...	11.4	97	9	0	7	0.100	0.100	0.100	0.020
MAR									
22...	8.8	101	9	0	7	---	---	<0.050	<0.015
APR									
19...	8.5	92	8	0	7	---	---	<0.050	0.020
MAY									
24...	8.0	100	11	0	9	---	---	<0.050	0.020
JUN									
22...	7.3	96	15	0	12	---	---	<0.050	0.040
AUG									
17...	5.8	81	20	0	16	---	---	<0.050	0.050
SEP									
13...	5.0	61	25	0	20	0.120	0.120	0.120	0.060

07247345 BLACK FORK AT HODGEN, OKLAHOMA--CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
18...	0.03	0.38	0.40	0.46	0.020	<0.010	---	4	0.12
DEC									
01...	---	0.30	0.30	0.36	0.020	<0.010	---	6	3.6
FEB									
09...	0.03	---	<0.20	---	<0.010	<0.010	---	5	1.6
MAR									
22...	---	0.20	0.20	0.20	0.030	<0.010	---	4	1.1
APR									
19...	0.03	---	<0.20	---	0.020	<0.010	---	6	5.0
MAY									
24...	0.03	---	<0.20	---	<0.010	<0.010	---	8	1.2
JUN									
22...	0.05	0.36	0.40	0.40	0.030	0.020	0.06	7	0.36
AUG									
17...	0.06	0.35	0.40	0.40	0.020	<0.010	---	9	0.01
SEP									
13...	0.08	0.44	0.50	0.62	0.050	<0.010	---	9	0.00

POTEAU RIVER SUBBASIN

07247650 FOURCHE MALINE NEAR LEFLORE, OKLAHOMA

LOCATION.--Lat 34°55'11", long 94°56'43", in NE1/4SE1/4, sec.11, T.5 N., R.22 E., LeFlore County, Hydrologic Unit 11110105, at county road bridge 1.6 mi east of LeFlore, Oklahoma.

DRAINAGE AREA.--270 mi².

PERIOD OF RECORD.--December 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
JUN											
22...	1000	8.00	26.0	747	1028	1028	46	8.99	91	5.8	7.1
22...	1003	16.0	26.0	747	1028	1028	46	8.99	91	5.9	7.1
22...	1006	24.0	26.0	747	1028	1028	46	8.99	91	6.0	7.0
22...	1009	32.0	26.0	747	1028	1028	46	8.99	91	5.8	7.1
22...	1012	40.0	26.0	747	1028	1028	46	8.99	91	5.8	7.1
22...	1015	48.0	26.0	747	1028	1028	46	8.99	91	5.8	7.1
22...	1018	56.0	26.0	747	1028	1028	46	8.99	91	6.0	7.1
22...	1021	64.0	26.0	747	1028	1028	46	8.99	91	5.2	7.1
22...	1025	72.0	26.0	747	1028	1028	46	8.99	91	5.0	7.1

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT									
17...	1445	1028	80020	2.3	162	7.3	23.0	18.5	747
NOV									
29...	1400	1028	80020	170	89	7.3	12.0	11.0	756
FEB									
09...	1215	1028	80020	115	87	*7.1	12.0	8.0	752
MAR									
22...	0940	1028	80020	72	95	7.4	24.5	19.5	740
APR									
19...	0800	1028	80020	243	71	7.5	8.5	16.5	751
MAY									
25...	0935	1028	80020	51	93	7.0	19.5	22.0	753
JUN									
22...	0950	1028	80020	46	92	7.0	28.0	25.5	747
AUG									
17...	0930	1028	80020	0.85	147	7.2	28.5	27.0	748
SEP									
12...	1430	1028	80020	4.2	166	7.6	23.0	22.0	750

*PH, LAB (STANDARD UNITS)

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
17...	5.4	59	71	0	58	---	---	<0.050	0.030
NOV									
29...	9.4	86	21	0	18	0.110	0.110	0.110	<0.015
FEB									
09...	11.6	99	21	0	17	0.090	0.090	0.090	<0.015
MAR									
22...	7.6	85	22	0	18	---	---	---	---
APR									
19...	7.5	78	12	0	10	0.080	0.080	0.080	0.030
MAY									
25...	6.4	74	27	0	22	0.170	0.170	0.170	0.040
JUN									
22...	5.8	73	29	0	24	0.150	0.150	0.150	0.040
AUG									
17...	4.7	60	54	0	44	---	---	<0.050	0.070
SEP									
12...	5.8	68	66	0	54	0.080	0.080	0.080	0.050

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
17...	0.04	0.47	0.50	0.50	0.030	0.010	0.03	67	0.42
NOV									
29...	---	0.40	0.40	0.51	0.040	0.020	0.06	15	6.9
FEB									
09...	---	0.20	0.20	0.29	0.010	0.010	0.03	11	3.4
MAR									
22...	---	0.30	0.30	0.30	0.040	---	---	18	3.5
APR									
19...	0.04	0.47	0.50	0.58	0.050	0.010	0.03	40	26
MAY									
25...	0.05	0.26	0.30	0.47	0.030	0.030	0.09	21	2.9
JUN									
22...	0.05	0.36	0.40	0.55	0.070	0.020	0.06	20	2.5
AUG									
17...	0.09	0.53	0.60	0.60	0.040	<0.010	---	19	0.04
SEP									
12...	0.06	0.75	0.80	0.88	0.050	<0.010	---	21	0.24

POTEAU RIVER SUBBASIN

07247800 HOLSON CREEK AT SUMMERFIELD, OKLAHOMA

LOCATION.--Lat 34°52'46", long 94°51'11", in SW1/4NW1/4, sec. 26, T.5 N., R.23 E., LeFlore County, Hydrologic Unit 11110105, at county road bridge, 1.4 mi east of Summerfield, Oklahoma.

DRAINAGE AREA.--71.6 mi².

PERIOD OF RECORD.--December 1991 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (FEET) (00065)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
JUN											
22...	1155	27.0	26.5	746	1028	1028	8.4	21.50	46	7.4	6.8
22...	1158	24.0	26.5	746	1028	1028	8.4	21.50	46	7.4	6.8
22...	1201	21.0	26.5	746	1028	1028	8.4	21.50	46	7.4	6.8
22...	1204	18.0	26.5	746	1028	1028	8.4	21.50	46	7.3	6.8
22...	1207	14.0	26.5	746	1028	1028	8.4	21.50	46	7.3	6.8
22...	1210	11.0	26.5	746	1028	1028	8.4	21.50	46	7.3	6.8
22...	1213	8.00	26.5	746	1028	1028	8.4	21.50	46	7.4	6.8
22...	1216	5.00	26.5	746	1028	1028	8.4	21.50	46	7.4	6.8
22...	1220	2.00	26.5	746	1028	1028	8.4	21.50	46	7.3	6.8

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)
OCT									
17...	1630	1028	80020	0.71	62	7.1	23.0	20.0	745
DEC									
01...	0800	1028	80020	36	42	7.1	-1.0	8.0	763
FEB									
09...	1400	1028	80020	33	38	7.1	11.0	7.0	750
MAR									
22...	0750	1028	80020	24	44	7.3	21.5	18.0	739
APR									
17...	1500	1028	80020	55	44	7.3	26.0	19.5	740
MAY									
25...	0750	1028	80020	20	*44	7.0	18.5	22.0	752
JUN									
22...	1145	1028	80020	8.4	46	6.8	31.5	26.5	746
AUG									
17...	1055	1028	80020	0.13	61	7.1	33.5	30.5	745
SEP									
12...	1540	1028	80020	E0.01	60	7.5	22.5	23.5	748

*laboratory value instead of field value
E Estimated discharge

DATE	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
17...	7.8	88	18	0	14	---	---	<0.050	0.040
DEC									
01...	11.0	93	8	0	7	---	---	<0.050	<0.015
FEB									
09...	11.8	98	6	0	5	0.060	0.060	0.060	0.020
MAR									
22...	8.8	96	7	0	6	---	---	<0.050	0.020
APR									
17...	8.6	97	9	0	7	---	---	<0.050	0.020
MAY									
25...	7.5	87	10	0	8	0.060	0.060	0.060	0.030
JUN									
22...	7.3	93	12	0	10	---	---	<0.050	0.050
AUG									
17...	5.3	72	20	0	17	0.070	0.070	0.070	0.050
SEP									
12...	5.0	60	18	0	15	0.180	0.180	0.180	0.070

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4) (71846)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
17...	0.05	0.46	0.50	0.50	0.020	<0.010	---	13	0.02
DEC									
01...	---	---	<0.20	---	0.010	<0.010	---	2	0.19
FEB									
09...	0.03	---	<0.20	---	<0.010	<0.010	---	<1	---
MAR									
22...	0.03	---	<0.20	---	0.010	0.010	0.03	1	0.07
APR									
17...	0.03	---	<0.20	---	0.010	<0.010	---	7	1.0
MAY									
25...	0.04	---	<0.20	---	<0.010	<0.010	---	4	0.21
JUN									
22...	0.06	0.35	0.40	0.40	0.020	0.020	0.06	10	0.23
AUG									
17...	0.06	0.25	0.30	0.37	0.020	<0.010	---	13	0.00
SEP									
12...	0.09	0.43	0.50	0.68	0.010	<0.010	---	18	--

POTEAU RIVER SUBBASIN

07249400 JAMES FORK NEAR HACKETT, ARKANSAS

LOCATION.--Lat 35°09'45", long 94°04'25", in NW1/4NW1/4, sec.34, T.6 N., R.32 W., Sebastian County, near left bank on downstream side of bridge on State Highway 45, 1.7 mi 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.

AVERAGE DISCHARGE.--37 years, 144 ft^3/s.

EXTREMES.--April 1958 to current year: Maximum discharge 30,000 ft^3/s May 14, 1968; no flow at times.

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

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	93.21	9.9	.91	3.01	185
November	18,533	4,590	13	618	36,760
December	9,740	2,250	59	314	19,320
January	16,828	4,680	66	543	33,380
February	1,981	200	30	70.7	3,930
March	3,882	1,080	27	125	7,700
April	4,703	1,180	31	157	9,330
May	11,271	4,730	23	364	22,360
June	3,457	813	17	115	6,860
July	727.5	243	6.0	23.5	1,440
August	127.0	10	2.3	4.10	252
September	121.4	8.9	1.9	4.05	241
Water year 1995	71,464.11	4,730	.91	196	141,700

07249400 JAMES FORK NEAR HACKETT, ARKANSAS--CONTINUED

PERIOD OF RECORD.--October 1960 to September 1971, October 1975 to September 1978, October 1983 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
JUN 27.	1200	80513	81213	22	299	7.1	23.5	5.8	69	80
AUG 02.	0830	80513	81213	8.0	340	7.4	26.5	4.3	55	170

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 27.	1200	80	K20	120	19	17	22	29	0.9	2.1
AUG 02.	0830	170	65	110	17	16	20	28	0.8	2.8

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 27.	1200	67	4.0	182	0.00	0.070	0.030	0.030	0.020
AUG 02.	0830	60	5.3	184	0.020	0.010	0.030	0.030	0.050

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 27.	1200	0.19	0.21	0.030	0.030	0.010	46	2.7	99
AUG 02.	0830	0.25	0.30	0.060	0.050	<0.010	43	0.93	92

LEE CREEK SUBBASIN

07249985 LEE CREEK NEAR SHORT, OKLAHOMA

LOCATION.--Lat 35°29'40", long 94°26'58", in SE1/4, sec.21, 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.

AVERAGE DISCHARGE.--51 years (1930-36, 1950-95), 532 ft^3/s.

EXTREMES.--September 1930 to June 1937, October 1950 to current year: Maximum discharge 80,600 ft^3/s May 6, 1960; no flow at times.

REMARKS.--Records good. Prior to October 1992 published as 07250000 Lee Creek near Van Buren, Arkansas. Satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	784.7	40	2.5	25.3	1,560
November	49,789	7,290	25	1,660	98,760
December	23,898	4,910	213	771	47,400
January	41,792	7,630	216	1,348	82,890
February	10,362	782	217	370	20,550
March	23,238	2,690	322	750	46,090
April	34,439	6,630	219	1,148	68,310
May	50,305	14,700	228	1,623	99,780
June	22,801	4,410	144	760	45,230
July	4,129	478	33	133	8,190
August	537.9	70	1.2	17.4	1,070
September	200.27	21	.00	6.68	397
Water year 1995	262,275.87	14,700	0.00	719	520,200

LEE CREEK SUBBASIN

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.

DRAINAGE AREA.--432 mi^2.

PERIOD OF RECORD.--October 1992 to current year.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen,and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
JUN 28.	0900	80513	81213	90	91	7.1	27.0	7.7	99	K52
AUG 02.	1030	80513	81213	38	104	7.5	29.0	5.6	75	K2

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 28.	0900	K1	K9	39	13	1.5	5.8	24	0.4	1.1
AUG 02.	1030	<1	K1	40	13	1.8	2.5	11	0.2	1.6

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)
JUN 28.	0900	3.7	1.9	64	0.010	0.010	0.020	0.020	0.020	0.30
AUG 02.	1030	3.1	2.8	56	---	<0.010	---	<0.020	0.040	0.38

DATE	TIME	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)
JUN 28.	0900	0.32	0.050	<0.020	0.010	23	5.6	88	1.00
AUG 02.	1030	0.42	0.020	0.020	<0.010	19	1.9	83	---

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN, ARKANSAS

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, in James W. Trimble Lock and Dam control house on right bank, and at mile 308.9.

DRAINAGE AREA.--150,547 mi^2, of which 22,241 mi^2 is probably noncontributing.

AVERAGE DISCHARGE.--Prior to regulation, 42 years (water year 1928-69) 30,220 ft^3/s; 26 years (water years 1970-95) 40,350 ft^3/s.

EXTREMES.--October 1927 to current year: Maximum discharge 850,000 ft^3/s May 12, 1943; no flow Nov. 2, 1975, Feb. 1, 1981, Oct. 17, 1987, Dec. 9, 1989, Nov. 11-12, 1993, Jan. 9, 13, 1994.

REMARKS.--Records good except for discharges below 10,000 ft^3/s, which are fair. Prior to October 1969, published as 07250500 Arkansas River at Van Buren. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream. Satellite telemeter at station.

Monthly and yearly discharge

Month	Total (ft^3/s)	Maximum daily (ft^3/s)	Minimum daily (ft^3/s)	Mean (ft^3/s)	Runoff (acre-feet)
October	165,539	20,300	0.00	5,340	328,300
November	2,154,471	105,000	951	71,820	4,273,000
December	1,429,560	86,300	7,660	46,110	2,836,000
January	1,140,540	99,500	7,350	36,790	2,262,000
February	603,630	44,700	3,080	21560	1,197,000
March	1,514,600	75,000	17,000	48,860	3,004,000
April	1,594,580	112,000	8,080	53,150	3,163,000
May	4,545,000	186,000	109,000	146,600	9,015,000
June	5,746,000	290,000	147,000	191,500	11,400,000
July	3,240,100	157,000	39,100	104,500	6,427,000
August	1,587,600	69,200	35,400	51,210	3,149,000
September	324,222	30,500	92	10,810	643,100
Water year 1995	24,045,842	290,000	0.00	65,880	47,690,000

07250550 ARKANSAS RIVER AT JAMES W. TRIMBLE LOCK AND DAM NEAR VAN BUREN--CONTINUED

PERIOD OF RECORD.--October 1969 to September 1992, June to September 1995. Prior to October 1969, published as 07250500 Arkansas River at Van Buren.

REMARKS.--Specific conductance, pH, water temperature, dissolved oxygen, and alkalinity were determined in the field.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUN 26.	1600	80513	81213	162000	355	7.6	24.5	9.8	119	69
AUG 01.	0915	80513	81213	44400	510	8.6	29.0	7.4	98	---

DATE	TIME	E. COLI WATER WHOLE TOTAL UREASE (COLS./ 100 ML) (31633)	STREPTOCOCCI FECAL, KF AGAR (COLS./ 100 ML) (31673)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
JUN 26.	1600	K41	96	120	35	7.4	32	36	1	4.2
AUG 01.	0915	---	K6	120	37	7.5	50	46	2	4.0

DATE	TIME	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
JUN 26.	1600	30	42	222	0.460	0.010	0.470	0.470	0.030
AUG 01.	0915	37	76	290	0.120	0.010	0.130	0.130	0.030

DATE	TIME	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 26.	1600	0.60	0.63	0.160	0.070	0.070	147	64300	78
AUG 01.	0915	0.49	0.52	0.130	0.040	0.040	53	6350	97