

07020500 MISSISSIPPI RIVER AT CHESTER, IL

LOCATION.--Lat 37°54'10", long 89°50'10", in SW $\frac{1}{4}$ sec.24, T.7 S., R.7 W., third principal meridian, Randolph County, Hydrologic Unit 07140105, on downstream side of left pier of main truss of highway bridge at Chester, 8.1 mi downstream from Kaskaskia River, and at mile 109.9 above Ohio River.

DRAINAGE AREA.--708,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 1927 to current year. Monthly discharge only for some periods, published in WSP 1311. Since August 1873, results of discharge measurements in reports of the Mississippi River Commission.

GAGE HEIGHT: July 1942 to current year. Since May 1891, in reports of the Mississippi River Commission and National Weather Service.

REVISED RECORDS.--WDR MO-76-1: Drainage area. WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 341.05 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 1, 1962, nonrecording gage 0.4 mi downstream at present datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River Basin and by many reservoirs and diversions for irrigation in Missouri River Basin. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 30, 1844, reached a gage height of 39.8 ft, discharge, 1,050,000 ft³/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

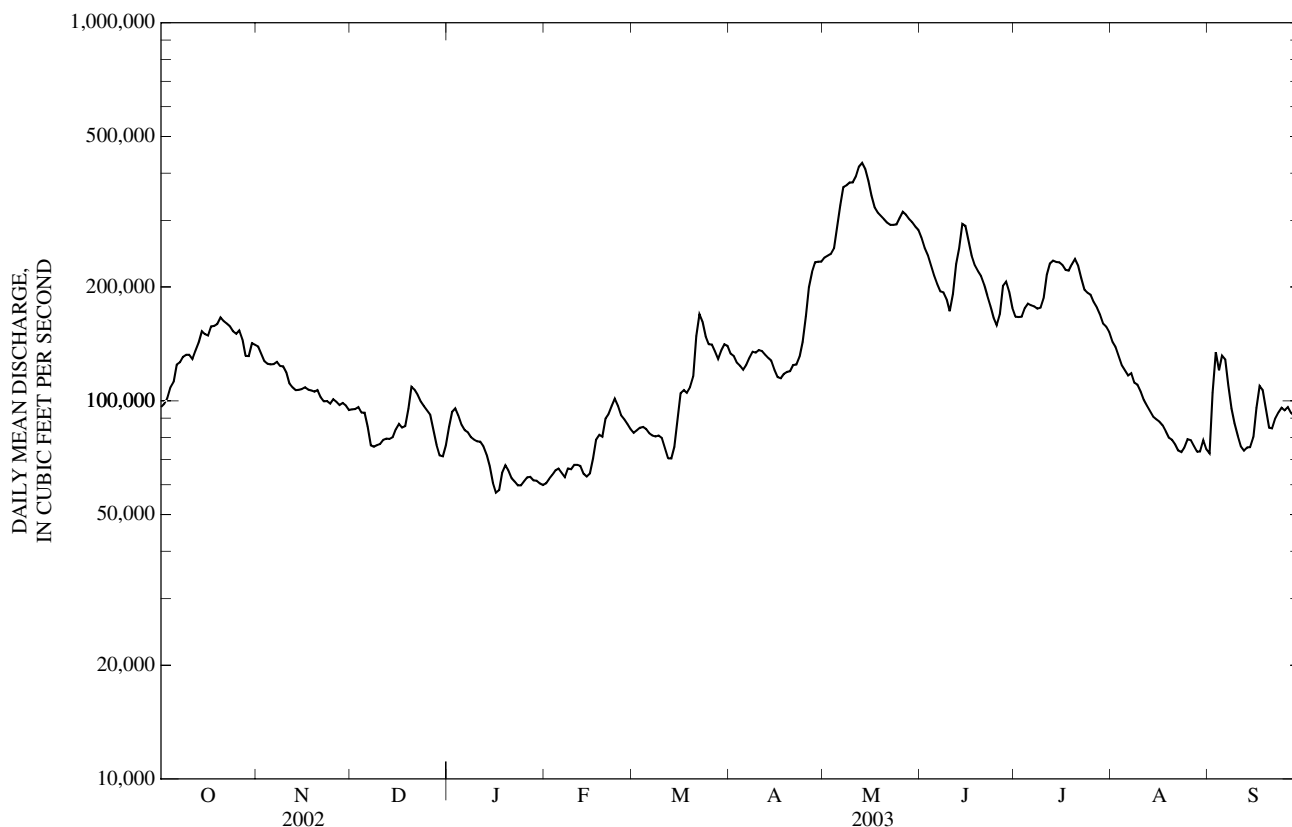
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96,400	139,000	95,000	85,400	60,500	82,300	133,000	239,000	270,000	167,000	143,000	72,600
2	98,300	133,000	95,200	93,500	62,200	83,500	131,000	242,000	254,000	167,000	139,000	105,000
3	102,000	127,000	96,300	95,500	63,700	84,900	126,000	245,000	243,000	167,000	131,000	134,000
4	109,000	125,000	93,100	91,500	65,500	85,300	124,000	253,000	228,000	176,000	124,000	120,000
5	112,000	125,000	93,100	86,500	66,200	84,200	121,000	287,000	214,000	181,000	120,000	132,000
6	125,000	125,000	85,600	83,600	64,500	82,100	125,000	329,000	204,000	179,000	117,000	129,000
7	126,000	127,000	76,300	82,600	62,800	80,900	130,000	367,000	195,000	178,000	118,000	110,000
8	131,000	124,000	75,600	80,200	66,200	80,500	135,000	371,000	194,000	175,000	112,000	95,500
9	132,000	123,000	76,300	79,000	66,000	81,000	134,000	378,000	186,000	176,000	110,000	87,200
10	132,000	119,000	76,900	78,200	67,700	79,800	136,000	378,000	173,000	187,000	106,000	81,000
11	129,000	111,000	78,800	78,000	67,700	75,000	135,000	392,000	192,000	216,000	101,000	75,700
12	136,000	108,000	79,400	75,800	67,300	70,500	132,000	416,000	230,000	231,000	97,000	73,900
13	143,000	107,000	79,300	72,100	64,200	70,400	130,000	426,000	253,000	235,000	94,000	75,300
14	153,000	107,000	80,100	67,200	63,100	75,600	128,000	411,000	294,000	233,000	90,800	75,400
15	150,000	107,000	84,000	60,700	64,300	88,900	121,000	381,000	290,000	232,000	89,400	80,200
16	149,000	109,000	86,900	57,200	70,500	105,000	116,000	349,000	265,000	229,000	88,100	95,700
17	157,000	107,000	85,000	58,000	79,000	107,000	115,000	325,000	242,000	222,000	86,200	109,000
18	158,000	107,000	85,700	64,600	81,300	105,000	118,000	314,000	228,000	221,000	83,200	107,000
19	160,000	106,000	95,300	67,500	80,400	109,000	119,000	308,000	221,000	229,000	79,900	95,300
20	166,000	107,000	109,000	65,500	89,900	116,000	120,000	302,000	214,000	237,000	78,900	85,000
21	163,000	102,000	107,000	62,500	92,300	148,000	124,000	296,000	203,000	228,000	76,700	84,600
22	160,000	99,700	104,000	61,200	97,000	170,000	125,000	292,000	190,000	211,000	73,900	89,900
23	157,000	99,900	99,500	59,800	101,000	162,000	131,000	292,000	178,000	197,000	73,200	93,100
24	153,000	98,400	96,900	59,800	97,000	148,000	143,000	293,000	166,000	193,000	75,300	95,900
25	150,000	101,000	94,300	61,300	91,500	141,000	167,000	304,000	159,000	191,000	79,100	94,400
26	153,000	99,400	92,000	62,800	89,400	141,000	200,000	316,000	169,000	183,000	78,700	96,200
27	145,000	97,500	83,700	63,000	86,800	135,000	219,000	310,000	201,000	177,000	76,000	93,100
28	132,000	98,800	76,400	61,600	84,200	129,000	233,000	303,000	207,000	169,000	73,400	91,400
29	131,000	97,300	71,700	61,500	---	136,000	233,000	296,000	194,000	160,000	73,500	86,300
30	142,000	94,600	71,300	60,500	---	141,000	233,000	289,000	176,000	157,000	78,700	79,300
31	141,000	---	76,200	59,900	---	140,000	---	283,000	---	152,000	74,500	---
MEAN	138,400	111,100	87,090	70,850	75,440	107,700	144,600	322,200	214,400	195,400	94,890	94,770
MAX	166,000	139,000	109,000	95,500	101,000	170,000	233,000	426,000	294,000	237,000	143,000	134,000
MIN	96,400	94,600	71,300	57,200	60,500	70,400	115,000	239,000	159,000	152,000	73,200	72,600
IN.	0.23	0.17	0.14	0.12	0.11	0.18	0.23	0.52	0.34	0.32	0.15	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2003, BY WATER YEAR (WY)

MEAN	150,400	156,400	139,700	130,200	160,500	248,800	331,400	326,000	287,400	242,600	160,100	145,900
MAX	588,300	380,400	500,100	323,200	331,000	528,400	719,100	630,900	597,200	795,300	769,500	551,000
(WY)	(1987)	(1986)	(1983)	(1973)	(1974)	(1973)	(1973)	(1995)	(1947)	(1993)	(1993)	(1993)
MIN	59,490	59,320	51,070	47,810	52,860	84,200	129,400	127,200	81,040	69,050	69,580	66,030
(WY)	(1957)	(1957)	(1964)	(1964)	(1964)	(1964)	(2000)	(1989)	(1988)	(1988)	(1988)	(1976)

07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1942 - 2003	
ANNUAL MEAN	195,200		138,500		206,600	
HIGHEST ANNUAL MEAN					441,700	
LOWEST ANNUAL MEAN					96,770	
HIGHEST DAILY MEAN	732,000	May 17	426,000	May 13	1,000,000	Aug 6, 1993
LOWEST DAILY MEAN	71,300	Dec 30	57,200	Jan 16	37,600	Jan 1, 1964
ANNUAL SEVEN-DAY MINIMUM	77,500	Dec 7	61,300	Jan 27	38,500	Dec 20, 1963
MAXIMUM PEAK FLOW	---		427,000	May 13	1,000,000	Aug 7, 1993
MAXIMUM PEAK STAGE	---		27.11	May 13	49.74	Aug 7, 1993
INSTANTANEOUS LOW FLOW	---		56,800	Jan 16,17	30,000	Dec 12, 1937
ANNUAL RUNOFF (INCHES)	3.74		2.65		3.96	
10 PERCENT EXCEEDS	391,000		242,000		399,000	
50 PERCENT EXCEEDS	152,000		112,000		166,000	
90 PERCENT EXCEEDS	93,100		71,000		78,100	



07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT: August 1980 to current year.

REMARKS.--Sediment records fair except for estimated daily loads, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,380 mg/L, Apr. 13, 1987; minimum daily mean, 13 mg/L, Mar. 18, 1981.

SUSPENDED-SEDIMENT LOADS: Maximum daily, 3,330,000 tons, Feb. 25, 1997; minimum daily, 3,580 tons, Mar. 18, 1981.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS.--Maximum daily mean, 842 mg/L, May 13; minimum daily mean, 90 mg/L, Jan. 21.

SUSPENDED-SEDIMENT LOADS.--Maximum daily, 969,000 tons, May 13; minimum daily 13,700 tons, Jan. 16.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)
OCTOBER			NOVEMBER			DECEMBER			
1	96,400	---	e20,300	139,000	---	e45,400	95,000	---	e25,800
2	98,300	---	e22,300	133,000	---	e41,700	95,200	---	e25,600
3	102,000	---	e23,700	127,000	---	e37,500	96,300	---	e26,100
4	109,000	---	e27,500	125,000	---	e34,700	93,100	---	e24,700
5	112,000	---	e28,600	125,000	---	e32,400	93,100	---	e24,900
6	125,000	---	e42,700	125,000	---	e31,300	85,600	---	e22,500
7	126,000	---	e44,300	127,000	97	33,300	76,300	---	e19,400
8	131,000	---	e40,900	124,000	---	e33,200	75,600	---	e18,500
9	132,000	---	e39,500	123,000	---	e33,700	76,300	---	e18,800
10	132,000	---	e38,300	119,000	---	e32,300	76,900	---	e19,100
11	129,000	---	e36,400	111,000	---	e29,200	78,800	91	19,400
12	136,000	---	e38,800	108,000	---	e28,000	79,400	---	e19,500
13	143,000	---	e43,700	107,000	---	e27,400	79,300	---	e19,600
14	153,000	---	e55,900	107,000	---	e27,300	80,100	---	e20,000
15	150,000	---	e55,200	107,000	---	e27,800	84,000	---	e22,100
16	149,000	---	e51,000	109,000	---	e30,000	86,900	---	e23,500
17	157,000	137	58,000	107,000	---	e29,100	85,000	---	e21,900
18	158,000	---	e55,100	107,000	---	e28,200	85,700	---	e22,000
19	160,000	---	e57,400	106,000	---	e27,600	95,300	---	e28,300
20	166,000	---	e62,200	107,000	---	e29,200	109,000	---	e43,300
21	163,000	---	e57,700	102,000	---	e29,200	107,000	---	e39,500
22	160,000	---	e53,100	99,700	104	28,000	104,000	---	e36,600
23	157,000	---	e49,200	99,900	---	e28,300	99,500	---	e34,200
24	153,000	---	e46,400	98,400	---	e27,400	96,900	---	e32,500
25	150,000	---	e47,000	101,000	---	e28,900	94,300	---	e31,000
26	153,000	---	e50,400	99,400	---	e28,000	92,000	---	e29,400
27	145,000	---	e44,400	97,500	---	e26,800	83,700	---	e24,600
28	132,000	---	e36,000	98,800	---	e27,700	76,400	---	e21,200
29	131,000	---	e35,800	97,300	---	e26,900	71,700	---	e19,700
30	142,000	---	e47,900	94,600	---	e25,100	71,300	---	e19,700
31	141,000	---	e47,200	---	---	---	76,200	---	e21,800

07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY),—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)
JANUARY			FEBRUARY			MARCH			
1	85,400	---	e26,400	60,500	---	e17,100	82,300	133	29,700
2	93,500	---	e29,900	62,200	---	e18,700	83,500	144	32,400
3	95,500	---	e29,800	63,700	---	e20,300	84,900	144	33,100
4	91,500	---	e27,800	65,500	124	22,000	85,300	138	31,800
5	86,500	---	e25,700	66,200	130	23,300	84,200	138	31,400
6	83,600	---	e24,200	64,500	---	21,700	82,100	138	30,500
7	82,600	---	e23,100	62,800	---	20,000	80,900	132	28,900
8	80,200	---	e21,600	66,200	133	23,900	80,500	127	27,500
9	79,000	---	e20,800	66,000	---	23,000	81,000	124	27,200
10	78,200	---	e20,200	67,700	---	22,000	79,800	119	25,700
11	78,000	---	e19,800	67,700	113	20,700	75,000	115	23,300
12	75,800	---	e19,000	67,300	111	20,100	70,500	109	20,700
13	72,100	---	e17,800	64,200	109	18,900	70,400	107	20,300
14	67,200	---	e16,400	63,100	107	18,300	75,600	149	30,500
15	60,700	---	e14,600	64,300	98	16,900	88,900	204	48,900
16	57,200	---	e13,700	70,500	---	18,300	105,000	208	58,900
17	58,000	---	e14,000	79,000	---	22,000	107,000	206	59,500
18	64,600	---	e16,500	81,300	134	29,400	105,000	208	59,000
19	67,500	---	e16,900	80,400	194	42,200	109,000	212	62,100
20	65,500	---	e15,900	89,900	239	57,900	116,000	217	68,100
21	62,500	90	15,100	92,300	270	67,300	148,000	---	e97,400
22	61,200	---	e14,900	97,000	237	61,800	170,000	---	e107,000
23	59,800	---	e14,700	101,000	151	41,500	162,000	---	e93,600
24	59,800	---	e15,700	97,000	---	37,100	148,000	---	e78,000
25	61,300	101	16,700	91,500	---	34,800	141,000	---	e72,300
26	62,800	---	e17,000	89,400	---	33,800	141,000	175	66,500
27	63,000	---	e17,200	86,800	137	32,200	135,000	163	59,400
28	61,600	---	e16,500	84,200	131	29,900	129,000	161	56,300
29	61,500	---	e16,200	---	---	---	136,000	166	61,800
30	60,500	---	e16,100	---	---	---	141,000	163	62,700
31	59,900	---	e16,100	---	---	---	140,000	129	48,700
APRIL			MAY			JUNE			
1	133,000	---	e43,900	239,000	250	162,000	270,000	204	149,000
2	131,000	---	e41,200	242,000	207	135,000	254,000	206	141,000
3	126,000	---	e37,600	245,000	226	149,000	243,000	266	175,000
4	124,000	---	e35,000	253,000	235	161,000	228,000	206	127,000
5	121,000	100	32,500	287,000	250	194,000	214,000	169	98,100
6	125,000	104	34,900	329,000	328	293,000	204,000	147	81,000
7	130,000	122	e42,900	367,000	672	668,000	195,000	174	91,300
8	135,000	138	50,300	371,000	704	706,000	194,000	172	89,700
9	134,000	---	e50,400	378,000	580	592,000	186,000	212	106,000
10	136,000	---	e50,800	378,000	501	511,000	173,000	254	118,000
11	135,000	---	e50,200	392,000	500	530,000	192,000	315	163,000
12	132,000	---	e47,500	416,000	765	861,000	230,000	372	231,000
13	130,000	---	e44,300	426,000	842	969,000	253,000	475	323,000
14	128,000	---	e41,300	411,000	750	833,000	294,000	299	237,000
15	121,000	---	e36,400	381,000	666	686,000	290,000	321	252,000
16	116,000	---	e31,400	349,000	588	555,000	265,000	334	239,000
17	115,000	---	e29,300	325,000	478	419,000	242,000	267	175,000
18	118,000	---	e29,100	314,000	432	367,000	228,000	235	145,000
19	119,000	---	e28,500	308,000	386	321,000	221,000	299	178,000
20	120,000	---	e28,400	302,000	322	263,000	214,000	295	171,000
21	124,000	---	e29,500	296,000	341	272,000	203,000	308	168,000
22	125,000	88	29,800	292,000	308	242,000	190,000	279	143,000
23	131,000	93	32,800	292,000	272	215,000	178,000	278	134,000
24	143,000	103	40,100	293,000	248	196,000	166,000	264	119,000
25	167,000	156	71,300	304,000	260	213,000	159,000	216	92,700
26	200,000	227	122,000	316,000	247	211,000	169,000	224	103,000
27	219,000	216	128,000	310,000	256	215,000	201,000	411	224,000
28	233,000	191	120,000	303,000	349	285,000	207,000	280	156,000
29	233,000	197	124,000	296,000	314	251,000	194,000	261	137,000
30	233,000	202	127,000	289,000	308	241,000	176,000	278	132,000
31	---	---	---	283,000	281	215,000	---	---	---

07020500 MISSISSIPPI RIVER AT CHESTER, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY),—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)
JULY			AUGUST			SEPTEMBER			
1	167,000	225	101,000	143,000	126	48,800	72,600	109	21,400
2	167,000	200	90,200	139,000	118	44,000	105,000	217	63,000
3	167,000	186	83,900	131,000	120	42,500	134,000	256	92,800
4	176,000	138	65,700	124,000	119	39,900	120,000	212	69,000
5	181,000	222	108,000	120,000	117	38,100	132,000	140	49,800
6	179,000	317	153,000	117,000	116	36,600	129,000	152	52,700
7	178,000	285	137,000	118,000	112	35,900	110,000	143	42,700
8	175,000	274	130,000	112,000	120	36,200	95,500	137	35,400
9	176,000	215	102,000	110,000	180	53,800	87,200	139	32,900
10	187,000	151	76,300	106,000	144	41,100	81,000	138	30,200
11	216,000	256	149,000	101,000	136	37,000	75,700	151	30,900
12	231,000	344	214,000	97,000	136	35,600	73,900	141	28,200
13	235,000	325	206,000	94,000	141	35,900	75,300	145	29,600
14	233,000	297	187,000	90,800	147	36,100	75,400	126	25,600
15	232,000	265	166,000	89,400	126	30,300	80,200	131	28,500
16	229,000	225	139,000	88,100	116	27,500	95,700	171	44,200
17	222,000	217	130,000	86,200	118	27,600	109,000	151	44,700
18	221,000	273	163,000	83,200	140	31,500	107,000	138	39,800
19	229,000	319	198,000	79,900	143	30,800	95,300	131	33,800
20	237,000	268	172,000	78,900	102	21,700	85,000	143	32,900
21	228,000	251	155,000	76,700	124	25,600	84,600	157	35,900
22	211,000	225	128,000	73,900	119	23,700	89,900	132	32,100
23	197,000	207	110,000	73,200	91	18,000	93,100	131	32,900
24	193,000	144	75,200	75,300	100	20,500	95,900	150	38,900
25	191,000	122	63,100	79,100	131	28,000	94,400	189	48,200
26	183,000	120	59,000	78,700	108	23,000	96,200	164	42,600
27	177,000	117	56,000	76,000	100	20,600	93,100	135	34,000
28	169,000	114	52,000	73,400	101	20,100	91,400	152	37,600
29	160,000	111	48,000	73,500	134	26,600	86,300	170	39,500
30	157,000	111	47,100	78,700	113	24,100	79,300	137	29,400
31	152,000	116	47,700	74,500	94	18,900	---	---	---

e Estimated

SALINE CREEK BASIN

07020550 SOUTH FORK SALINE CREEK NEAR PERRYVILLE, MO

LOCATION.--Lat 37°44'13", long 89°55'42", Perry County, Hydrologic Unit 07140105, on State Route T, 0.13 mi northeast of junction of State Highways M and T, .25 mi west of I-55, 2.5 mi west of Perryville.

DRAINAGE AREA.--55.3 mi².

PERIOD OF RECORD.--June 10, 1998 to current year.

GAGE.--Water stage recorder. Datum of gage 444.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

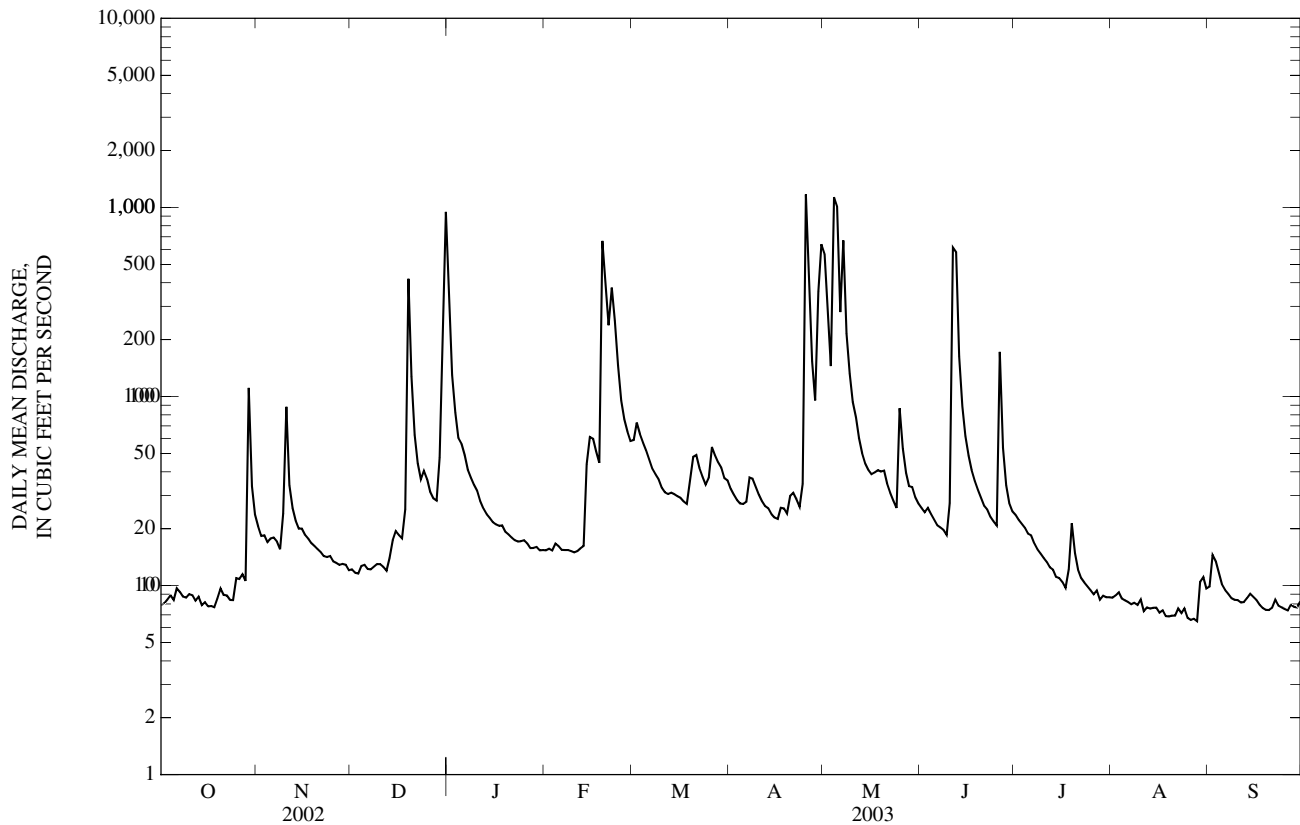
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	21	12	283	15	59	33	567	26	24	8.6	9.9
2	8.0	18	12	130	16	73	30	294	24	22	8.9	15
3	8.4	18	12	82	15	63	28	145	26	21	9.2	13
4	8.9	17	13	60	17	57	27	1,130	24	20	8.5	12
5	8.4	18	13	56	16	52	27	1,010	22	19	8.3	10
6	9.7	18	12	49	15	46	28	280	21	18	8.2	9.5
7	9.3	17	12	41	15	41	37	669	20	17	8.0	9.0
8	8.8	16	13	37	15	39	37	216	20	16	8.1	8.6
9	8.6	24	13	34	15	36	33	132	19	15	7.9	8.4
10	9.0	88	13	32	15	33	30	94	27	14	8.4	8.4
11	8.9	34	13	28	15	31	28	78	614	13	7.3	8.1
12	8.3	26	12	26	16	30	26	60	581	13	7.7	8.2
13	8.7	22	14	24	16	31	26	50	163	12	7.6	8.6
14	7.9	20	17	23	44	30	24	44	89	11	7.6	9.1
15	8.2	20	19	22	61	30	23	41	62	11	7.6	8.7
16	7.8	19	18	21	60	29	23	39	49	10	7.2	8.4
17	7.8	18	18	21	51	28	26	40	41	9.7	7.4	7.9
18	7.7	17	25	21	45	27	26	41	36	12	6.9	7.6
19	8.5	16	419	19	665	36	24	40	32	21	6.9	7.4
20	9.6	16	127	19	381	48	30	41	29	15	6.9	7.4
21	8.9	15	63	18	238	49	31	35	26	12	6.9	7.6
22	8.9	14	44	17	377	42	29	31	25	11	7.6	8.4
23	8.4	14	36	17	252	38	26	28	23	10	7.2	7.8
24	8.4	14	40	17	146	34	34	26	22	9.9	7.6	7.7
25	11	13	37	17	95	37	1,170	87	21	9.4	6.8	7.5
26	11	13	31	17	76	54	369	53	172	9.0	6.6	7.4
27	12	13	29	16	65	49	154	39	54	9.4	6.7	7.9
28	11	13	28	16	58	45	95	34	34	8.4	6.5	7.7
29	111	13	48	16	---	42	359	33	27	8.8	10	7.7
30	34	12	267	15	---	37	638	29	25	8.7	11	8.2
31	24	---	947	15	---	36	---	27	---	8.7	9.7	---
MEAN	13.5	19.9	76.7	39.0	101	41.4	116	175	78.5	13.5	7.86	8.77
MAX	111	88	947	283	665	73	1,170	1,130	614	24	11	15
MIN	7.7	12	12	15	15	27	23	26	19	8.4	6.5	7.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

MEAN	12.9	19.5	56.7	52.4	96.2	80.8	125	148	38.4	27.4	18.0	8.53
MAX	22.5	36.3	154	130	152	217	309	468	78.5	87.8	33.6	12.3
(WY)	(2002)	(2002)	(2002)	(1999)	(1999)	(2002)	(1999)	(2002)	(2003)	(2001)	(2001)	(2002)
MIN	7.55	9.23	16.0	14.8	47.9	19.7	17.9	15.8	13.4	9.27	6.31	4.69
(WY)	(2001)	(2000)	(1999)	(2001)	(2000)	(2001)	(2000)	(2000)	(2001)	(2000)	(2000)	(2000)

07020550 SOUTH FORK SALINE CREEK NEAR PERRYVILLE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1998 - 2003	
ANNUAL MEAN	97.4		57.2		56.8	
HIGHEST ANNUAL MEAN					106	
LOWEST ANNUAL MEAN					20.0	
HIGHEST DAILY MEAN	4,100	May 13	1,170	Apr 25	4,540	Apr 3, 1999
LOWEST DAILY MEAN	7.4	Aug 10	6.5	Aug 28	2.7	Sep 19, 2000
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 4	7.0	Aug 22	3.2	Sep 17, 2000
MAXIMUM PEAK FLOW	---		8,750	May 4	18,700	Apr 3, 1999
MAXIMUM PEAK STAGE	---		14.55	May 4	19.13	Apr 3, 1999
INSTANTANEOUS LOW FLOW	---		5.5	Aug 28	0.99	Dec 22, 2000
10 PERCENT EXCEEDS	168		87		93	
50 PERCENT EXCEEDS	18		20		16	
90 PERCENT EXCEEDS	8.9		8.0		7.6	



HEADWATER DIVERSION CHANNEL BASIN

07021000 CASTOR RIVER AT ZALMA, MO

LOCATION.--Lat 37°08'48", long 90°04'32", in SE ¼ sec.29, T.29 N., R.9 E., Bollinger County, Hydrologic Unit 07140107, on downstream side of left bridge pier on State Highway 51 in Zalma and 2.5 mi downstream from Perkins Creek.

DRAINAGE AREA.--423 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1920 to September 1991, November 8, 2000 to current year. Prior to October 1921 monthly discharge only published in WSP 1311.

REVISED RECORDS.--WSP 1147: 1922-23(M). WSP 1281: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 350.38 ft above National Geodetic Vertical Datum of 1929. January 1920 to Oct. 1, 1925, at site 500 ft upstream at datum 49.82 ft lower; Oct. 1, 1925 to Nov. 12, 1930, at site 500 ft upstream at datum 0.18 ft higher; Nov. 13, 1930 to June 8, 1953, nonrecording gage at present site and datum; June 1953 to September 1991 and October 2000 to current year, water-stage recorder at present site and datum; Dec. 18, 1949 to September 1991, auxiliary nonrecording gage 6.0 mi downstream; October 2000 to current year, auxiliary water-stage recorder 6.0 mi downstream.

REMARKS.--No estimated daily discharges. Water-discharge records fair. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1915 reached a stage of 28.0 ft, present datum, from floodmarks by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

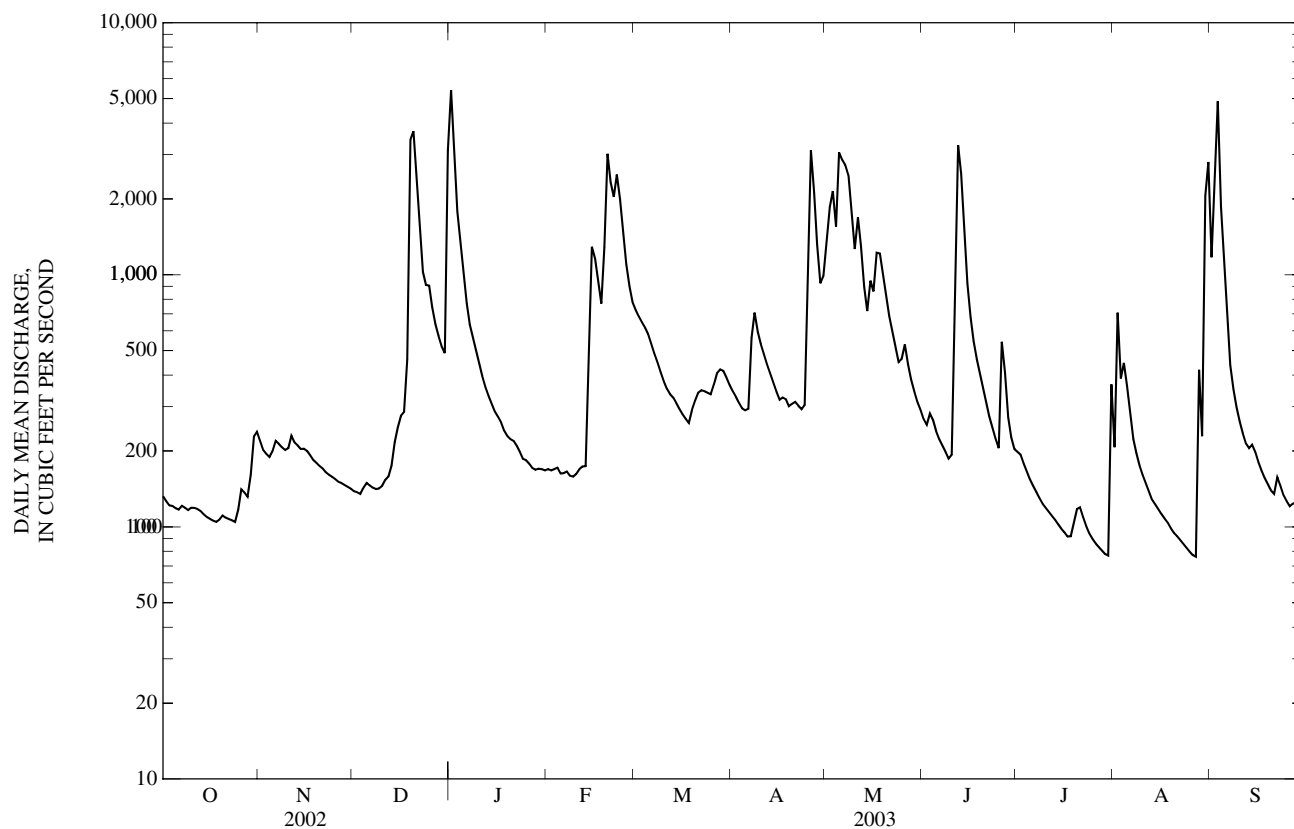
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	218	138	5,400	169	726	346	1,370	268	198	207	1,170
2	126	202	137	3,140	167	684	328	1,860	254	193	707	2,550
3	122	195	135	1,790	169	648	311	2,150	282	179	388	4,880
4	121	189	143	1,390	172	617	295	1,550	266	166	447	1,860
5	119	200	149	1,020	163	581	290	3,060	240	155	361	1,240
6	117	219	146	769	163	532	294	2,860	223	146	284	720
7	121	213	143	635	166	487	563	2,730	210	138	223	437
8	119	207	141	558	160	448	707	2,480	199	130	196	351
9	117	202	142	498	158	411	594	1,710	187	124	175	299
10	119	205	145	444	162	378	531	1,260	193	119	161	262
11	119	230	154	397	169	353	482	1,690	543	115	149	234
12	118	216	159	359	174	336	441	1,300	3,270	111	138	214
13	116	211	175	331	174	326	405	895	2,520	107	128	205
14	112	204	217	309	517	310	374	718	1,410	102	123	212
15	109	204	248	287	1,290	293	344	948	925	98	118	198
16	108	200	276	273	1,160	279	319	860	678	95	112	181
17	106	192	285	259	950	268	326	1,220	544	92	108	167
18	105	184	461	241	769	258	321	1,220	463	92	104	156
19	107	179	3,430	229	1,280	292	301	990	406	103	99	148
20	111	175	3,710	223	3,020	318	308	814	353	118	95	140
21	109	170	2,260	219	2,340	341	314	688	309	120	92	135
22	107	165	1,470	210	2,040	348	303	589	274	109	89	157
23	106	161	1,030	199	2,500	345	293	514	247	100	85	146
24	105	158	913	186	1,990	340	304	451	224	94	83	134
25	117	155	906	184	1,460	336	1,160	464	205	89	80	127
26	141	151	744	178	1,100	368	3,110	529	542	86	77	121
27	137	149	637	171	901	407	2,120	441	410	83	76	123
28	132	147	572	168	780	421	1,310	384	272	81	420	125
29	161	144	521	170	---	416	926	345	227	78	229	120
30	228	142	489	169	---	392	988	314	203	77	2,060	116
31	239	---	3,120	167	---	366	---	292	---	368	2,800	---
MEAN	126	186	748	664	867	407	624	1,184	545	125	336	564
MAX	239	230	3,710	5,400	3,020	726	3,110	3,060	3,270	368	2,800	4,880
MIN	105	142	135	167	158	258	290	292	187	77	76	116
IN.	0.34	0.49	2.04	1.81	2.13	1.11	1.65	3.23	1.44	0.34	0.92	1.49

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	160	401	593	713	716	1,027	1,020	825	426	166	111	124
MAX	1,576	2,045	5,507	3,735	2,279	3,521	3,645	3,944	4,082	1,195	336	883
(WY)	(1985)	(1985)	(1983)	(1937)	(1989)	(1945)	(1927)	(2002)	(1928)	(1976)	(2003)	(1965)
MIN	37.0	59.1	72.1	60.7	95.4	98.0	142	90.2	43.9	33.4	22.5	31.5
(WY)	(1921)	(1921)	(1956)	(1956)	(1934)	(1941)	(1971)	(1932)	(1936)	(1936)	(1936)	(1953)

07021000 CASTOR RIVER AT ZALMA, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	857		529		524	
HIGHEST ANNUAL MEAN					1,088	1950
LOWEST ANNUAL MEAN					149	1941
HIGHEST DAILY MEAN	21,600	May 14	5,400	Jan 1	42,700	Dec 4, 1982
LOWEST DAILY MEAN	61	Aug 12	76	Aug 27	16	Aug 31, 1936
ANNUAL SEVEN-DAY MINIMUM	67	Aug 6	83	Aug 21	19	Aug 25, 1936
MAXIMUM PEAK FLOW	---		5,780	Jan 1	97,100	Dec 4, 1982
MAXIMUM PEAK STAGE	---		20.11	Jan 1	29.92	Dec 4, 1982
INSTANTANEOUS LOW FLOW	---		74	Aug 27	16	Aug 31, 1936
ANNUAL RUNOFF (INCHES)	27.51		16.98		16.82	
10 PERCENT EXCEEDS	1,930		1,300		1,070	
50 PERCENT EXCEEDS	219		239		182	
90 PERCENT EXCEEDS	104		110		60	



HEADWATER DIVERSION CHANNEL BASIN

07021000 CASTOR RIVER AT ZALMA, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF REOCD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 06...	0910	Environmental	220	10.5	95	7.5	206	10.3	110	22.1	12.4	0.97	
JAN 23...	1350	Environmental	198	14.5	103	7.5	122	1.8	--	--	--	--	
MAR 12...	1240	Environmental	336	11.6	102	7.3	155	9.2	--	--	--	--	
MAY 14...	1350	Environmental	703	8.4	89	6.9	130	17.3	66	13.8	7.57	0.95	
JUL 22...	0900	Environmental	110	6.1	78	7.5	221	26.7	--	--	--	--	
SEP 04...	1350	Environmental	1,680	7.1	83	6.5	81	22.3	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 06...	1.88	100	100	122	<1	2.21	<0.20	4.1	111	<10	E.08	<0.04	<0.06
JAN 23...	--	81	80	98	<1	--	--	--	--	<10	E.07	<0.04	0.35
MAR 12...	--	73	73	89	<1	--	--	--	--	<10	E.08	<0.04	0.18
MAY 14...	1.54	56	56	68	<1	1.89	<0.17	5.1	87	37	0.20	<0.04	0.17
JUL 22...	--	115	117	143	<1	--	--	--	--	17	0.16	E.02	0.12
SEP 04...	--	30	30	36	<1	--	--	--	--	18	0.35	<0.04	0.14
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 06...	<0.008	<0.02	<0.04	<0.04	85k	125	275	E1	100	E.2	<0.04	<0.2	<6
JAN 23...	<0.008	<0.02	<0.04	<0.04	<1b	5k	5k	--	--	--	--	--	--
MAR 12...	<0.008	<0.02	<0.04	<0.04	2k	10k	9k	--	--	--	--	--	--
MAY 14...	E.004	<0.02	<0.04	0.04	56	82	68	3	237	0.3	<0.04	<0.2	<6
JUL 22...	<0.008	<0.02	<0.04	E.03	46	100	106	--	--	--	--	--	--
SEP 04...	<0.008	<0.18d	<0.04	0.05	290	1,180	1,320	--	--	--	--	--	--

07021000 CASTOR RIVER AT ZALMA, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 06...	38	<0.08	<1	45.1	<0.02	<0.5	2	E1
JAN 23...	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--
MAY 14...	35	E.06	M	81.9	<0.02	<0.5	M	E2
JUL 22...	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

MISSISSIPPI RIVER MAIN STEM

07022000 MISSISSIPPI RIVER AT THEBES, IL

LOCATION.--Lat 37°13'00", long 89°27'50", in NW ¼ sec.17, T.15 S., R.3 W., Alexander County, Hydrologic Unit 07140105, near center span on downstream side of railroad bridge at Thebes, 5.0 mi downstream from Headwater Diversion Channel, and at mile 43.7 above Ohio River.

DRAINAGE AREA.--713,200 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 1932 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to April 1941, published as "at Cape Girardeau, Mo".

GAGE HEIGHT: March 1933 to February 1938 and October 1939 to current year. Prior to April 1941, published as "at Cape Girardeau, Mo". Since November 1878, under name of "at Grays Point" in files of the U.S. Army Corps of Engineers; January 1879 to May of 1896, published as "at Grays Point"; since May 1896, published as "at Cape Girardeau" in reports of the Mississippi River Commission; February 1891 to February 1894 and since 1904, published as "at Cape Girardeau in reports of the National Weather Service.

REVISED RECORDS.--WSP 1341: 1844(M). WDR MO-76-1: Drainage area, WDR MO-98-1: Extreme outside period of record.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft above National Geodetic Vertical Datum of 1929. Mar. 17, 1933, to Dec. 21 1934, nonrecording gage; Dec. 22, 1934, to Apr. 4, 1941, water-stage recorder, at site 8.2 mi upstream at datum 4.65 ft higher; Apr. 5, 1941, to Sept. 30, 1941, nonrecording gage at present site and datum; Oct. 1, 1941, to Oct. 11, 1943, at datum 0.07 ft higher. Prior to Apr. 5, 1941, various auxiliary gages used. Since Oct. 1, 1943, former gage at Cape Girardeau used as auxiliary gage.

REMARKS.--Water-discharge records good. Natural flow of stream affected by many reservoirs and navigation dams in the upper Mississippi River Basin and by many reservoirs and diversions for irrigation in the Missouri River Basin. U.S. Army Corps of Engineers satellite telemeter and telemark at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 4, 1844, reached an elevation of 345.14 ft, present datum, at Grays Point, from floodmarks, discharge, 1,075,000 ft³/s, computed by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98,300	142,000	94,700	107,000	64,100	104,000	143,000	243,000	288,000	179,000	156,000	79,200
2	100,000	140,000	94,900	109,000	64,700	103,000	137,000	e248,000	271,000	173,000	148,000	85,400
3	102,000	134,000	94,900	113,000	66,000	103,000	133,000	e247,000	257,000	172,000	143,000	124,000
4	106,000	128,000	95,300	113,000	67,800	104,000	128,000	e268,000	244,000	175,000	137,000	136,000
5	110,000	127,000	92,900	108,000	69,200	104,000	124,000	e284,000	229,000	183,000	129,000	131,000
6	117,000	126,000	91,600	103,000	69,800	101,000	122,000	e312,000	217,000	185,000	125,000	139,000
7	125,000	127,000	84,200	99,600	68,400	97,600	127,000	370,000	206,000	183,000	123,000	129,000
8	128,000	127,000	76,800	97,900	67,800	96,900	132,000	400,000	201,000	181,000	122,000	113,000
9	132,000	125,000	75,300	95,000	70,400	96,200	134,000	412,000	198,000	180,000	116,000	101,000
10	134,000	126,000	75,800	92,600	71,000	95,800	135,000	420,000	187,000	183,000	114,000	93,500
11	133,000	122,000	76,200	89,400	72,400	92,900	137,000	434,000	195,000	202,000	109,000	87,300
12	132,000	115,000	77,700	86,300	72,100	87,300	138,000	454,000	243,000	228,000	104,000	81,500
13	138,000	112,000	78,900	82,000	70,600	83,600	136,000	473,000	265,000	239,000	100,000	77,800
14	146,000	111,000	79,700	77,300	69,900	83,800	135,000	468,000	304,000	240,000	97,300	77,600
15	154,000	112,000	81,500	72,100	71,800	90,400	132,000	441,000	321,000	238,000	94,300	78,000
16	152,000	112,000	85,700	66,100	74,600	102,000	126,000	408,000	303,000	238,000	92,900	83,800
17	152,000	112,000	89,600	62,500	86,100	114,000	124,000	378,000	274,000	232,000	91,300	98,700
18	159,000	110,000	91,300	63,500	94,700	115,000	124,000	355,000	254,000	228,000	88,800	109,000
19	159,000	109,000	105,000	69,000	99,000	115,000	127,000	345,000	244,000	232,000	85,700	107,000
20	164,000	108,000	117,000	71,200	110,000	119,000	127,000	336,000	235,000	242,000	82,500	95,800
21	167,000	108,000	122,000	69,200	113,000	132,000	128,000	328,000	225,000	241,000	80,900	87,600
22	164,000	104,000	120,000	66,400	117,000	165,000	129,000	319,000	211,000	228,000	78,500	87,700
23	161,000	102,000	116,000	65,000	127,000	179,000	129,000	317,000	198,000	211,000	76,000	91,900
24	157,000	101,000	112,000	63,400	126,000	169,000	136,000	316,000	185,000	200,000	75,400	95,900
25	154,000	101,000	109,000	63,500	119,000	158,000	158,000	323,000	175,000	198,000	77,300	98,200
26	152,000	102,000	106,000	64,600	114,000	154,000	201,000	342,000	173,000	192,000	80,100	98,400
27	153,000	100,000	102,000	66,400	110,000	152,000	220,000	343,000	197,000	185,000	79,500	99,000
28	143,000	98,600	93,600	66,500	108,000	144,000	237,000	333,000	214,000	180,000	77,600	95,900
29	133,000	99,300	86,700	65,400	---	139,000	242,000	322,000	209,000	173,000	75,500	93,800
30	136,000	97,100	84,800	65,100	---	146,000	241,000	310,000	193,000	165,000	86,100	88,600
31	142,000	---	95,300	64,400	---	148,000	---	300,000	---	162,000	85,100	---
MEAN	138,800	114,600	93,750	80,560	86,940	119,200	148,100	350,000	230,500	201,500	101,000	98,820
MAX	167,000	142,000	122,000	113,000	127,000	179,000	242,000	473,000	321,000	242,000	156,000	139,000
MIN	98,300	97,100	75,300	62,500	64,100	83,600	122,000	243,000	173,000	162,000	75,400	77,600
IN.	0.22	0.18	0.15	0.13	0.13	0.19	0.23	0.57	0.36	0.33	0.16	0.15

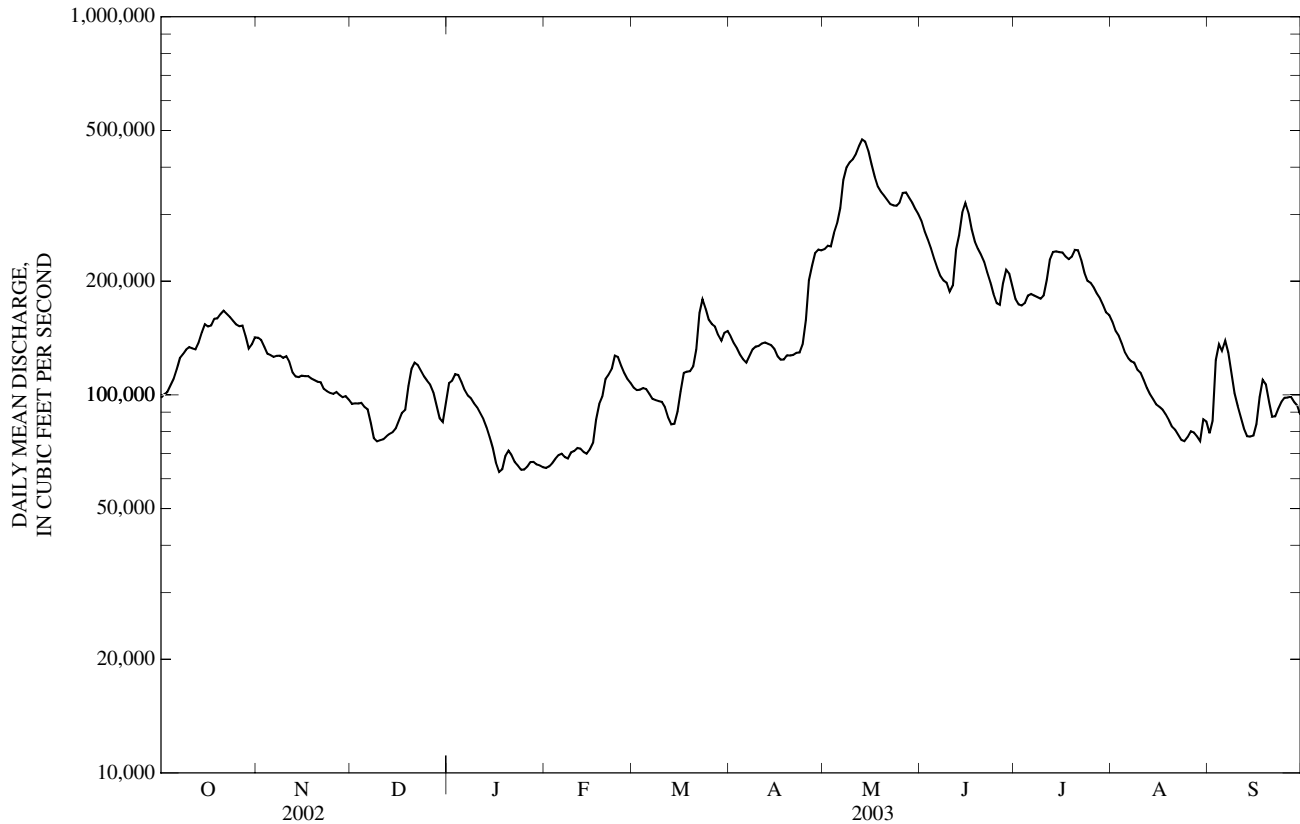
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2003, BY WATER YEAR (WY)

MEAN	149,700	156,600	141,400	133,800	163,500	250,500	327,000	326,000	289,400	239,000	156,300	142,300
MAX	589,600	389,000	531,700	333,300	350,400	542,000	731,000	655,800	584,100	765,500	768,000	539,300
(WY)	(1987)	(1986)	(1983)	(1973)	(1974)	(1985)	(1973)	(1973)	(1947)	(1993)	(1993)	(1993)
MIN	45,500	50,080	53,850	33,650	46,920	80,260	115,600	88,170	72,350	73,290	45,000	59,890
(WY)	(1940)	(1940)	(1956)	(1940)	(1940)	(1934)	(1934)	(1934)	(1934)	(1936)	(1936)	(1937)

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1933 - 2003	
ANNUAL MEAN	207,400		147,500		206,700	
HIGHEST ANNUAL MEAN					446,000	
LOWEST ANNUAL MEAN					71,730	
HIGHEST DAILY MEAN	828,000	May 18	473,000	May 13	978,000	Aug 7, 1993
LOWEST DAILY MEAN	75,300	Dec 9	62,500	Jan 17	24,700	Jan 21, 1940
ANNUAL SEVEN-DAY MINIMUM	77,200	Dec 8	65,000	Jan 23	26,700	Jan 20, 1940
MAXIMUM PEAK FLOW	---		478,000	May 13	996,000	Aug 7, 1993
MAXIMUM PEAK STAGE	---		33.33	May 13	45.91	May 23, 1995
INSTANTANEOUS LOW FLOW	---		62,000	Jan 17	23,400	Dec 13, 1937
ANNUAL RUNOFF (INCHES)	3.95		2.81		3.94	
10 PERCENT EXCEEDS	414,000		255,000		403,000	
50 PERCENT EXCEEDS	154,000		122,000		166,000	
90 PERCENT EXCEEDS	99,500		75,700		75,900	

e Estimated



07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued
(National Stream-Quality Accounting Network)

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURE: October 1974 to September 1981.

SUSPENDED-SEDIMENT: October 1980 to current year.

REMARKS.--National Stream-Quality Accounting Network (NASQAN) station January 1973 to September 1986. Illinois Environmental Protection Agency station October 1986 to September 1994 (during this period, samples were analyzed by the Illinois EPA). Re-established as a NASQAN station October 1994 to current year. Sediment records fair except for estimated daily loads, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 705 microsiemens per centimeter, Aug. 5-7, 1980; minimum daily, 272 microsiemens per centimeter, Apr. 6, 1979.

WATER TEMPERATURE: Maximum daily, 31.5 °C, July 10, 11, 1975, and July 17, 1977; minimum daily, 0.0 °C, on several days during winter periods.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 3,890 mg/L, Dec. 22, 1985; minimum daily mean, 13 mg/L, Jan. 28, 1981.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 6,280,000 tons, Mar. 1, 1985; minimum daily, 2,530 tons, Jan. 28, 1981.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATION.--Maximum daily mean, 944 mg/L, May 14; minimum daily mean, 53 mg/L, Jan. 24.

SUSPENDED-SEDIMENT LOAD.--Maximum daily, 1,190,000 tons, May 14; minimum daily 9,150 tons, Jan. 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)
OCT 23...	1355	Environmental	160,000	E42	E.185	E.136	9.4	91	8.2	466	13.9	190
DEC 09...	1515	Environmental	75,200	19	0.127	0.092	13.6	103	8.4	614	4.0	230
09...	1523	Blank	--	--	<0.004	<0.004	--	--	--	--	--	--
JAN 13...	1445	Environmental	81,600	20	0.120	0.088	14.8	110	8.5	598	3.0	240
FEB 18...	1500	Environmental	95,700	23	0.115	0.086	14.4	105	8.4	639	2.2	250
MAR 05...	1500	Environmental	103,000	25	0.123	0.092	13.9	107	8.7	555	3.8	220
APR 01...	0940	Environmental	144,000	34	0.123	0.092	10.5	96	8.1	513	10.9	200
10...	0945	Environmental	134,000	30	0.121	0.090	10.5	96	8.5	550	10.9	200
28...	1435	Environmental	240,000	47	0.130	0.096	7.5	77	7.8	503	15.9	190
MAY 07...	1415	Environmental	372,000	180	0.173	0.130	8.0	86	7.8	400	17.9	150
07...	1425	Replicate	--	190	0.173	0.129	--	--	--	--	--	150
13...	1005	Environmental	472,000	400	0.156	0.115	6.1	65	7.9	435	18.4	160
JUN 23...	1420	Environmental	197,000	140	0.138	0.100	6.0	75	8.0	506	25.9	200
23...	1430	Replicate	--	160	0.139	0.100	6.0	75	8.0	502	25.9	200
JUL 09...	1430	Environmental	180,000	68	0.131	0.094	10.5	140	8.0	530	30.0	230
09...	1438	Blank	--	--	--	--	--	--	--	--	--	--
21...	1450	Environmental	241,000	87	0.141	0.103	7.3	97	7.8	516	28.4	220
21...	1458	Blank	--	--	--	--	--	--	--	--	--	--
AUG 06...	1400	Environmental	125,000	31	0.138	0.100	8.5	113	8.1	581	28.8	230
SEP 10...	1425	Environmental	93,100	79	0.146	0.107	6.1	74	7.9	424	25.2	170

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end field, mg/L as CaCO ₃ (39036)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)
OCT 23...	46.2	18.0	3.68	25.7	142	143	174	<1	19.1	0.20	9.84	59.2	285
DEC 09...	56.3	21.6	3.96	40.8	177	176	215	<1	28.4	0.30	7.94	92.9	400
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	59.4	22.6	3.50	34.3	179	180	208	6	31.5	0.29	7.51	66.8	366
FEB 18...	58.2	24.3	3.92	40.5	187	188	211	9	42.8	0.28	5.87	76.5	395
MAR 05...	53.1	21.1	4.18	35.7	174	174	170	21	37.9	0.26	6.44	66.5	360
APR 01...	50.3	19.0	4.92	28.6	154	154	188	<1	30.6	0.25	4.52	52.7	311
10...	48.4	18.9	4.50	34.0	156	156	174	8	38.3	0.27	4.07	59.0	320
28...	46.2	19.2	4.39	29.8	149	151	184	<1	32.2	0.24	3.40	59.5	311
MAY 07...	37.3	14.0	4.34	19.4	114	115	140	<1	22.4	0.20	5.68	41.7	239
07...	37.3	14.0	4.41	19.4	--	--	--	--	22.5	0.20	5.66	42.1	237
13...	42.2	13.5	4.70	19.1	121	121	148	<1	24.0	0.24	5.69	46.0	261
JUN 23...	50.4	19.0	3.91	20.6	144	146	178	<1	23.6	0.30	5.02	51.9	288
23...	50.1	19.2	3.84	20.2	--	--	--	--	24.1	0.30	4.90	51.9	281
JUL 09...	55.0	21.3	4.29	25.8	152	153	186	<1	22.7	0.30	7.14	61.3	317
09...	0.02	0.021	--	0.11	--	--	--	--	--	--	<0.02	--	--
21...	55.2	20.1	4.05	22.0	154	154	188	<1	24.0	0.30	11.9	55.2	305
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	57.4	20.8	5.36	29.2	174	173	211	<1	27.0	0.40	6.52	75.1	363
SEP 10...	40.0	16.2	5.02	24.3	120	121	148	<1	20.1	0.30	6.65	53.2	262

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
OCT 23...	E.38	E.64	<0.04	E1.50	E.008	E.112	E.35	E.136	E.22	E2.8	<0.1	E2.8	E6.1
DEC 09...	0.39	0.94	0.07	1.34	E.005	0.058	0.45	0.073	0.181	2.7	<0.1	2.7	4.5
09...	--	--	--	--	--	--	<0.02	--	--	<0.1	<0.1	<0.1	0.5
JAN 13...	0.42	0.94	0.09	1.72	0.011	0.053	0.33	0.068	0.165	2.4	<0.1	2.4	4.2
FEB 18...	0.39	1.1	0.04	1.50	0.016	<0.007	0.59	0.017	0.178	3.2	<0.1	3.2	4.0
MAR 05...	0.33	1.0	<0.04	1.49	0.017	E.005	0.46	0.017	0.184	2.8	<0.1	2.8	4.4
APR 01...	0.44	1.1	E.04	1.71	0.021	0.072	0.49	0.093	0.22	2.9	<0.1	2.9	4.7
10...	0.47	1.0	0.05	1.34	0.018	0.058	0.50	0.085	0.22	3.1	<0.1	3.0	4.6
28...	0.48	1.1	0.10	1.23	0.033	0.074	0.51	0.088	0.28	3.6	0.2	3.4	4.9
MAY 07...	0.50	1.8	E.04	1.43	0.072	0.075	0.64	0.088	--	4.2	<0.1	4.2	5.5
07...	0.49	1.8	E.03	1.43	0.072	0.073	0.70	0.087	--	5.3	0.2	5.1	5.5
13...	0.47	2.1	<0.04	2.26	0.054	0.087	0.63	0.102	0.73	5.9	0.1	5.8	5.1
JUN 23...	0.42	1.2	<0.04	2.98	0.032	0.097	0.52	0.117	0.34	4.4	<0.1	4.4	4.9
23...	0.40	1.3	<0.04	3.00	0.027	0.100	0.80	0.115	0.34	6.4	<0.1	6.4	4.7
JUL 09...	0.38	0.82	<0.04	2.96	0.016	0.126	0.37	0.134	0.28	2.9	<0.1	2.8	4.9
09...	--	--	<0.015	<0.022	<0.002	<0.007	--	--	--	--	--	--	--
21...	0.42	0.94	<0.04	3.80	E.006	0.171	0.46	0.187	0.36	4.0	<0.1	4.0	4.6
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	0.41	0.96	<0.04	2.29	0.014	0.134	0.52	0.154	0.27	3.6	<0.1	3.6	4.6
SEP 10...	0.38	0.86	<0.04	0.98	0.048	0.112	0.54	0.137	0.30	4.3	<0.1	4.3	4.7

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Pheo- phytin a, phyto- plank- ton, µg/L (62360)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Alum- inum, water, ftrd, µg/L (01106)	Anti- mony, water, ftrd, µg/L (01095)	Arsenic water, ftrd, µg/L (01000)	Barium, water, ftrd, µg/L (01005)	Beryll- ium, water, ftrd, µg/L (01010)	Boron, water, ftrd, µg/L (01020)	Cadmium water, ftrd, µg/L (01025)	Chrom- ium, water, ftrd, µg/L (01030)
OCT 23...	14.3	240	345k	4k	21.0	--	--	1.9	--	--	58	--	--
DEC 09...	21.0	120	315k	41	67.7	--	--	1.7	--	--	90	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	18.1	85k	210	84	38.9	3	E.27	1.4	66	<0.06	66	E.03	<0.8
FEB 18...	23.7	44	230	148	83.3	--	--	1.3	--	--	85	--	--
MAR 05...	13.0	110	224	1,040	81.2	2	E.19	1.2	63	<0.06	76	E.02	<0.8
APR 01...	E27.1	78	120	360	E35.2	--	--	1.5	--	--	58	--	--
10...	27.5	330	250	38k	38.8	--	--	1.6	--	--	64	--	--
28...	E35.1	230	110	120	E31.6	2	E.25	1.6	66	<0.06	54	E.03	<0.8
MAY 07...	E40.8	280	470	1,400	E23.8	--	--	1.3	--	--	42	--	--
07...	E53.3	--	--	--	E37.4	--	--	1.3	--	--	43	--	--
13...	16.6	600	640	1,100	9.4	2	E.25	1.5	75	<0.06	51	E.03	<0.8
JUN 23...	19.7	46	132	58	13.0	--	--	2.0	--	--	57	--	--
23...	--	--	--	--	--	--	--	2.0	--	--	55	--	--
JUL 09...	11.0	2k	45	70	16.6	--	--	2.5	--	--	54	--	--
09...	--	--	--	--	--	<2	<0.30	<0.3	Mn	<0.06	<7	<0.04	<0.8
21...	--	110	440	660	--	4	0.30	2.8	73	<0.06	58	E.02	<0.8
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	32.8	21	29	11k	62.0	--	--	3.5	--	--	86	--	--
SEP 10...	10.3	90	76	32k	16.9	--	--	2.3	--	--	106	--	--
Date	Cobalt water, ftrd, µg/L (01035)	Copper, water, ftrd, µg/L (01040)	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lithium water, ftrd, µg/L (01130)	Mangan- ese, water, ftrd, µg/L (01056)	Molyb- denum, water, ftrd, µg/L (01060)	Nickel, water, ftrd, µg/L (01065)	Selen- ium, water, ftrd, µg/L (01145)	Silver, water, ftrd, µg/L (01075)	Stront- ium, water, ftrd, µg/L (01080)	Vanad- ium, water, ftrd, µg/L (01085)	Zinc, water, ftrd, µg/L (01090)
OCT 23...	--	--	E6	--	12.3	--	--	--	0.8	--	186	2.4	--
DEC 09...	--	--	E7	--	21.6	--	--	--	1.5	--	297	1.8	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	0.31	1.8	15	E.05	15.5	12.1	2.5	3.63	1.2	<0.20	266	1.3	2
FEB 18...	--	--	E10	--	16.5	--	--	--	1.2	--	268	2.5	--
MAR 05...	0.39	1.5	11	<0.08	13.0	5.0	2.1	4.32	1.0	<0.20	233	1.6	1
APR 01...	--	--	13	--	9.4	--	--	--	0.9	--	188	2.5	--
10...	--	--	E6	--	11.0	--	--	--	0.8	--	198	2.3	--
28...	0.29	1.6	E6	0.10	11.2	2.1	2.1	2.99	0.9	<0.20	186	2.8	1
MAY 07...	--	--	E7	--	7.2	--	--	--	0.6	--	124	2.2	--
07...	--	--	E5	--	7.2	--	--	--	0.6	--	126	2.2	--
13...	0.19	1.8	<10	<0.08	8.3	0.9	1.9	3.35	1.0	<0.20	167	2.9	M
JUN 23...	--	--	<8	--	10.5	--	--	--	1.0	--	192	3.4	--
23...	--	--	<8	--	10.1	--	--	--	1.1	--	193	3.3	--
JUL 09...	--	--	<8	--	14.7	--	--	--	1.3	--	230	4.5	--
09...	<0.01	<0.2	<8	<0.08	<0.5	<0.2	<0.3	<0.06	<0.5	<0.20	<0.20	<0.1	<1
21...	0.20	2.1	E8	0.13	10.3	0.5	3.0	3.31	1.3	<0.20	202	4.5	1
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	--	--	<8	--	17.5	--	--	--	1.5	--	255	5.9	--
SEP 10...	--	--	<8	--	11.0	--	--	--	0.8	--	200	3.6	--

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	2,6-Di-ethyl-aniline water fltrd 0.7µ GF (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7µ GF (82686)	Ben- flur- alin, water, fltrd 0.7µ GF (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd 0.7µ GF (82680)	Carbo- furan, water, fltrd 0.7µ GF (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF (82687)
OCT 23...	<0.006	E.036	0.010	<0.004	<0.005	0.095	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
DEC 09...	<0.006	E.027	0.218	0.017	<0.005	0.093	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	<0.006	E.027	0.060	<0.004	<0.005	0.086	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
FEB 18...	<0.006	E.030	0.017	<0.004	<0.005	0.102	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
MAR 05...	<0.006	E.019	0.017	<0.004	<0.005	0.143	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
APR 01...	<0.006	E.031	0.013	<0.004	<0.005	0.156	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
10...	<0.006	E.015	0.015	<0.004	<0.005	0.090	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
28...	<0.006	E.038	0.126	0.019	<0.005	1.36	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
MAY 07...	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r
07...	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r
13...	<0.006	E.068	1.10	0.048	<0.005	3.17	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
JUN 23...	<0.006	E.148	0.226	0.030	<0.005	0.902	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	<0.006	E.112	0.115	<0.010	<0.005	1.05	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<0.006	E.121	0.078	0.007	<0.005	0.703	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
21...	<0.006	<0.006	<0.006	<0.004	<0.005	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
AUG 06...	<0.006	E.083	0.031	<0.004	<0.005	0.360	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006
SEP 10...	<0.006	E.042	0.020	E.004n	<0.005	0.188	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	Diazi- non, water, fltrd, µg/L (39572)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µ GF µg/L (82677)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7µ GF µg/L (82663)	Etho- prop, water, fltrd 0.7µ GF µg/L (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)
OCT 23...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
DEC 09...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
FEB 18...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
MAR 05...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
APR 01...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
10...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
28...	<0.018	<0.003	0.008	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.030
MAY 07...	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r
07...	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r
13...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.090
JUN 23...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.100
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
21...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
AUG 06...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006
SEP 10...	<0.018	<0.003	<0.005	<0.005	<0.02	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd, 0.7µ GF µg/L (82671)	Naprop- amide, water, fltrd, 0.7µ GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd, 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Pron- amide, water, fltrd, 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd, 0.7µ GF µg/L (82679)
OCT 23...	0.023	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
DEC 09...	0.028	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	0.025	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
FEB 18...	0.024	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
MAR 05...	0.029	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
APR 01...	0.036	E.003n	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
10...	0.025	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	Mn	<0.004	<0.010	<0.011
28...	0.182	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
MAY 07...	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r
07...	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r	--r
13...	0.890	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
JUN 23...	0.466	0.012	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	0.206	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	0.188	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	0.02	<0.004	<0.010	<0.011
21...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
AUG 06...	0.115	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011
SEP 10...	0.067	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	0.02	<0.004	<0.010	<0.011

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Propar- gite, water, fltrd 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)	Uranium natural water, fltrd, µg/L (22703)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 23...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	81	86
DEC 09...	<0.02	0.007	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	85	34
09...	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	<0.02	0.031	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	2.06	89	29
FEB 18...	<0.02	0.020	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	89	46
MAR 05...	<0.02	0.072	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	1.89	83	37
APR 01...	<0.02	0.032	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	67	96
10...	<0.02	0.027	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	76	75
28...	<0.02	0.220	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	1.83	60	177
MAY 07...	--r	--r	--r	--r	--r	--r	--r	--r	--	69	565
07...	--r	--r	--r	--r	--r	--r	--r	--r	--	60	605
13...	<0.02	0.142	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	1.84	85	773
JUN 23...	<0.02	0.065	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	73	334
23...	--	--	--	--	--	--	--	--	--	86	268
JUL 09...	<0.02	0.021	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	62	192
09...	--	--	--	--	--	--	--	--	<0.02	--	--
21...	<0.02	0.021	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	2.33	87	191
21...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	--	--
AUG 06...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	94	158
SEP 10...	<0.02	0.013	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	--	77	159

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)
OCTOBER			NOVEMBER			DECEMBER			
1	98,300	92	23,400	142,000	99	37,800	94,700	72	18,500
2	100,000	95	25,800	140,000	90	34,100	94,900	73	18,800
3	102,000	104	28,600	134,000	88	31,700	94,900	74	19,000
4	106,000	103	29,600	128,000	81	28,200	95,300	82	21,100
5	110,000	110	32,700	127,000	77	26,500	92,900	81	20,400
6	117,000	115	36,200	126,000	83	28,200	91,600	82	20,300
7	125,000	108	36,500	127,000	82	28,000	84,200	101	22,800
8	128,000	98	33,700	127,000	71	24,400	76,800	110	22,800
9	132,000	96	34,300	125,000	68	22,900	75,300	105	21,300
10	134,000	93	33,600	126,000	74	25,300	75,800	93	19,000
11	133,000	95	34,100	122,000	87	28,900	76,200	88	18,100
12	132,000	98	34,900	115,000	84	25,900	77,700	92	19,400
13	138,000	103	38,100	112,000	79	24,000	78,900	92	19,600
14	146,000	110	43,400	111,000	74	22,300	79,700	92	19,700
15	154,000	102	42,500	112,000	76	23,000	81,500	93	20,400
16	152,000	96	39,200	112,000	81	24,500	85,700	89	20,600
17	152,000	108	44,400	112,000	74	22,300	89,600	87	21,100
18	159,000	107	46,100	110,000	70	21,000	91,300	108	26,800
19	159,000	115	49,500	109,000	70	20,600	105,000	279	79,400
20	164,000	115	50,800	108,000	71	20,800	117,000	160	50,300
21	167,000	125	56,200	108,000	67	19,700	122,000	136	44,600
22	164,000	122	54,100	104,000	69	19,200	120,000	161	52,300
23	161,000	120	52,100	102,000	68	18,700	116,000	123	38,400
24	157,000	110	46,500	101,000	68	18,500	112,000	107	32,700
25	154,000	107	44,300	101,000	78	21,100	109,000	94	27,600
26	152,000	97	39,900	102,000	72	19,700	106,000	82	23,500
27	153,000	107	44,000	100,000	70	18,800	102,000	79	21,800
28	143,000	105	40,500	98,600	69	18,400	93,600	75	19,000
29	133,000	102	36,400	99,300	68	18,300	86,700	87	20,300
30	136,000	134	49,200	97,100	72	18,900	84,800	76	17,400
31	142,000	134	51,400	---	---	---	95,300	383	99,700
JANUARY			FEBRUARY			MARCH			
1	107,000	389	113,000	64,100	82	14,200	104,000	121	34,000
2	109,000	213	62,500	64,700	95	16,600	103,000	111	30,900
3	113,000	122	37,400	66,000	89	15,900	103,000	99	27,600
4	113,000	101	30,600	67,800	81	14,900	104,000	92	25,900
5	108,000	115	33,500	69,200	74	13,900	104,000	95	26,600
6	103,000	110	30,600	69,800	70	13,200	101,000	102	27,700
7	99,600	103	27,800	68,400	61	11,300	97,600	110	28,900
8	97,900	114	30,100	67,800	60	11,000	96,900	106	27,800
9	95,000	98	25,100	70,400	63	12,000	96,200	109	28,200
10	92,600	93	23,300	71,000	71	13,600	95,800	114	29,500
11	89,400	95	22,900	72,400	69	13,500	92,900	107	26,800
12	86,300	75	17,600	72,100	65	12,600	87,300	103	24,200
13	82,000	59	13,000	70,600	75	14,200	83,600	115	25,900
14	77,300	56	11,800	69,900	87	16,500	83,800	107	24,300
15	72,100	59	11,500	71,800	103	19,900	90,400	112	27,300
16	66,100	54	9,680	74,600	108	21,700	102,000	139	38,200
17	62,500	62	10,500	86,100	115	26,600	114,000	154	47,400
18	63,500	76	13,000	94,700	118	30,200	115,000	172	53,400
19	69,000	87	16,100	99,000	134	36,000	115,000	167	52,000
20	71,200	68	13,000	110,000	264	78,700	119,000	171	54,800
21	69,200	61	11,300	113,000	278	84,900	132,000	167	59,400
22	66,400	57	10,200	117,000	234	74,100	165,000	192	85,600
23	65,000	54	9,490	127,000	231	79,200	179,000	240	116,000
24	63,400	53	9,150	126,000	216	73,400	169,000	233	107,000
25	63,500	57	9,750	119,000	192	61,900	158,000	185	79,100
26	64,600	68	11,900	114,000	171	52,900	154,000	175	72,500
27	66,400	83	14,900	110,000	152	45,300	152,000	161	65,700
28	66,500	83	15,000	108,000	128	37,300	144,000	143	55,400
29	65,400	74	13,100	---	---	---	139,000	172	64,900
30	65,100	68	12,000	---	---	---	146,000	144	56,600
31	64,400	66	11,400	---	---	---	148,000	124	49,500

07022000 MISSISSIPPI RIVER AT THEBES, IL—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY),—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Day	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)	Mean discharge (cfs)	Mean concentration (mg/l)	Load (tons/ day)
APRIL			MAY			JUNE			
1	143,000	126	48,700	243,000	198	130,000	288,000	242	189,000
2	137,000	118	43,600	e248,000	222	149,000	271,000	243	178,000
3	133,000	114	40,900	e247,000	224	149,000	257,000	226	157,000
4	128,000	110	38,100	e268,000	230	166,000	244,000	230	152,000
5	124,000	124	41,400	e284,000	274	210,000	229,000	204	126,000
6	122,000	119	39,200	e312,000	410	345,000	217,000	201	117,000
7	127,000	116	39,600	370,000	597	599,000	206,000	177	98,600
8	132,000	130	46,200	400,000	568	613,000	201,000	182	98,800
9	134,000	107	38,700	412,000	471	525,000	198,000	172	92,000
10	135,000	114	41,500	420,000	450	510,000	187,000	168	85,200
11	137,000	124	45,600	434,000	463	542,000	195,000	251	134,000
12	138,000	134	49,900	454,000	591	726,000	243,000	531	350,000
13	136,000	105	38,600	473,000	817	1,040,000	265,000	583	417,000
14	135,000	112	40,700	468,000	944	1,190,000	304,000	508	417,000
15	132,000	117	41,700	441,000	932	1,110,000	321,000	442	384,000
16	126,000	123	41,900	408,000	839	924,000	303,000	300	246,000
17	124,000	110	36,800	378,000	743	759,000	274,000	249	185,000
18	124,000	101	33,800	355,000	615	591,000	254,000	233	160,000
19	127,000	110	37,700	345,000	517	481,000	244,000	224	147,000
20	127,000	108	36,900	336,000	442	402,000	235,000	276	175,000
21	128,000	107	36,900	328,000	377	334,000	225,000	289	176,000
22	129,000	108	37,800	319,000	339	292,000	211,000	266	151,000
23	129,000	98	34,400	317,000	300	257,000	198,000	306	164,000
24	136,000	109	40,300	316,000	298	254,000	185,000	301	150,000
25	158,000	176	76,600	323,000	286	249,000	175,000	254	120,000
26	201,000	337	183,000	342,000	288	266,000	173,000	231	108,000
27	220,000	223	132,000	343,000	289	268,000	197,000	393	209,000
28	237,000	185	119,000	333,000	281	252,000	214,000	355	205,000
29	242,000	180	118,000	322,000	279	243,000	209,000	255	144,000
30	241,000	189	123,000	310,000	260	218,000	193,000	248	129,000
31	---	---	---	300,000	262	212,000	---	---	---
JULY			AUGUST			SEPTEMBER			
1	179,000	216	105,000	156,000	154	64,600	79,200	168	35,900
2	173,000	178	83,500	148,000	157	62,600	85,400	161	37,100
3	172,000	170	79,200	143,000	152	58,700	124,000	183	61,500
4	175,000	164	77,700	137,000	149	55,000	136,000	196	72,100
5	183,000	213	105,000	129,000	162	56,400	131,000	153	54,200
6	185,000	205	102,000	125,000	153	51,700	139,000	184	69,000
7	183,000	179	88,200	123,000	168	55,700	129,000	221	77,100
8	181,000	166	81,400	122,000	150	49,400	113,000	222	68,000
9	180,000	170	82,400	116,000	159	49,900	101,000	202	55,300
10	183,000	166	82,100	114,000	168	51,800	93,500	174	43,900
11	202,000	181	98,900	109,000	161	47,700	87,300	151	35,700
12	228,000	222	137,000	104,000	148	41,600	81,500	144	31,800
13	239,000	259	167,000	100,000	152	41,200	77,800	132	27,800
14	240,000	296	192,000	97,300	140	36,800	77,600	124	26,100
15	238,000	310	199,000	94,300	139	35,500	78,000	122	25,600
16	238,000	270	173,000	92,900	137	34,400	83,800	119	26,900
17	232,000	234	147,000	91,300	135	33,200	98,700	124	33,000
18	228,000	203	125,000	88,800	132	31,600	109,000	135	39,900
19	232,000	196	123,000	85,700	134	30,900	107,000	143	41,200
20	242,000	211	138,000	82,500	142	31,700	95,800	134	34,700
21	241,000	219	143,000	80,900	137	29,900	87,600	142	33,700
22	228,000	227	140,000	78,500	133	28,200	87,700	129	30,500
23	211,000	205	116,000	76,000	119	24,300	91,900	124	30,700
24	200,000	191	104,000	75,400	120	24,500	95,900	132	34,100
25	198,000	182	97,200	77,300	122	25,500	98,200	129	34,300
26	192,000	177	92,100	80,100	111	24,000	98,400	109	29,000
27	185,000	177	88,300	79,500	123	26,400	99,000	105	28,200
28	180,000	167	81,400	77,600	123	25,700	95,900	110	28,600
29	173,000	164	76,400	75,500	111	22,700	93,800	130	32,900
30	165,000	159	70,900	86,100	165	38,700	88,600	121	28,900
31	162,000	154	67,600	85,100	180	41,400	---	---	---

e Estimated

ST. FRANCIS RIVER BASIN

07035800 ST. FRANCIS RIVER NEAR MILL CREEK, MO

LOCATION.--Lat 37°30'09", long 90°27'28", in NE ¼ sec.35, T.33 N., R.5 E., Madison County, Hydrologic Unit 08020202, on downstream side of Highway E bridge, 8.7 mi southwest of Mill Creek, and 2.9 mi downstream from Little St. Francis River.

DRAINAGE AREA.--505 mi².

PERIOD OF RECORD.--February 1987 to September 1997, October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 556.27 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	210	73	3,490	144	769	362	2,740	258	467	46	194
2	22	164	71	1,530	148	1,090	333	2,990	234	298	539	1,630
3	19	134	71	971	155	914	304	1,480	249	178	450	827
4	19	115	90	702	156	749	289	1,190	248	131	240	358
5	18	117	100	805	154	631	298	3,860	214	104	148	211
6	18	119	90	845	150	530	297	2,330	183	86	101	151
7	20	135	86	631	152	461	668	7,080	162	72	72	112
8	18	121	84	540	146	415	689	2,510	144	61	53	87
9	20	104	83	482	142	371	515	1,420	123	53	41	69
10	31	196	85	412	151	329	426	974	134	46	34	57
11	28	218	90	357	160	301	371	847	3,150	39	28	48
12	25	148	92	319	171	293	329	645	6,750	39	24	42
13	24	118	104	296	181	304	296	477	2,200	32	21	39
14	20	101	118	282	554	327	269	403	1,290	27	20	54
15	19	98	142	264	1,500	308	244	941	831	25	18	56
16	19	97	172	252	1,060	296	226	526	601	23	17	53
17	29	93	193	238	756	284	277	474	481	21	17	43
18	30	86	213	214	622	273	337	496	409	22	17	34
19	30	77	1,400	211	4,900	336	308	483	358	159	17	29
20	26	71	1,620	209	5,400	711	294	1,880	316	332	14	24
21	23	66	811	206	2,890	875	281	1,600	276	142	12	21
22	22	60	526	196	4,010	702	259	797	242	70	11	21
23	21	58	412	173	3,180	526	236	540	211	44	10	19
24	21	53	446	163	1,750	438	273	428	185	29	14	18
25	24	48	444	164	1,170	408	5,480	698	162	23	14	17
26	25	46	372	162	924	592	4,140	1,080	179	18	13	16
27	29	43	338	155	785	591	1,680	598	286	15	14	17
28	34	40	319	153	694	516	988	445	215	13	73	16
29	318	56	339	158	---	512	735	369	158	12	332	15
30	562	76	2,380	148	---	453	4,370	331	137	11	242	15
31	296	---	5,560	142	---	401	---	290	---	28	323	---
MEAN	59.2	102	546	480	1,150	507	852	1,320	680	84.5	96.0	143
MAX	562	218	5,560	3,490	5,400	1,090	5,480	7,080	6,750	467	539	1,630
MIN	18	40	71	142	142	273	226	290	123	11	10	15
IN.	0.14	0.23	1.25	1.10	2.37	1.16	1.88	3.01	1.50	0.19	0.22	0.32

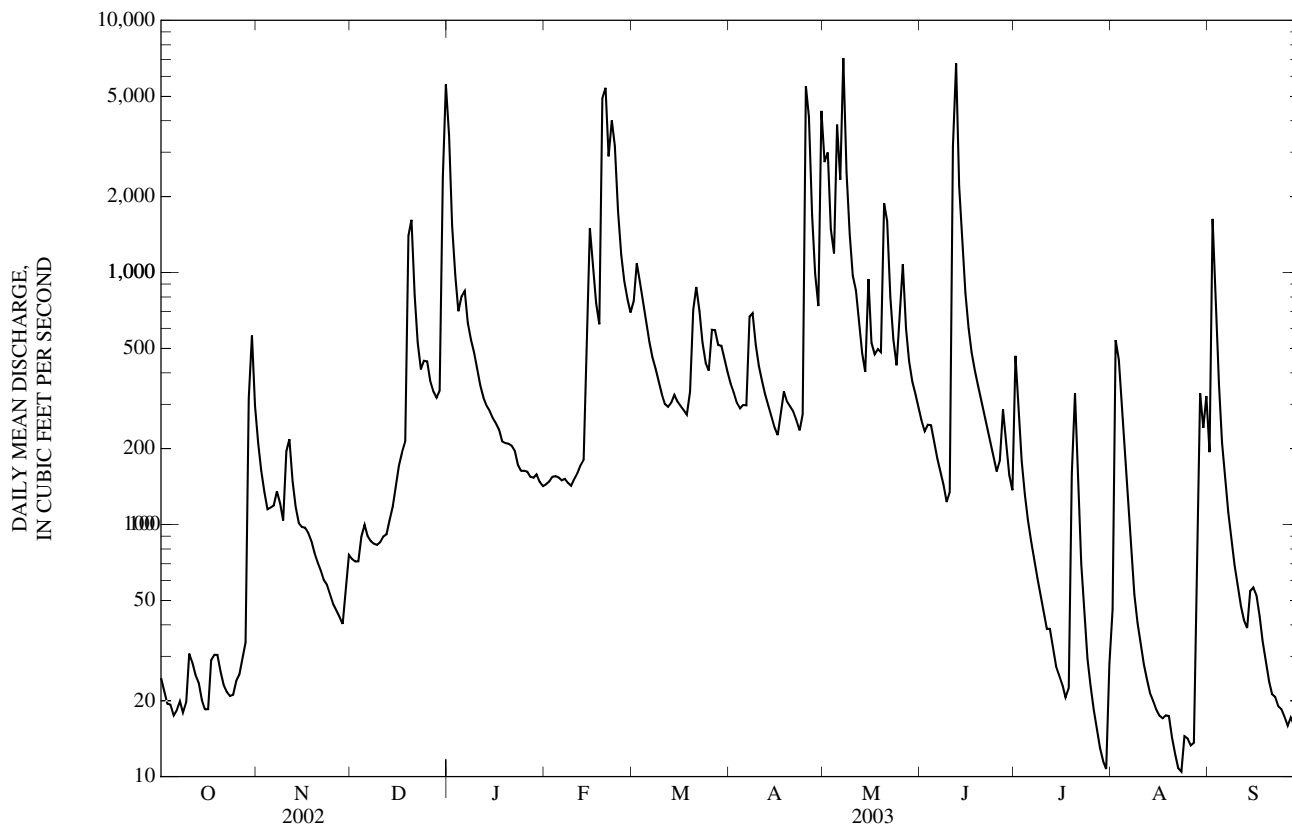
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	88.2	723	806	769	867	862	1,082	1,147	308	94.7	73.0	119
MAX	438	3,774	2,428	2,187	1,745	1,936	2,890	4,927	899	200	201	1,153
(WY)	(1994)	(1994)	(1991)	(1993)	(1989)	(2002)	(1994)	(2002)	(1997)	(2001)	(2002)	(1993)
MIN	12.9	23.9	32.7	141	153	304	159	64.5	16.4	28.2	4.18	11.5
(WY)	(2001)	(2000)	(1990)	(2000)	(1996)	(2001)	(2000)	(1987)	(1988)	(2002)	(1988)	(1987)

07035800 ST. FRANCIS RIVER NEAR MILL CREEK, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	901		497		590	
HIGHEST ANNUAL MEAN					949	
LOWEST ANNUAL MEAN					194	
HIGHEST DAILY MEAN	39,600	May 13	7,080	May 7	72,000	Nov 14, 1993
LOWEST DAILY MEAN	11	Jul 30,31, Aug 8	10	Aug 23	1.8	Aug 18, 1988
ANNUAL SEVEN-DAY MINIMUM	15	Jul 26	13	Aug 20	2.2	Aug 16, 1988
MAXIMUM PEAK FLOW	---		10,000	May 7	130,000 ^a	Nov 14, 1993
MAXIMUM PEAK STAGE	---		10.96	May 7	33.10	Nov 14, 1993
INSTANTANEOUS LOW FLOW	---		9.7	Aug 23	1.7	Aug 18, 1988
ANNUAL RUNOFF (INCHES)	24.23		13.36		15.86	
10 PERCENT EXCEEDS	1,680		1,070		1,140	
50 PERCENT EXCEEDS	150		194		183	
90 PERCENT EXCEEDS	21		20		16	

^a Discharge determined by indirect measurement of peak flow.



ST. FRANCIS RIVER BASIN

07036100 ST. FRANCIS RIVER NEAR SACO, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°23'06", long 90°28'27", in NE ¼ SE ¼ NE ¼ sec.10, T.31 N., R.5 E., Madison County, Hydrologic Unit 08020202, 3.5 mi northwest of Saco, and 1.3 mi downstream from Twelve Mile Creek.

DRAINAGE AREA.--664 mi².

PERIOD OF RECORD--November 1983 to September 1989, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 19...	0855	Environmental	296	10.5	91	8.1	269	8.7	130	26.3	14.6	2.54
JAN 07...	0920	Environmental	967	14.6	111	7.5	174	3.7	--	--	--	--
MAR 10...	1730	Environmental	626	12.7	107	8.2	175	7.5	--	--	--	--
MAY 20...	0920	Environmental	831	7.8	85	7.4	169	19.4	81	17.0	9.46	1.50
JUL 08...	0915	Environmental	227	5.5	74	7.2	263	28.6	--	--	--	--
SEP 04...	1620	Environmental	590	7.3	89	7.2	186	24.6	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
NOV 19...	7.01	121	120	147	<1	8.72	<0.2	16.6	150	<10	0.18	<0.04	<0.06
JAN 07...	--	58	57	70	<1	--	--	--	--	<10	0.14	<0.04	0.54
MAR 10...	--	67	68	81	<1	--	--	--	--	<10	0.13	<0.04	0.11
MAY 20...	4.01	68	67	81	<1	4.16	<0.2	11.0	110	<10	0.19	<0.04	0.14
JUL 08...	--	97	97	118	<1	--	--	--	--	<10	0.33	<0.04	0.15
SEP 04...	--	70	69	84	<1	--	--	--	--	<10	0.52	0.04	0.34

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 19...	<0.008	E.01	E.02	E.03	1k	9k	5k	2	22	0.5	E.02	<0.2	<6
JAN 07...	<0.008	E.01	E.03	E.03	<1b	110	81	--	--	--	--	--	--
MAR 10...	0.014	<0.02	E.02	E.03	<1b	4k	2k	--	--	--	--	--	--
MAY 20...	0.024	<0.02	E.02	0.05	100	175	225	2	83	0.4	<0.04	<0.2	<6
JUL 08...	<0.008	E.01	E.03	0.05	7k	13k	2k	--	--	--	--	--	--
SEP 04...	0.009	<0.18d	0.08	0.11	290	420	86	--	--	--	--	--	--

07036100 ST. FRANCIS RIVER NEAR SACO, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 19...	23	0.56	1	7.8	<0.02	<0.5	1	E1
JAN 07...	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--
MAY 20...	20	0.62	6	14.8	<0.02	<0.5	1	E2
JUL 08...	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

ST. FRANCIS RIVER BASIN

07037000 BIG CREEK AT DES ARC, MO

LOCATION.--Lat 37°17'35", long 90°37'45", in SE 1/4 sec.8, T.30 N., R.4 E., Iron County, Hydrologic Unit 08020202, on right bank 50 ft downstream of bridge on State Highway 143 at north edge of Des Arc, 420 ft above Black Creek, and 6.0 mi above Pond Creek.

DRAINAGE AREA.--99.6 mi².

PERIOD OF RECORD.--July 1983 to Sept. 30, 1997, Oct. 1, 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 507.89 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	45	22	793	27	146	112	378	72	31	35	72
2	17	44	21	461	27	151	103	626	69	30	621	1,100
3	17	43	20	315	27	149	94	418	72	29	362	419
4	17	39	24	237	27	135	88	318	63	27	202	208
5	19	39	24	193	27	124	101	303	56	26	135	139
6	20	40	20	169	29	113	125	287	50	24	99	106
7	21	36	18	145	31	106	346	724	48	22	78	86
8	21	32	19	126	28	95	311	528	44	21	64	72
9	20	31	19	112	29	84	237	365	40	20	54	62
10	22	37	18	100	29	75	193	285	54	18	47	56
11	23	59	19	89	30	67	163	289	302	17	41	51
12	23	52	20	78	33	61	141	215	548	17	36	48
13	21	47	27	70	36	69	124	175	370	16	33	50
14	20	45	44	64	116	79	111	150	263	16	31	53
15	19	45	61	59	381	80	102	152	194	14	28	47
16	18	45	73	55	304	77	94	136	152	14	25	40
17	17	41	92	50	232	73	107	148	123	14	23	37
18	18	37	98	45	187	71	104	145	103	14	21	36
19	19	35	458	49	689	230	104	143	90	21	20	34
20	21	32	460	41	769	604	101	149	78	22	19	32
21	21	30	285	38	458	472	92	200	66	19	17	30
22	19	29	212	37	392	341	86	152	57	14	17	29
23	19	28	167	89	408	261	79	120	50	13	16	28
24	18	28	187	148	322	210	98	103	44	13	15	27
25	21	27	192	74	246	184	1,190	130	39	12	14	25
26	23	25	163	31	207	186	923	193	52	11	13	24
27	24	23	141	30	178	175	529	157	49	11	13	26
28	24	23	127	29	156	160	348	125	41	10	63	25
29	55	23	118	28	---	153	255	104	37	9.4	45	24
30	64	22	327	27	---	135	521	90	34	8.7	68	24
31	53	---	979	27	---	124	---	80	---	11	63	---
MEAN	23.6	36.1	144	123	194	161	233	238	109	17.6	74.8	100
MAX	64	59	979	793	769	604	1,190	724	548	31	621	1,100
MIN	17	22	18	27	27	61	79	80	34	8.7	13	24
IN.	0.27	0.40	1.66	1.42	2.03	1.86	2.61	2.76	1.22	0.20	0.87	1.12

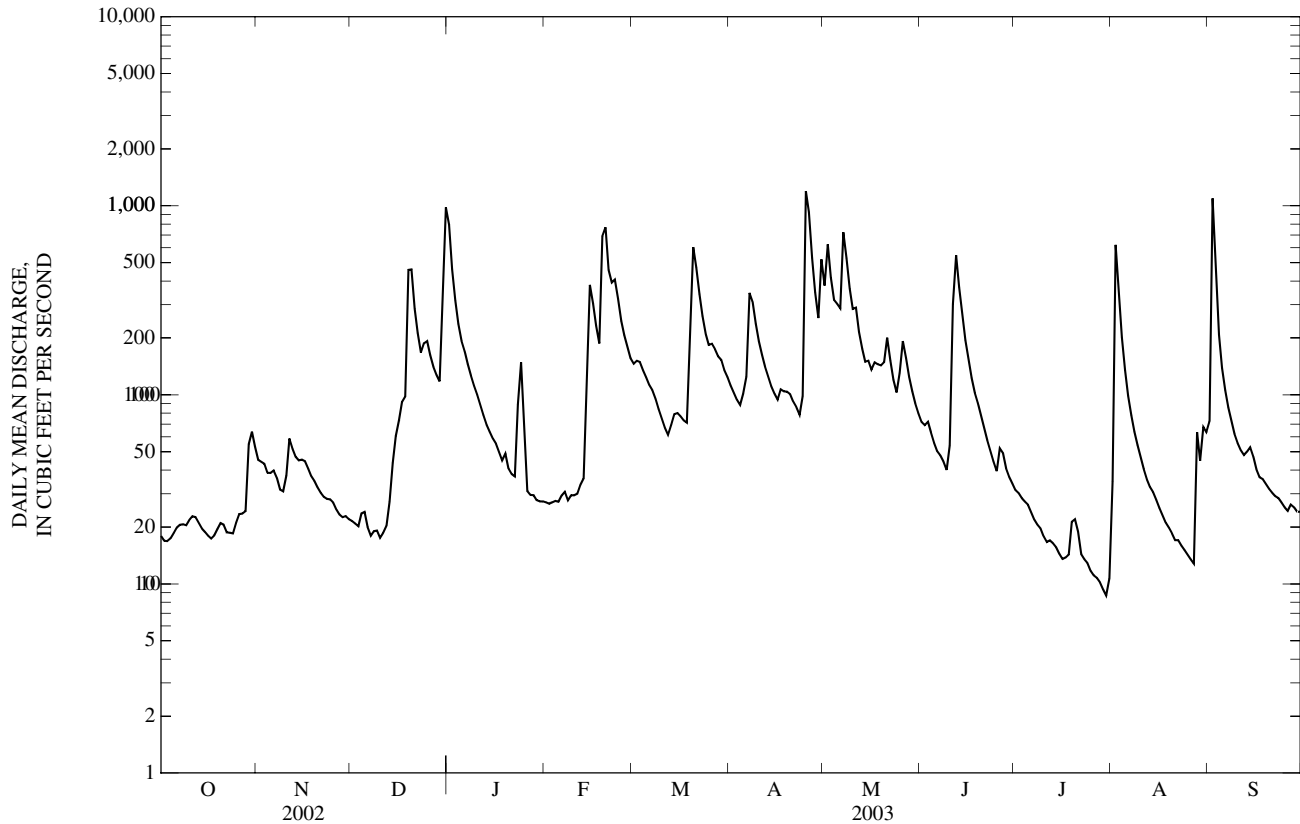
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	60.1	209	194	166	189	214	275	242	107	38.4	29.3	34.3
MAX	396	610	632	465	408	415	579	1,224	587	175	102	128
(WY)	(1985)	(1986)	(1988)	(1993)	(1999)	(2002)	(1994)	(2002)	(1985)	(2001)	(1985)	(1993)
MIN	16.1	22.5	25.5	37.0	38.5	83.0	45.3	28.9	15.0	11.9	7.67	6.50
(WY)	(2001)	(1996)	(1990)	(1984)	(1996)	(2001)	(2000)	(1987)	(1988)	(1991)	(1983)	(1983)

07037000 BIG CREEK AT DES ARC, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	222		121		146	
HIGHEST ANNUAL MEAN					267	
LOWEST ANNUAL MEAN					55.6	
HIGHEST DAILY MEAN	9,060	May 13	1,190	Apr 25	9,060	May 13, 2002
LOWEST DAILY MEAN	5.8	Aug 10	8.7	Jul 30	2.8	Sep 4, 1999
ANNUAL SEVEN-DAY MINIMUM	8.0	Aug 4	10	Jul 25	3.5	Sep 1, 1999
MAXIMUM PEAK FLOW	---		2,240	Apr 25	25,700 ^a	Nov 14, 1993
MAXIMUM PEAK STAGE	---		5.14	Apr 25	16.85	Nov 14, 1993
INSTANTANEOUS LOW FLOW	---		8.0	Jul 29,30	2.5	Sep 4, 1999
ANNUAL RUNOFF (INCHES)	30.29		16.43		19.95	
10 PERCENT EXCEEDS	386		313		297	
50 PERCENT EXCEEDS	46		55		54	
90 PERCENT EXCEEDS	18		19		16	

^a Discharge determined by indirect measurement of peak flow.



ST. FRANCIS RIVER BASIN

07037300 BIG CREEK AT SAM A. BAKER STATE PARK
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°15'40", long 90°30'23", in SE ¼ NE ¼ SW ¼ sec.21, T.30 N., R.5 E., Wayne County, Hydrologic Unit 08020202, at Bridge 435 on County Highway NN in Sam A. Baker State Park.

DRAINAGE AREA.--189 mi².

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 19...	1105	Environmental	59	9.7	87	8.2	298	10.3	150	31.7	18.1	1.36	
JAN 07...	1125	Environmental	181	12.7	100	7.7	210	5.2	--	--	--	--	
MAR 10...	1500	Environmental	126	13.1	112	7.6	204	8.0	--	--	--	--	
MAR 10...	1501	Replicate	--	13.0	111	7.6	204	8.0	--	--	--	--	
MAY 20...	1220	Environmental	246	8.3	89	7.6	207	18.5	110	22.0	12.7	1.34	
JUL 07...	1600	Environmental	37	6.4	87	7.9	275	29.3	--	--	--	--	
SEP 04...	1740	Environmental	286	8.1	98	7.9	226	24.0	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unflxed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unflxed titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unflxed titr., field, mg/L (00450)	Carbonate, wat unflxed titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 19...	3.95	138	137	168	<1	4.44	<0.2	14.4	166	<10	<0.10	<0.04	0.06
JAN 07...	--	95	95	115	<1	--	--	--	--	<10	<0.10	<0.04	0.42
MAR 10...	--	95	95	116	<1	--	--	--	--	<10	E.06	<0.04	0.18
MAR 10...	--	--	--	--	--	--	--	--	--	<10	E.07	<0.04	0.19
MAY 20...	2.89	95	96	117	<1	3.42	<0.2	8.0	130	<10	E.07	<0.04	0.14
JUL 07...	--	130	129	157	<1	--	--	--	--	<10	E.08	<0.04	0.16
SEP 04...	--	100	100	122	<1	--	--	--	--	<10	0.10	<0.04	0.30
Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, mg/L (01106)	Aluminum, water, unfltrd recoverable, mg/L (01105)	Arsenic water, fltrd, mg/L (01000)	Cadmium water, fltrd, mg/L (01025)	Cadmium water, unfltrd mg/L (01027)	Copper, water, fltrd, mg/L (01040)
NOV 19...	<0.008	<0.02	<0.04	<0.04	<1b	<1b	3k	<2	3	E.2	E.02	<0.2	<6
JAN 07...	<0.008	<0.02	<0.04	<0.04	<1b	4k	6k	--	--	--	--	--	--
MAR 10...	<0.008	<0.02	<0.04	<0.04	<1b	<1b	1k	--	--	--	--	--	--
MAR 10...	<0.008	<0.02	<0.04	<0.04	<1b	<1b	1k	--	--	--	--	--	--
MAY 20...	<0.008	<0.09	<0.04	<0.04	20	25	83	E1	15	E.2	E.02	<0.2	<6
JUL 07...	<0.008	<0.02	<0.04	<0.04	4k	5k	20	--	--	--	--	--	--
SEP 04...	<0.008	<0.18d	<0.04	<0.04	17k	30k	42	--	--	--	--	--	--

07037300 BIG CREEK AT SAM A. BAKER STATE PARK—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 19...	E8	0.10	<1	E2.2b	<0.02	<0.5	<1	<2
JAN 07...	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--
MAY 10...	--	--	--	--	--	--	--	--
MAY 20...	<10	E.04	<1	4.7	<0.02	<0.5	M	<2
JUL 07...	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

ST. FRANCIS RIVER BASIN

07037500 ST. FRANCIS RIVER NEAR PATTERSON, MO

LOCATION.--Lat 37°11'40", long 90°30'12", in NE ¼ sec.16, T.29 N., R.5 E., Wayne County, Hydrologic Unit 08020202, near left bank on downstream side of bridge pier on State Highway 34, 1 mi upstream from Clark Creek, and 3 mi east of Patterson.

DRAINAGE AREA.--956 mi².

PERIOD OF RECORD.--October 1920 to Sept. 30, 1997, Oct. 1, 1998 to current year. Prior to June 1921, monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 732: 1922-23.

GAGE.--Water-stage recorder. Datum of gage is 370.45 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1938, nonrecording gage at site 50 ft upstream at datum 2.00 ft higher; Oct. 1, 1938, to Apr. 12, 1939, nonrecording gage; Apr. 13, 1939, to Sept. 5, 1956, water-stage recorder at site 50 ft upstream at present datum; Sept. 6, 1956, to Sept. 26, 1958, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineer satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1915 reached a stage of 33.8 ft, present datum, from floodmarks, discharge, 100,000 ft³/s, from rating curve extended above 55,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	589	108	9,180	176	1,480	920	4,360	544	255	87	327
2	85	432	129	4,370	170	1,570	836	5,540	500	353	1,110	2,730
3	81	359	132	2,800	173	1,820	764	4,070	493	396	1,060	2,820
4	82	306	146	2,060	177	1,590	701	2,650	463	289	751	1,310
5	78	284	158	1,670	175	1,410	679	4,230	442	230	517	782
6	79	272	165	1,680	182	1,250	785	4,780	405	193	359	555
7	83	257	169	1,570	184	1,090	1,180	6,770	367	169	269	430
8	79	243	163	1,310	174	960	1,740	6,710	332	148	211	349
9	79	245	160	1,160	171	845	1,550	3,480	304	133	169	289
10	84	254	162	1,020	174	744	1,290	2,520	317	122	138	244
11	87	245	168	879	175	658	1,110	2,340	2,200	110	114	210
12	89	381	174	742	188	593	982	1,920	7,970	104	96	185
13	91	342	209	637	226	571	865	1,490	5,760	98	83	177
14	91	281	286	553	579	578	768	1,220	2,860	88	76	185
15	87	257	355	491	2,230	594	684	1,270	1,920	82	67	167
16	82	235	399	456	2,760	562	614	1,800	1,390	78	60	153
17	78	218	465	423	2,130	538	605	1,510	1,070	71	54	144
18	76	205	550	385	1,710	510	649	1,500	845	68	48	137
19	81	198	980	339	2,790	596	714	1,420	733	140	47	127
20	85	183	3,070	331	10,000	1,320	711	1,260	615	119	66	116
21	93	172	2,650	323	5,460	1,830	664	2,810	521	166	67	110
22	93	160	1,830	303	4,360	1,800	624	1,980	455	235	52	111
23	90	152	1,450	282	5,680	1,510	577	1,340	404	171	42	102
24	85	145	1,330	224	3,850	1,260	588	1,030	356	128	36	96
25	100	138	1,390	218	2,740	1,130	4,530	964	315	103	32	90
26	108	131	1,290	210	2,130	1,140	10,500	1,540	405	88	28	86
27	105	123	1,140	200	1,820	1,320	4,650	1,500	335	77	26	92
28	110	118	1,040	190	1,600	1,270	2,830	1,080	326	68	170	90
29	215	114	976	192	---	1,180	2,010	856	337	61	109	87
30	297	110	1,080	187	---	1,110	3,260	713	295	60	164	85
31	881	---	5,920	183	---	1,020	---	623	---	84	312	---
MEAN	124	238	911	1,115	1,864	1,092	1,613	2,428	1,109	145	207	413
MAX	881	589	5,920	9,180	10,000	1,830	10,500	6,770	7,970	396	1,110	2,820
MIN	76	110	108	183	170	510	577	623	295	60	26	85
IN.	0.15	0.28	1.10	1.35	2.03	1.32	1.88	2.93	1.29	0.17	0.25	0.48

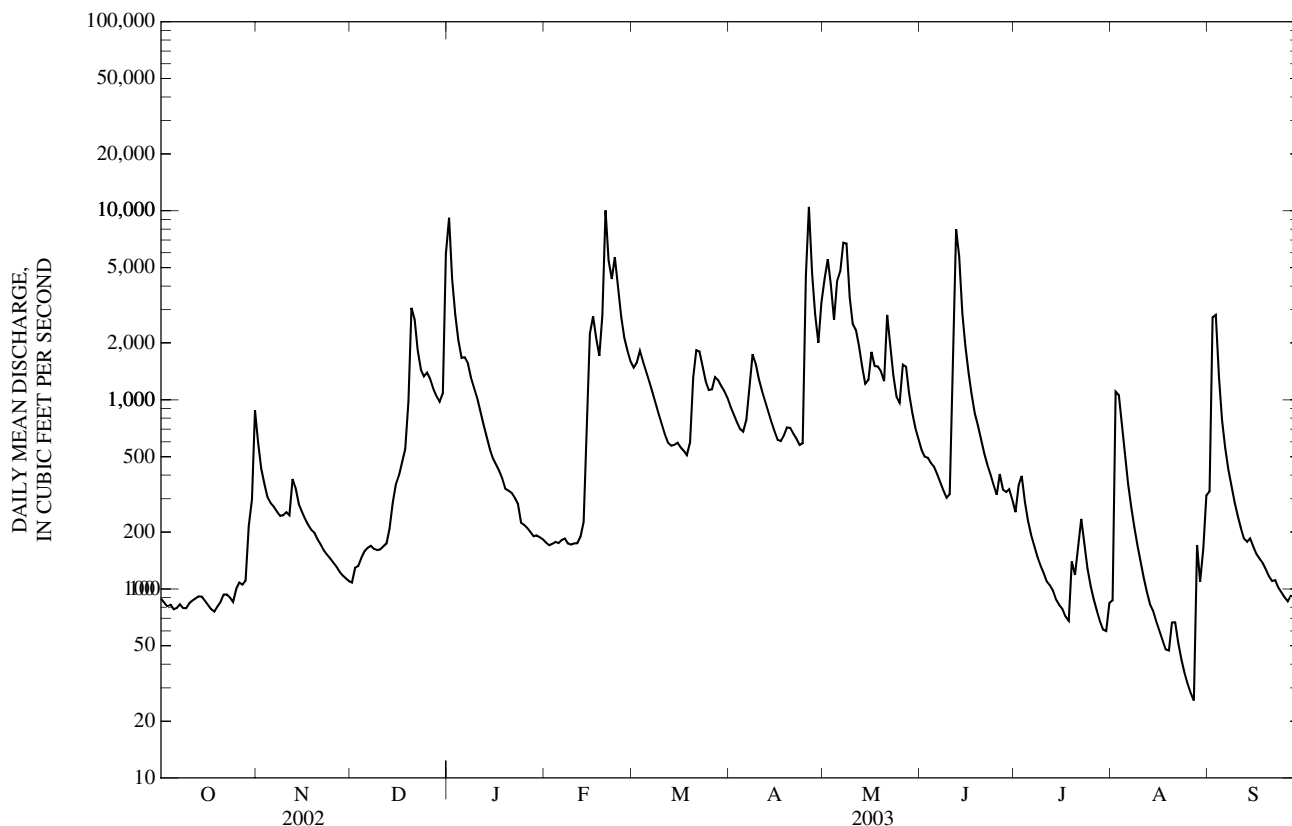
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	351	1,011	1,317	1,451	1,591	2,116	2,361	1,830	908	323	213	243
MAX	3,391	6,214	12,380	6,725	4,577	6,981	9,221	10,490	8,724	2,513	1,478	2,103
(WY)	(1985)	(1994)	(1983)	(1950)	(1951)	(1945)	(1927)	(2002)	(1928)	(1957)	(1985)	(1965)
MIN	29.0	48.1	60.9	64.9	125	178	287	139	33.6	21.3	11.2	14.8
(WY)	(1954)	(1954)	(1954)	(1956)	(1963)	(1941)	(1981)	(1930)	(1936)	(1936)	(1936)	(1955)

07037500 ST. FRANCIS RIVER NEAR PATTERSON, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	1,914		932		1,140	
HIGHEST ANNUAL MEAN					2,731	
LOWEST ANNUAL MEAN					343	
HIGHEST DAILY MEAN	56,200	May 13	10,500	Apr 26	107,000	Dec 4, 1982
LOWEST DAILY MEAN	34	Aug 11	26	Aug 27	8.0	Aug 28, 1936
ANNUAL SEVEN-DAY MINIMUM	53	Aug 6	40	Aug 21	8.4	Aug 26, 1936
MAXIMUM PEAK FLOW	---		13,300	Apr 26	155,000 ^a	Dec 3, 1982
MAXIMUM PEAK STAGE	---		15.14	Apr 26	35.77	Dec 3, 1982
INSTANTANEOUS LOW FLOW	---		24	Aug 27, 28	8.0	Aug 28, 1936
ANNUAL RUNOFF (INCHES)	27.18		13.23		16.20	
10 PERCENT EXCEEDS	3,900		2,270		2,330	
50 PERCENT EXCEEDS	360		349		340	
90 PERCENT EXCEEDS	86		85		54	

^a Discharge determined by indirect measurement of peak flow.



07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO

LOCATION.--Lat 36°55'42", long 90°17'04", in NW ¼ SE ¼ sec.3, T.26 N., R.7 E., Wayne County, Hydrologic Unit 08020202, at intake tower at dam on St. Francis River, 0.8 mi southwest of Wappapello, and at mile 309.

DRAINAGE AREA.--1,310 mi², approximately.

PERIOD OF RECORD.--April 1941 to current year.

GAGE.--Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 19, 1941, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by earthfill type dam. Closure of channel at dam began July 10, 1940; river began to flow through outlet structure July 24, 1940. Stop logs placed in outlet structure and storage began Apr. 1, 1941; conservation pool level reached Apr. 20, 1941. Capacity at bottom of outlet tunnels (elevation, 339.0 ft), 2,600 ac-ft; at conservation pool level (elevation, 355.0 ft), 30,900 ac-ft; at spillway crest (elevation, 395.0 ft), 613,000 ac-ft; at maximum pool level (elevation, 410.4 ft), uncontrollable above spillway crest, 1,022,000 ac-ft. Lake is used for flood control, power and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

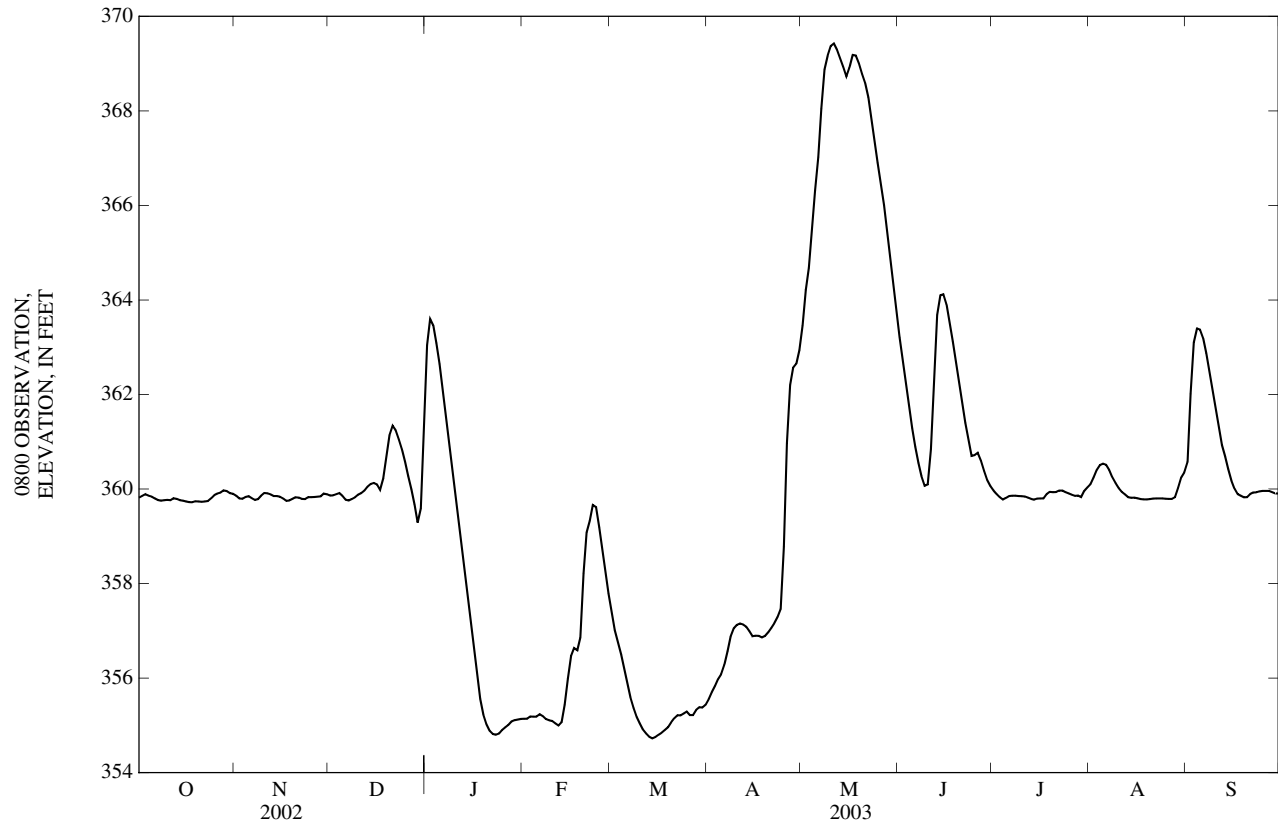
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 729,800 ac-ft, Apr. 16, 1945, elevation, 399.35 ft; minimum, since initial filling to conservation pool level, 23,340 ac-ft, Mar. 1-3, 1970; elevation, 352.20 ft, Sept. 26-27, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 159,000 ac-ft, May 11, 12, elevation, 369.45 ft, May 11; minimum, 29,800 ac-ft, Mar. 15, elevation, 354.72 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359.80	359.90	359.87	362.09	355.14	357.63	355.47	363.08	363.60	360.03	360.04	360.37
2	359.83	359.84	359.86	363.52	355.14	357.25	355.59	363.65	363.02	359.94	360.14	360.67
3	359.87	359.78	359.87	363.64	355.14	356.90	355.76	364.49	362.58	359.87	360.30	362.69
4	359.90	359.80	359.90	363.37	355.21	356.68	355.86	364.77	362.05	359.81	360.46	363.31
5	359.84	359.85	359.92	362.95	355.17	356.41	356.04	365.77	361.59	359.76	360.53	363.44
6	359.84	359.85	359.82	362.49	355.19	356.09	356.10	366.59	361.13	359.84	360.54	363.34
7	359.78	359.79	359.75	361.96	355.26	355.78	356.37	367.24	360.78	359.86	360.50	363.11
8	359.76	359.76	359.76	361.41	355.16	355.50	356.67	368.45	360.44	359.86	360.35	362.76
9	359.75	359.80	359.80	360.84	355.12	355.30	356.98	369.09	360.19	359.86	360.20	362.38
10	359.77	359.89	359.84	360.19	355.10	355.12	357.09	369.21	360.01	359.85	360.09	361.99
11	359.77	359.93	359.90	359.57	355.09	355.00	357.14	369.45	360.14	359.85	359.98	361.59
12	359.76	359.90	359.92	358.93	355.02	354.87	357.16	369.41	361.19	359.84	359.92	361.17
13	359.83	359.88	359.99	358.33	354.99	354.81	357.12	369.24	363.10	359.81	359.87	360.81
14	359.77	359.84	360.08	357.78	355.11	354.73	357.07	369.04	363.97	359.78	359.81	360.63
15	359.76	359.86	360.12	357.22	355.60	354.72	356.96	368.88	364.16	359.77	359.82	360.32
16	359.75	359.83	360.13	356.72	356.18	354.77	356.85	368.65	364.10	359.81	359.82	360.11
17	359.73	359.79	360.08	356.25	356.61	354.82	356.92	369.05	363.80	359.80	359.80	359.96
18	359.72	359.73	359.93	355.81	356.65	354.86	356.88	369.25	363.40	359.80	359.78	359.86
19	359.72	359.77	360.37	355.44	356.56	354.92	356.85	369.13	362.98	359.94	359.78	359.86
20	359.75	359.80	360.85	355.12	357.01	354.98	356.91	368.95	362.52	359.94	359.78	359.81
21	359.73	359.84	361.28	354.98	358.82	355.11	357.00	368.70	362.08	359.93	359.79	359.84
22	359.73	359.81	361.37	354.84	359.21	355.17	357.09	368.54	361.66	359.94	359.80	359.92
23	359.74	359.78	361.18	354.81	359.39	355.24	357.20	368.16	361.27	359.98	359.80	359.93
24	359.75	359.79	360.98	354.80	359.80	355.20	357.34	367.67	360.91	359.96	359.80	359.93
25	359.83	359.85	360.77	354.84	359.53	355.28	357.52	367.24	360.60	359.92	359.80	359.96
26	359.89	359.82	360.47	354.93	359.02	355.30	359.41	366.73	360.78	359.90	359.79	359.96
27	359.91	359.84	360.18	354.97	358.54	355.18	361.75	366.32	360.76	359.87	359.79	359.96
28	359.93	359.84	359.90	355.03	358.10	355.24	362.42	365.85	360.52	359.85	359.79	359.96
29	359.99	359.85	359.55	355.11	---	355.37	362.64	365.32	360.31	359.87	359.85	359.92
30	359.94	359.93	359.16	355.11	---	355.39	362.66	364.73	360.13	359.81	360.11	359.90
31	359.90	---	359.81	355.13	---	355.37	---	364.19	---	360.03	360.32	---
MEAN	359.81	359.83	360.14	358.01	356.53	355.45	357.56	367.32	361.79	359.87	360.00	360.92
MAX	359.99	359.93	361.37	363.64	359.80	357.63	362.66	369.45	364.16	360.03	360.54	363.44
MIN	359.72	359.73	359.16	354.80	354.99	354.72	355.47	363.08	360.01	359.76	359.78	359.81

07039000 WAPPAPELLO LAKE AT WAPPAPELLO, MO—Continued



RESERVOIR STORAGE (ACRE FEET), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61,300	62,000	61,800	81,300	31,600	45,900	33,300	90,700	95,700	63,100	63,100	66,000
2	61,500	61,600	61,700	94,900	31,600	43,400	33,800	96,200	90,100	62,400	64,000	68,600
3	61,800	61,100	61,800	96,100	31,600	41,200	34,700	104,000	86,000	61,800	65,400	87,000
4	62,000	61,300	62,000	93,500	31,900	39,900	35,200	107,000	81,000	61,400	66,800	92,900
5	61,600	61,700	62,200	89,400	31,800	38,300	36,100	118,000	76,800	61,000	67,400	94,200
6	61,600	61,700	61,500	85,100	31,900	36,400	36,500	127,000	72,600	61,600	67,400	93,200
7	61,100	61,200	60,900	80,100	32,200	34,800	38,100	134,000	69,500	61,700	67,100	91,000
8	61,000	61,000	61,000	75,100	31,700	33,400	39,900	148,000	66,600	61,700	65,800	87,600
9	60,900	61,300	61,300	70,000	31,500	32,400	41,700	155,000	64,400	61,700	64,500	84,100
10	61,100	62,000	61,600	64,400	31,400	31,500	42,400	157,000	62,900	61,700	63,600	80,400
11	61,100	62,300	62,000	59,600	31,300	30,900	42,700	159,000	64,000	61,700	62,700	76,800
12	61,000	62,000	62,200	54,800	31,000	30,400	42,800	159,000	73,100	61,600	62,200	72,900
13	61,500	61,900	62,700	50,600	30,900	30,200	42,600	157,000	90,900	61,400	61,800	69,800
14	61,100	61,600	63,500	46,900	31,400	29,900	42,300	154,000	99,300	61,100	61,400	68,200
15	61,000	61,700	63,800	43,200	33,900	29,800	41,600	153,000	101,000	61,100	61,500	65,600
16	60,900	61,500	63,900	40,100	37,000	30,000	40,900	150,000	101,000	61,400	61,500	63,700
17	60,800	61,200	63,500	37,400	39,500	30,200	41,300	155,000	97,700	61,300	61,300	62,500
18	60,700	60,800	62,300	34,900	39,700	30,400	41,100	157,000	93,800	61,300	61,100	61,700
19	60,700	61,100	66,000	33,100	39,200	30,600	40,900	156,000	89,700	62,400	61,100	61,700
20	60,900	61,300	70,100	31,500	41,900	30,800	41,300	153,000	85,400	62,400	61,100	61,400
21	60,800	61,600	73,900	30,800	54,000	31,400	41,800	150,000	81,300	62,300	61,200	61,600
22	60,800	61,400	74,800	30,300	56,900	31,800	42,400	149,000	77,400	62,400	61,300	62,200
23	60,800	61,100	73,000	30,200	58,200	32,100	43,100	144,000	73,900	62,700	61,300	62,300
24	60,900	61,200	71,200	30,100	61,300	31,900	44,000	139,000	70,600	62,500	61,300	62,300
25	61,500	61,700	69,400	30,300	59,300	32,300	45,200	134,000	68,000	62,200	61,300	62,500
26	62,000	61,500	66,800	30,600	55,400	32,400	58,400	128,000	69,500	62,000	61,200	62,500
27	62,100	61,600	64,300	30,800	52,100	31,800	78,200	124,000	69,300	61,800	61,200	62,500
28	62,300	61,600	62,000	31,000	49,000	32,100	84,400	119,000	67,300	61,700	61,200	62,500
29	62,700	61,700	59,400	31,400	---	32,700	86,500	113,000	65,500	61,800	61,700	62,200
30	62,400	62,300	56,500	31,400	---	32,800	86,700	107,000	63,900	61,400	63,700	62,000
31	62,000	---	61,400	31,600	---	32,700	---	102,000	---	63,100	65,600	---
MEAN	61,400	61,500	64,100	51,600	40,000	33,400	46,700	135,000	78,900	61,900	63,000	71,100
MAX	62,700	62,300	74,800	96,100	61,300	45,900	86,700	159,000	101,000	63,100	67,400	94,200
MIN	60,700	60,800	56,500	30,100	30,900	29,800	33,300	90,700	62,900	61,000	61,100	61,400

07039500 ST. FRANCIS RIVER AT WAPPAPELLO, MO

LOCATION.--Lat 36°55'41", long 90°15'55", in NW ¼ SE ¼ sec.2, T.26 N., R.7 E., Butler County, Hydrologic Unit 08020202, on right bank at downstream side of highway bridge, 0.5 mi southeast of Wappapello, and 1.25 mi downstream from Wappapello Dam.

DRAINAGE AREA.--1,311 mi².

PERIOD OF RECORD.--October 1940 to Sept. 30, 1997, Oct. 1, 1998 to current year. Since January 1939 in reports of the Mississippi River Commission. Gage-height records collected in this vicinity since April 1920 in reports of the U.S. Army Corps of Engineers.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 315.15 ft (revised) above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1984, at datum 10.00 ft higher at present site. Prior to Oct. 14, 1940, nonrecording gage at same site.

REMARKS.--Records good. Flow completely regulated by Wappapello Lake (07039000), 1.25 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1920, 30.7 ft, former datum, May 15, 1933, discharge 82,500 ft³/s, determined by the U.S. Army Corps of Engineers. Maximum discharge, as determined by the U.S. Army Corps of Engineers, 85,000 ft³/s, Aug. 1915, stage unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	638	216	2,950	433	3,680	763	2,290	3,660	956	510	323
2	65	656	273	3,380	433	3,320	590	2,340	3,460	867	e585	566
3	88	539	359	3,870	433	3,040	578	2,380	3,270	802	e655	527
4	286	362	368	4,210	432	2,870	551	2,300	2,980	680	730	516
5	388	386	472	4,340	431	2,760	472	1,970	2,700	496	726	1,080
6	328	503	592	4,290	432	2,620	548	1,880	2,420	303	716	1,570
7	227	428	407	4,230	480	2,380	740	2,060	2,140	290	808	1,920
8	193	244	201	4,160	560	2,070	782	2,220	1,740	287	953	2,240
9	188	147	185	4,080	559	1,790	1,040	2,550	1,370	286	894	2,230
10	189	269	185	3,980	557	1,490	1,200	2,870	1,030	286	756	2,170
11	188	480	185	3,820	555	1,320	1,220	3,280	847	285	624	2,130
12	188	488	185	3,570	554	1,190	1,220	3,410	848	285	462	2,050
13	188	488	189	3,300	553	1,110	1,210	3,290	1,010	283	357	1,780
14	188	487	252	3,020	691	1,020	1,210	3,220	1,420	243	294	1,560
15	188	489	400	2,760	1,060	821	1,140	3,390	2,090	210	217	1,380
16	188	488	582	2,500	1,420	695	947	3,160	2,500	197	211	1,130
17	188	488	837	2,220	1,750	685	865	2,630	2,980	185	209	860
18	189	382	1,130	1,980	2,210	734	857	2,590	3,110	173	181	577
19	191	226	1,450	1,690	2,810	848	855	3,310	3,090	222	124	326
20	190	216	1,460	1,370	3,850	1,120	763	3,450	2,960	290	118	202
21	190	276	1,660	1,070	4,780	1,540	562	3,850	2,720	293	115	154
22	161	365	2,250	854	5,180	1,730	448	4,340	2,460	230	112	151
23	114	346	2,510	635	5,370	1,750	321	4,440	2,200	215	110	147
24	105	231	2,540	421	5,550	1,580	312	4,330	1,920	285	107	145
25	106	217	2,520	320	5,460	1,220	314	4,150	1,670	291	104	143
26	104	216	2,500	309	5,080	1,510	517	4,280	1,560	290	102	177
27	104	216	2,480	308	4,480	1,480	1,120	4,280	1,530	289	100	223
28	175	216	2,450	307	4,020	1,260	1,640	4,230	1,440	288	98	222
29	397	217	2,430	359	---	1,240	1,840	4,170	1,310	296	98	220
30	613	216	2,410	432	---	1,240	2,090	4,060	1,150	339	205	217
31	625	---	2,820	434	---	1,140	---	3,870	---	413	328	---
MEAN	213	364	1,177	2,296	2,147	1,653	890	3,245	2,120	350	374	898
MAX	625	656	2,820	4,340	5,550	3,680	2,090	4,440	3,660	956	953	2,240
MIN	65	147	185	307	431	685	312	1,880	847	173	98	143
IN.	0.19	0.31	1.04	2.02	1.71	1.45	0.76	2.85	1.80	0.31	0.33	0.76

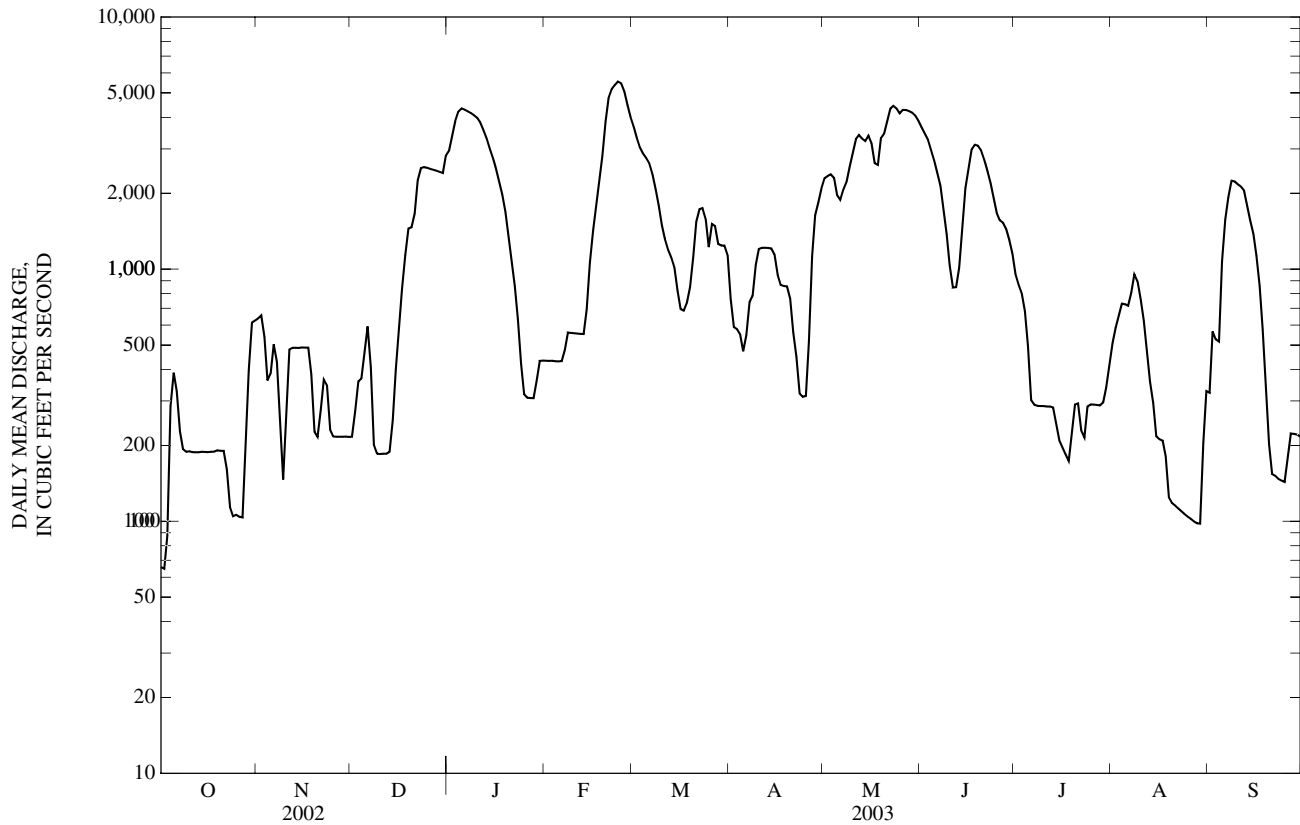
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	412	929	2,008	2,351	2,360	2,731	2,844	2,575	1,517	709	381	391
MAX	3,239	4,959	8,897	8,867	7,796	7,072	11,920	9,243	6,442	4,866	3,385	2,239
(WY)	(1950)	(1952)	(1983)	(1950)	(1949)	(1979)	(1945)	(1983)	(2002)	(1945)	(1945)	(1982)
MIN	33.9	43.8	167	188	286	474	63.5	62.3	6.00	87.1	40.0	34.0
(WY)	(1949)	(1954)	(1990)	(1981)	(1963)	(1981)	(1981)	(1987)	(1978)	(1980)	(1965)	(1955)

07039500 ST. FRANCIS RIVER AT WAPPAPELLO, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD ^a	
ANNUAL MEAN	2,627		1,306		1,597	
HIGHEST ANNUAL MEAN					3,534	
LOWEST ANNUAL MEAN					579	
HIGHEST DAILY MEAN	9,910	May 19	5,550	Feb 24	21,800	Apr 16, 1945
LOWEST DAILY MEAN	44	Mar 7	65	Oct 2	0.00	Several Years
ANNUAL SEVEN-DAY MINIMUM	107	Aug 7	103	Aug 23	0.00	At Times
MAXIMUM PEAK FLOW	---		5,570	Feb 24	22,300	Apr 16, 1945
MAXIMUM PEAK STAGE	---		23.49	Feb 24	31.44	May 17, 2002
INSTANTANEOUS LOW FLOW	---		60	Oct 3	0.00	Several Years
ANNUAL RUNOFF (INCHES)	27.20		13.53		16.55	
10 PERCENT EXCEEDS	7,700		3,380		4,100	
50 PERCENT EXCEEDS	1,500		716		687	
90 PERCENT EXCEEDS	148		188		45	

e Estimated

^a Post-regulation period water years 1942-1977 and 1999-2003

ST. FRANCIS RIVER BASIN

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°40'26", long 89°28'30", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.6, T.23 N., R.15 E., Madrid County, Hydrologic Unit 08020204, located approximately 2.5 mi east of Interstate 55 on State Highway P, and 4.0 mi south of Henderson Mound.

DRAINAGE AREA.--313 mi².

PERIOD OF RECORD.--October 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 16...	1310	Environmental	161	8.5	85	7.6	274	14.7	--	--	--	--
NOV 05...	1400	Environmental	229	12.9	121	7.4	248	11.4	86	26.4	4.92	1.23
DEC 03...	1355	Environmental	180	12.0	99	7.7	260	7.1	--	--	--	--
DEC 03...	1356	Replicate	--	12.0	99	7.7	262	7.1	--	--	--	--
JAN 23...	0900	Environmental	359	14.2	100	7.7	190	1.6	130	38.4	7.15	1.39
FEB 26...	1320	Environmental	615	9.8	78	7.4	214	5.3	--	--	--	--
MAR 12...	0845	Environmental	474	8.2	76	7.4	263	11.6	--	--	--	--
APR 15...	1545	Environmental	417	7.8	90	7.7	257	21.5	--	--	--	--
MAY 14...	0945	Environmental	461	6.1	68	7.0	213	19.9	99	29.8	5.87	2.41
JUN 05...	0840	Environmental	417	7.0	73	7.1	249	17.4	--	--	--	--
JUL 22...	1300	Environmental	226	8.8	111	7.5	275	26.3	120	38.0	7.05	1.48
AUG 18...	1400	Environmental	166	8.0	107	7.3	276	29.2	--	--	--	--
AUG 18...	1401	Replicate	--	8.1	109	7.3	275	29.2	--	--	--	--
SEP 04...	1030	Environmental	1,520	4.6	54	6.6	106	23.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfixed incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfixed incrm. titr., field, mg/L (00450)	Carbonate, wat unfixed incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 16...	--	104	105	128	<1	--	--	--	--	<10	0.15	<0.04	0.51
NOV 05...	4.32	96	96	117	<1	8.20	<0.20	16.8	156	10	0.22	<0.04	0.43
DEC 03...	--	104	104	127	<1	--	--	--	--	<10	E.09	<0.04	0.30
DEC 03...	--	--	--	--	--	--	--	--	--	<10	0.11	<0.04	0.28
JAN 23...	5.59	99	101	123	<1	7.21	<0.17	17.6	163	<10	0.11	<0.04	0.13
FEB 26...	--	75	74	90	<1	--	--	--	--	11	0.35	0.04	0.45
MAR 12...	--	98	98	119	<1	--	--	--	--	29	0.26	<0.04	0.08
APR 15...	--	96	96	117	<1	--	--	--	--	46	0.37	<0.04	0.22
MAY 14...	4.54	77	78	95	<1	7.04	<0.17	14.0	146	25	0.50	<0.04	0.32
JUN 05...	--	98	98	120	<1	--	--	--	--	44	0.45	<0.04	0.34
JUL 22...	6.34	103	105	128	<1	9.89	<0.20	15.4	173	28	0.28	<0.04	0.30
AUG 18...	--	104	103	126	<1	--	--	--	--	19	0.19	<0.04	0.29
AUG 18...	--	--	--	--	--	--	--	--	--	12	0.16	<0.04	E.36nd
SEP 04...	--	35	36	44	<1	--	--	--	--	55d	0.88	E.03n	0.16

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible][illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07042450 ST. JOHNS DITCH NEAR HENDERSON MOUND, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
OCT 16...	--	--	--
NOV 05...	<0.005	<0.002	<0.009
DEC 03...	--	--	--
03...	--	--	--
JAN 23...	--	--	--
FEB 26...	--	--	--
MAR 12...	<0.005	<0.002	<0.009
APR 15...	<0.005	<0.002	<0.009
MAY 14...	<0.005	<0.002	<0.009
JUN 05...	<0.005	<0.002	<0.009
JUL 22...	--r	--r	--r
AUG 18...	--	--	--
18...	--	--	--
SEP 04...	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

07043500 LITTLE RIVER DITCH 1 NEAR MOREHOUSE, MO

LOCATION.--Lat 36°50'03", long 89°43'48", in SW ¼ SE ¼ sec.2, T.25 N., R.12 E., Stoddard County, Hydrologic Unit 08020204, on downstream side of second pier right of left abutment of bridge on State Highway 114, 1.5 mi downstream from Little River Ditch 39, and 2.0 mi west of Morehouse.

DRAINAGE AREA.--450 mi².

PERIOD OF RECORD.--October 1945 to September 1991, October 1995 to current year. Prior to January 1946 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 280.76 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 17, 1949 and from June 11, 1951, to Feb. 22, 1962, nonrecording gage at same datum. Nov. 17, 1949, to June 10, 1951, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1945 reached a stage of 19.85 ft, from floodmark, discharge, 5,830 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

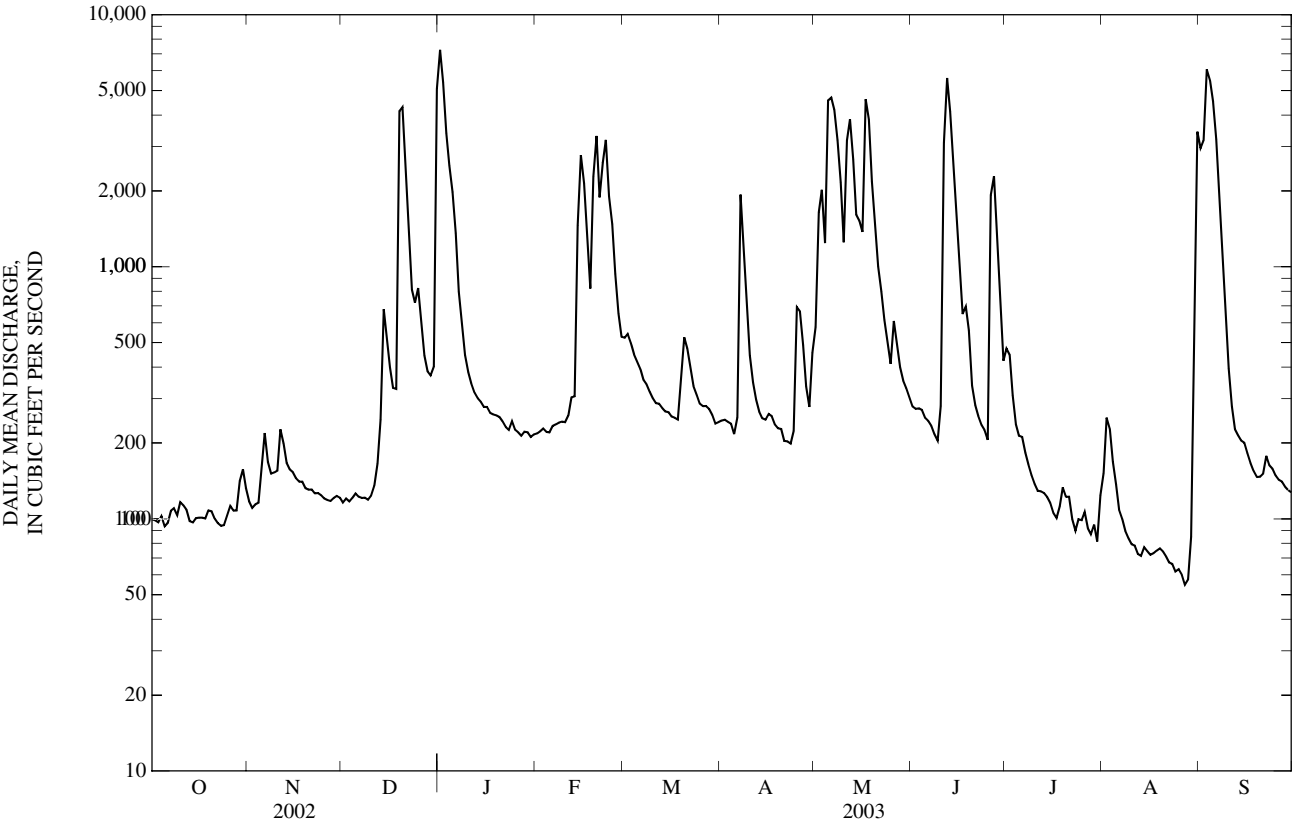
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	117	116	7,260	218	523	246	576	279	474	152	2,950
2	99	111	120	5,400	223	541	247	1,640	273	448	252	3,170
3	97	114	117	3,390	228	497	243	2,020	274	309	228	6,070
4	103	116	121	2,520	221	448	239	1,240	270	237	169	5,500
5	93	159	126	1,980	220	421	217	4,570	252	214	137	4,530
6	96	219	122	1,360	234	393	252	4,690	245	211	109	3,200
7	108	168	121	796	237	356	1,930	4,190	234	183	100	1,930
8	110	151	121	579	241	342	1,240	3,180	217	165	90	1,150
9	104	153	119	446	243	320	712	2,160	204	149	84	630
10	117	155	124	382	242	301	445	1,250	280	138	79	395
11	113	227	135	345	257	288	348	3,170	3,100	129	78	279
12	109	199	166	317	303	286	298	3,850	5,610	129	73	227
13	98	167	247	301	306	275	266	2,670	4,130	127	71	214
14	97	157	679	292	1,460	267	251	1,610	2,700	122	77	205
15	101	153	528	278	2,780	265	247	1,520	1,650	116	75	201
16	101	145	398	278	2,140	255	261	1,380	973	105	72	182
17	101	140	331	263	1,260	252	256	4,620	650	101	73	166
18	100	140	327	260	820	248	237	3,830	695	112	75	155
19	108	132	4,140	257	2,280	346	229	2,180	559	133	76	147
20	107	131	4,290	254	3,310	525	227	1,450	337	122	74	147
21	100	131	2,150	243	1,880	475	204	1,000	283	122	71	151
22	96	126	1,330	231	2,590	400	203	798	256	100	67	178
23	94	127	812	225	3,190	336	199	615	236	90	66	163
24	95	124	721	244	1,900	311	223	499	225	100	62	158
25	103	120	824	226	1,480	287	692	412	206	99	63	149
26	112	119	611	220	936	280	666	610	1,920	107	60	143
27	108	118	445	214	653	281	490	497	2,290	92	55	141
28	108	121	385	222	528	273	335	400	1,460	87	57	134
29	141	123	371	221	---	258	278	354	874	95	85	130
30	157	121	401	211	---	239	456	330	424	81	1,100	127
31	132	---	5,080	216	---	242	---	304	---	124	3,430	---
MEAN	107	143	825	949	1,085	340	405	1,859	1,037	156	234	1,097
MAX	157	227	5,080	7,260	3,310	541	1,930	4,690	5,610	474	3,430	6,070
MIN	93	111	116	211	218	239	199	304	204	81	55	127
IN.	0.27	0.35	2.11	2.43	2.51	0.87	1.00	4.76	2.57	0.40	0.60	2.72

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	168	426	671	794	884	941	864	798	407	266	189	185
MAX	944	2,615	2,875	4,286	3,646	2,800	2,851	3,821	1,564	817	658	1,097
(WY)	(1985)	(1958)	(1983)	(1950)	(1989)	(1979)	(1979)	(2002)	(1989)	(1957)	(1985)	(2003)
MIN	30.6	45.4	73.5	72.3	115	106	146	139	88.7	70.9	47.6	27.4
(WY)	(1954)	(2000)	(1954)	(1981)	(1963)	(1981)	(1971)	(2001)	(1988)	(1954)	(1999)	(1999)

07043500 LITTLE RIVER DITCH 1 NEAR MOREHOUSE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	979		683		550	
HIGHEST ANNUAL MEAN					1,261	
LOWEST ANNUAL MEAN					134	
HIGHEST DAILY MEAN	9,550	May 18	7,260	Jan 1	11,700	Feb 15, 1989
LOWEST DAILY MEAN	51	Aug 12	55	Aug 27	21	Sep 18, 1954
ANNUAL SEVEN-DAY MINIMUM	57	Aug 7	61	Aug 22	24	Sep 13, 1954
MAXIMUM PEAK FLOW	---		7,660	Jan 1	12,000	Feb 15, 1989
MAXIMUM PEAK STAGE	---		16.00	Jan 1	19.30	Feb 15, 1989
INSTANTANEOUS LOW FLOW	---		51	Aug 28	20	Sep 8, 1999
ANNUAL RUNOFF (INCHES)	29.53		20.61		16.60	
10 PERCENT EXCEEDS	2,630		2,140		1,330	
50 PERCENT EXCEEDS	286		242		204	
90 PERCENT EXCEEDS	96		99		78	



07046250 LITTLE RIVER DITCHES NEAR RIVES, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°05'25", long 90°04'47", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.28, T.17 N., R.9 E., Dunklin County, Hydrologic Unit 08020204. Located at the Little River Ditches bridge chain on State Highway 164.

PERIOD OF RECORD.--November 1969 to June 1970, August 1972 to September 1973, July 1977 to June 1989, November 1992 to current year.

REMARKS.--Analyses represent a composite of water from five ditches. Bacteria is usually collected from Ditch 66. During high flow, samples are collected from the three western-most ditches. Published as Little River Ditches near Kennett (07046001) for periods of record from November 1969 to September 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 16...	0900	Environmental	331	6.9	69	8.0	333	14.8	--	--	--	--
NOV 05...	0915	Environmental	418	11.4	103	8.2	382	10.1	170	44.9	13.2	2.52
DEC 03...	1110	Environmental	566	11.9	95	8.1	364	5.6	--	--	--	--
JAN 22...	0830	Environmental	1,190	13.4	100	8.3	356	3.3	170	48.7	12.9	2.38
JAN 22...	0831	Replicate	--	--	--	--	--	--	180	50.0	13.3	2.26
FEB 26...	0840	Environmental	6,510	12.4	91	7.3	121	2.2	--	--	--	--
MAR 11...	0845	Environmental	989	10.3	87	8.0	369	7.8	--	--	--	--
APR 15...	0830	Environmental	963	6.9	77	7.9	354	20.3	--	--	--	--
MAY 13...	1200	Environmental	6,320	5.4	62	6.8	135	22.1	66	18.7	4.75	4.05
JUN 04...	0905	Environmental	1,080	7.5	81	7.7	396	18.4	--	--	--	--
JUL 23...	0945	Environmental	604	8.0	102	7.9	368	28.0	150	41.5	10.4	2.82
AUG 19...	1100	Environmental	687	6.8	94	7.5	357	31.9	--	--	--	--
SEP 03...	1515	Environmental	10,700	4.0	49	6.5	99	25.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd titr., field, mg/L (00450)	Carbonate, wat unfltrd titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 16...	--	138	139	170	<1	--	--	--	--	17	0.39	<0.04	0.09
NOV 05...	10.6	148	149	181	<1	14.2	<0.20	23.0	225	12	0.19	<0.04	<0.06
DEC 03...	--	165	166	203	<1	--	--	--	--	<10	0.11	<0.04	<0.06
JAN 22...	10.3	152	152	185	<1	14.3	<0.17	21.9	223	<10	0.19	E.02	0.08
JAN 22...	10.1	--	--	--	--	13.7	<0.17	22.2	230	<10	0.18	E.02	0.08
FEB 26...	--	52	50	62	<1	--	--	--	--	90	1.2	0.08	0.38
MAR 11...	--	148	148	181	<1	--	--	--	--	16	0.28	<0.04	<0.06
APR 15...	--	150	152	186	<1	--	--	--	--	34	0.37	<0.04	0.18
MAY 13...	3.49	57	54	66	<1	5.83	<0.17	9.5	108	258	1.7	<0.04	0.86
JUN 04...	--	159	159	194	<1	--	--	--	--	54	0.52	<0.04	0.06
JUL 23...	11.3	145	147	179	<1	14.7	0.20	19.8	217	47	0.57	<0.04	<0.06
AUG 19...	--	145	144	175	<1	--	--	--	--	41	0.45	<0.04	<0.06
SEP 03...	--	32	32	39	<1	--	--	--	--	120d	1.2	<0.04	0.28

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unftrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7µ MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unftrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unftrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
OCT 16...	E.005	0.11	0.11	0.19	20k	40k	48	--	--	--	--	--	--
NOV 05...	<0.008	0.05	0.05	0.11	13k	41k	24k	<2	190	1.9	<0.04	<0.2	<6
DEC 03...	<0.008	0.07	0.07	0.10	<2b	4k	11k	--	--	--	--	--	--
JAN 22...	<0.008	0.04	0.04	0.08	3k	2k	9k	<2	185	1.4	<0.04	E.1	<6
JAN 22...	<0.008	0.04	0.04	0.12	2k	3k	11k	<2	205	1.4	<0.04	<0.2	<6
FEB 26...	E.007	0.07	0.11	0.46	84	360	780	--	--	--	--	--	--
MAR 11...	<0.008	0.03	0.04	0.11	3k	<1b	6k	--	--	--	--	--	--
APR 15...	0.010	0.07	0.09	0.14	40	44	19k	--	--	--	--	--	--
MAY 13...	0.063	0.09	0.14	0.64	--1	440	1,120	4	5,600	2.1	<0.04	<0.2	<6
JUN 04...	E.004	0.05	0.05	0.19	76	104k	86	--	--	--	--	--	--
JUL 23...	<0.008	0.07	0.13	0.21	17k	22	44	3	575	3.5	<0.04	<0.2	<7
AUG 19...	<0.008	E.13nd	0.13	0.22	54	34k	56	--	--	--	--	--	--
SEP 03...	0.009	E.14nd	0.18	0.52	600k	1,200	4,200	--	--	--	--	--	--

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07046250 LITTLE RIVER DITCHES NEAR RIVES, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
OCT 16...	--	--	--
NOV 05...	<0.005	<0.002	<0.009
DEC 03...	--	--	--
JAN 22...	--	--	--
22...	--	--	--
FEB 26...	--	--	--
MAR 11...	<0.005	<0.002	<0.009
APR 15...	<0.005	<0.002	<0.009
MAY 13...	<0.005	<0.002	<0.009
JUN 04...	<0.005	<0.002	<0.009
JUL 23...	--r	--r	--r
AUG 19...	--	--	--
SEP 03...	--	--	--

Remark codes used in this table:

< -- Less than
 E -- Estimated value
 M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below
 d -- Diluted sample: method hi range exceeded
 k -- Counts outside acceptable range
 n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

l -- Analysis discarded: lab QC failure
 r -- Sample ruined in preparation

WHITE RIVER BASIN

07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°35'30", long 93°50'00", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.22 N., R.27 W., Barry County, Hydrologic Unit 11010001, at outlet of spring in Roaring River State Park.

PERIOD OF RECORD.--November 1993 to current year.

REMARKS.--Previously sampled downstream from spring and published as Roaring River at Roaring River State Park (07050152) November 1991 to October 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 18...	1220	Environmental	30	7.5	76	7.2	346	14.5	160	57.4	2.95	1.06
JAN 27...	1300	Environmental	15	7.6	77	6.7	359	14.5	--	--	--	--
MAR 17...	1630	Environmental	34	8.4	85	7.4	338	13.4	--	--	--	--
MAY 19...	1235	Environmental	58	8.1	81	7.5	351	14.1	170	64.5	2.98	1.38
JUL 29...	1035	Environmental	13	7.1	72	6.8	356	14.3	--	--	--	--
SEP 15...	1230	Environmental	13	7.1	72	6.9	343	14.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 18...	3.45	151	151	184	<1	6.37	<0.2	2.9	197	<10	E.07	<0.04	2.94
JAN 27...	--	155	157	192	<1	--	--	--	--	<10	E.09	<0.04	3.09
MAR 17...	--	137	137	167	<1	--	--	--	--	<10	0.11	<0.04	3.40
MAY 19...	3.91	151	151	184	<1	7.42	<0.2	4.3	211	<10	<0.10	<0.04	2.87
JUL 29...	--	158	157	192	<1	--	--	--	--	<10	<0.10	<0.04	2.94
SEP 15...	--	157	159	194	<1	--	--	--	--	<10	<0.10	<0.04	2.85

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic, water, fltrd, μ g/L (01000)	Cadmium, water, fltrd, μ g/L (01025)	Cadmium, water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)
NOV 18...	<0.008	0.02	E.04	E.03	17k	18k	24	<2	12	E.2	0.04	<0.2	<6
JAN 27...	<0.008	0.02	E.02	<0.04	6k	46	48	--	--	--	--	--	--
MAR 17...	<0.008	0.02	E.02	E.04	13k	12k	12k	--	--	--	--	--	--
MAY 19...	<0.008	0.02	E.03	E.04	5k	20k	80	<2	17	E.2	0.05	<0.2	<6
JUL 29...	E.004	E.02	E.02	E.03	4k	105	100	--	--	--	--	--	--
SEP 15...	<0.008	0.02	<0.04	<0.04	30	31	20	--	--	--	--	--	--

07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 18...	<10	<0.08	<1	<2.0	<0.02	E.4	4	3
JAN 27...	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--
MAY 19...	<10	<0.08	<1	<2.0	<0.02	E.3	4	3
JUL 29...	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'41", long 93°11'53", in NW ¼ NE ¼ NW ¼ sec. 35, T.29 N., R.21 W., Greene County, Hydrologic Unit 11010002, 1.4 mi east of Highway 65 and 0.13 mi south of Highway D (Sunshine).

DRAINAGE AREA.--21.0 mi².

PERIOD OF RECORD.--July 21, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.7	3.9	16	e3.5	24	20	30	14	16	23	13
2	1.9	5.7	3.9	10	3.6	31	19	30	23	12	86	17
3	2.1	5.6	3.9	6.4	3.6	35	18	25	21	11	40	12
4	2.0	5.3	4.5	5.6	3.4	33	16	23	18	11	22	10
5	1.6	5.7	4.2	5.8	3.3	30	15	25	16	9.9	16	8.5
6	1.8	6.0	4.0	5.6	3.4	27	23	26	18	9.5	12	7.4
7	1.7	6.0	3.9	5.4	3.6	24	25	36	18	8.5	10	6.6
8	1.8	6.0	4.1	5.4	3.5	21	22	29	16	8.1	8.6	6.0
9	1.8	5.5	4.0	5.5	3.6	19	19	24	14	7.8	7.7	5.5
10	1.8	5.3	3.9	5.3	3.9	17	17	23	15	9.3	7.1	4.9
11	1.7	4.8	3.8	5.2	4.2	16	16	25	36	8.3	6.5	4.9
12	2.2	4.6	3.8	4.9	4.3	14	15	21	60	20	6.2	5.5
13	2.2	4.6	4.2	4.7	4.3	16	14	26	136	14	5.7	9.9
14	2.1	4.7	3.8	4.8	22	15	13	40	90	12	5.6	8.8
15	2.1	6.9	3.7	4.8	33	14	12	40	69	10	5.3	7.3
16	2.0	6.2	3.8	4.8	28	13	12	44	55	8.5	5.1	6.0
17	2.3	5.4	3.7	4.4	24	13	11	52	45	7.8	5.0	5.2
18	2.3	4.9	3.4	4.3	21	12	11	49	38	7.1	4.9	4.9
19	2.5	4.5	3.8	4.6	42	14	11	43	33	6.7	4.6	4.5
20	2.5	4.2	3.8	4.6	50	17	11	37	29	6.0	4.5	4.2
21	2.0	4.1	3.9	4.5	41	21	10	32	25	5.6	4.3	4.4
22	2.0	4.1	3.8	4.3	37	23	9.8	28	22	5.4	4.3	5.4
23	2.0	4.3	4.1	4.2	35	22	9.9	25	19	5.3	4.3	4.5
24	1.9	4.1	4.4	3.9	32	21	15	23	17	5.0	4.3	4.2
25	6.3	3.9	4.6	3.8	29	20	22	22	15	4.6	4.3	3.8
26	4.5	3.8	4.8	e3.9	26	18	19	21	16	4.5	4.2	3.4
27	3.5	3.9	4.8	e3.8	25	17	16	19	15	4.3	4.1	3.4
28	8.3	3.9	4.9	e3.8	23	22	14	18	13	4.3	5.9	3.4
29	23	3.8	4.6	e3.7	---	24	13	16	12	4.2	7.1	3.2
30	11	3.8	8.9	e3.6	---	23	13	16	14	4.1	19	3.2
31	8.1	---	21	3.6	---	22	---	15	---	21	14	---
MEAN	3.64	4.94	4.77	5.20	18.4	20.6	15.4	28.5	31.1	8.77	11.7	6.37
MAX	23	6.9	21	16	50	35	25	52	136	21	86	17
MIN	1.6	3.8	3.4	3.6	3.3	12	9.8	15	12	4.1	4.1	3.2
IN.	0.20	0.26	0.26	0.29	0.91	1.13	0.82	1.56	1.65	0.48	0.64	0.34

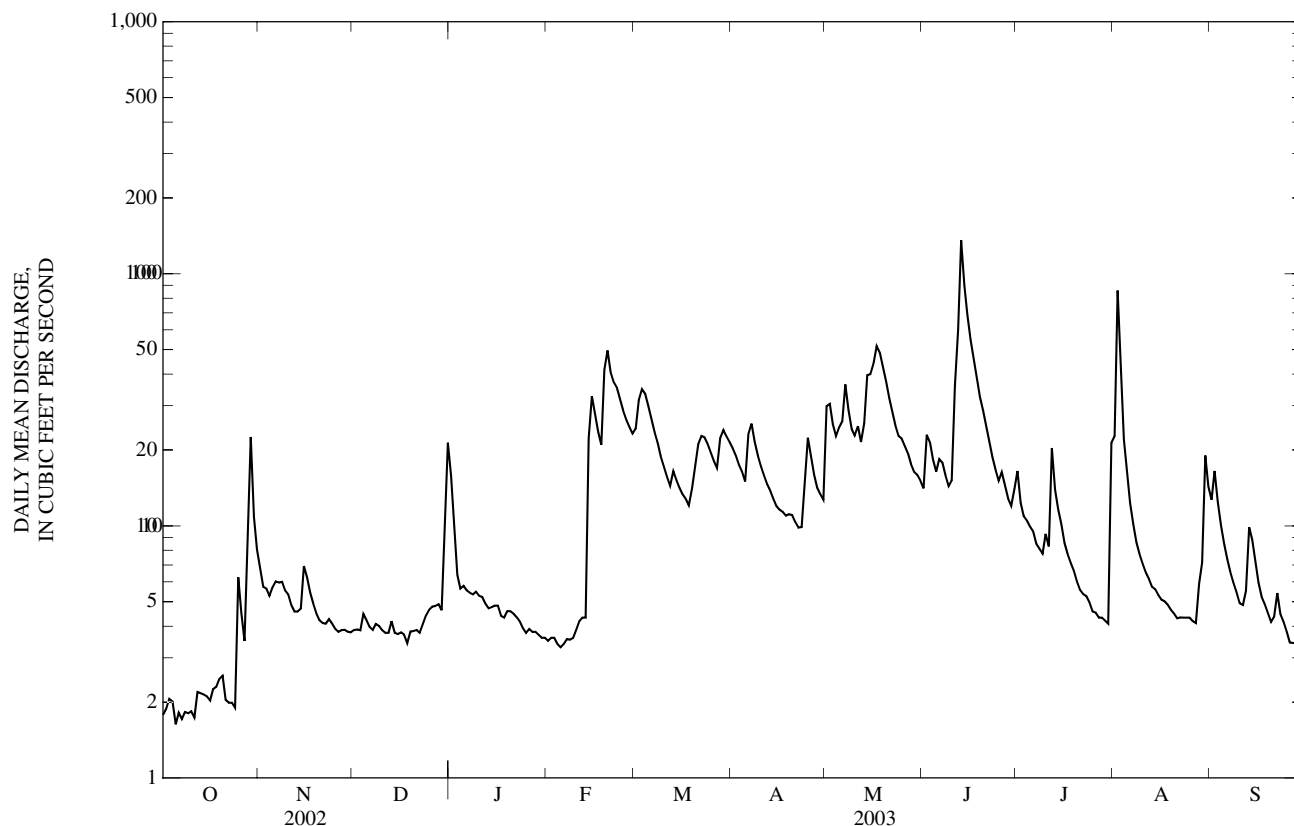
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	6.24	6.36	16.3	8.33	29.2	24.3	16.4	41.7	17.6	23.8	8.06	5.86
MAX	14.7	9.92	39.2	15.0	53.2	41.8	37.7	126	31.1	59.6	12.4	15.2
(WY)	(2002)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2003)	(2000)	(2001)	(2001)
MIN	2.70	3.77	3.73	4.39	9.62	11.3	5.20	5.63	10.6	8.77	3.10	1.98
(WY)	(2001)	(2000)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2003)	(1999)	(2002)

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL MEAN	25.1		13.2		17.2	
HIGHEST ANNUAL MEAN					29.4	
LOWEST ANNUAL MEAN					12.2	
HIGHEST DAILY MEAN	916	May 8	136	Jun 13	916	May 8, 2002
LOWEST DAILY MEAN	1.5	Sep 29,30	1.6	Oct 5	1.5	Oct 14, 2000
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 7	1.7	Oct 5	1.7	Sep 7, 2002
MAXIMUM PEAK FLOW	---		188	Jun 13	2,200	Jul 12, 2000
MAXIMUM PEAK STAGE	---		4.12	Jun 13	7.53	Jul 12, 2000
INSTANTANEOUS LOW FLOW	---		1.4	Oct 5	1.4	Sep 7,28-30,Oct 5, 2002
ANNUAL RUNOFF (INCHES)	16.26		8.55		11.10	
10 PERCENT EXCEEDS	50		28		34	
50 PERCENT EXCEEDS	8.1		7.3		8.0	
90 PERCENT EXCEEDS	2.1		3.6		2.9	

e Estimated



07050690 PEARSON CREEK NEAR SPRINGFIELD, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 22...	0810	Environmental	2.0	6.8	68	7.5	487	13.1	--	--	--	--
NOV 19...	1530	Environmental	4.6	9.7	94	8.0	501	12.2	240	86.4	5.87	1.96
DEC 10...	1420	Environmental	3.9	13.5	119	7.8	509	8.1	--	--	--	--
JAN 28...	1505	Environmental	e3.8	13.7	122	8.3	479	8.3	240	86.2	5.93	1.74
FEB 14...	1227	Environmental	32	10.6	100	7.9	632	10.2	250	93.3	3.77	1.71
20...	1305	Environmental	49	11.3	106	7.7	455	10.7	--	--	--	--
MAR 18...	1510	Environmental	12	13.4	141	8.2	459	14.9	--	--	--	--
APR 23...	1340	Environmental	9.7	10.3	110	7.7	475	16.1	--	--	--	--
MAY 06...	2110	Environmental	61	7.1	77	7.9	318	16.8	150	54.2	2.51	3.78
21...	0830	Environmental	33	8.4	85	7.7	489	14.0	230	85.6	4.08	1.73
JUN 26...	0830	Environmental	17	6.8	74	7.4	486	17.7	--	--	--	--
JUL 28...	1040	Environmental	4.3	8.2	96	7.5	474	21.0	210	75.3	5.69	1.99
AUG 20...	1130	Environmental	4.6	7.7	92	7.9	476	22.5	--	--	--	--
SEP 03...	1245	Environmental	12	7.8	89	7.8	452	19.5	230	85.5	4.07	2.15

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 22...	--	215	216	264	<1	--	--	--	--	<10	0.12	<0.04	1.57
NOV 19...	11.0	208	208	254	<1	21.8	<0.20	11.0	286	<10	0.15	<0.04	1.93
DEC 10...	--	202	203	247	<1	--	--	--	--	<10	0.14	<0.04	2.18
JAN 28...	14.1	185	184	224	<1	32.8	<0.20	11.6	271	<10	0.12	<0.04	2.41
FEB 14...	39.4	177	178	217	<1	84.3	<0.20	12.7	383	38	0.53	<0.04	2.37
20...	--	164	164	200	<1	--	--	--	--	<10	0.16	<0.04	3.51
MAR 18...	--	175	176	214	<1	--	--	--	--	<10	0.17	<0.04	2.59
APR 23...	--	188	190	231	<1	--	--	--	--	<10	0.31	<0.04	2.51
MAY 06...	7.94	122	120	146	<1	16.5	<0.17	7.8	200	196	1.7	0.10	1.74
21...	10.8	198	201	245	<1	23.1	<0.20	9.6	290	<10	E.10	<0.04	3.01
JUN 26...	--	190	189	231	<1	--	--	--	--	<10	0.13	<0.04	2.68
JUL 28...	11.6	199	200	244	<1	25.5	<0.17	9.4	281	<10	0.32	0.11	2.02
AUG 20...	--	212	214	262	<1	--	--	--	--	<10	0.24	<0.04	1.91
SEP 03...	10.2	207	209	255	<1	21.5	<0.20	9.9	285	<10	0.17	<0.04	2.37

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unftrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unftrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unftrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
OCT 22...	E.006	0.02	E.03	E.03	240	930k	495	--	--	--	--	--	--
NOV 19...	E.004	0.02	E.03	E.04	180	420	132	<2	25	E.2	<0.04	<0.2	<6
DEC 10...	E.006	E.02	E.03	E.03	110	50	143	--	--	--	--	--	--
JAN 28...	E.007	<0.02	<0.04	<0.04	1,200k	2,320k	38k	M	20	E.1	<0.04	<0.2	E3
FEB 14...	0.008	E.01	0.04	0.08	100k	100k	910k	M	296	0.3	<0.04	<0.2	<6
20...	E.006	0.02	E.02	E.03	<4b	144	206	--	--	--	--	--	--
MAR 18...	E.006	<0.02	E.02	E.04	6k	220	80	--	--	--	--	--	--
APR 23...	0.009	<0.02	<0.04	E.02	3k	98k	27	--	--	--	--	--	--
MAY 06...	0.018	0.16	0.18	0.43	71,000	56,000	67,000	4	1,440	0.7	0.04	0.3	E4
21...	<0.008	E.02	E.03	E.03	75	710k	115	E1	37	<0.3	E.03	E.1	<6
JUN 26...	E.007	E.01	E.02	<0.04	740	880	600	--	--	--	--	--	--
JUL 28...	E.005	<0.09	0.04	0.05	240	1,480k	427	8	64	0.3	<0.04	<0.2	<7
AUG 20...	0.010	0.02	E.03n	0.05	470	660k	490	--	--	--	--	--	--
SEP 03...	E.005n	0.03	E.03n	0.04	380	783k	380	5	49	0.3	<0.04	E.03n	0.7

Date	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lead, water, unftrd recover- able, µg/L (01051)	Mangan- ese, water, ftrd, µg/L (01056)	Mercury water, unftrd recover- able, µg/L (71900)	Selen- ium, water, ftrd, µg/L (01145)	Zinc, water, ftrd, µg/L (01090)	Zinc, water, unftrd recover- able, µg/L (01092)	2,6-Di- ethyl- aniline water ftrd 0.7µ GF µg/L (82660)	CIAT, water, ftrd, µg/L (04040)	Aceto- chlor, water, ftrd, µg/L (49260)	Ala- chlor, water, ftrd, µg/L (46342)	alpha- HCH, water, ftrd, µg/L (34253)
OCT 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	<10	E.04	<1	10.3	<0.02	E.4	M	E1	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 28...	<10	E.04	<1	6.9	<0.02	E.4	M	<2	--	--	--	--	--
FEB 14...	<10	E.05	2	20.6	<0.02	E.5	3	12	<0.006	E.005	<0.006	<0.004	<0.005
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 06...	12	0.10	17	26.9	0.02	E.3	4	47	--r	E.01	--r	--r	--r
21...	<10	<0.08	<1	6.8	<0.02	E.3	4	4	--	--	--	--	--
JUN 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 28...	13	E.07n	Mn	27.2	<0.02	E.4n	Mn	E2n	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	8	<0.08	M	13.9	<0.02	E.3n	Mn	4	--	--	--	--	--

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible][illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
OCT 22...	--	--	--
NOV 19...	--	--	--
DEC 10...	--	--	--
JAN 28...	--	--	--
FEB 14...	<0.005	<0.002	<0.009
20...	--	--	--
MAR 18...	--	--	--
APR 23...	--	--	--
MAY 06...	--r	--r	--r
21...	--	--	--
JUN 26...	--	--	--
JUL 28...	--	--	--
AUG 20...	--	--	--
SEP 03...	--	--	--

Remark codes used in this table:

e -- Estimated discharge
 < -- Less than
 E -- Estimated value
 M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below
 k -- Counts outside acceptable range
 n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

07050700 JAMES RIVER NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°09'00", long 93°12'12", in SW ¼ SE ¼ SW ¼ sec.2, T.28 N., R.21 W., Greene County, Hydrologic Unit 11010002, on right bank upstream of Kinser Bridge on county road, 1.1 mi downstream from Pearson Creek, and 2.5 mi southeast of Springfield.

DRAINAGE AREA.--246 mi².

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,143.27 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1955, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 10 ft³/s, which are poor. Flows are affected by the pumping of Blackman Water Treatment Plant, 1.0 mi upstream. Springfield City Utilities gage-height and U.S.G.S satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a stage of about 22 ft, from information by local resident, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

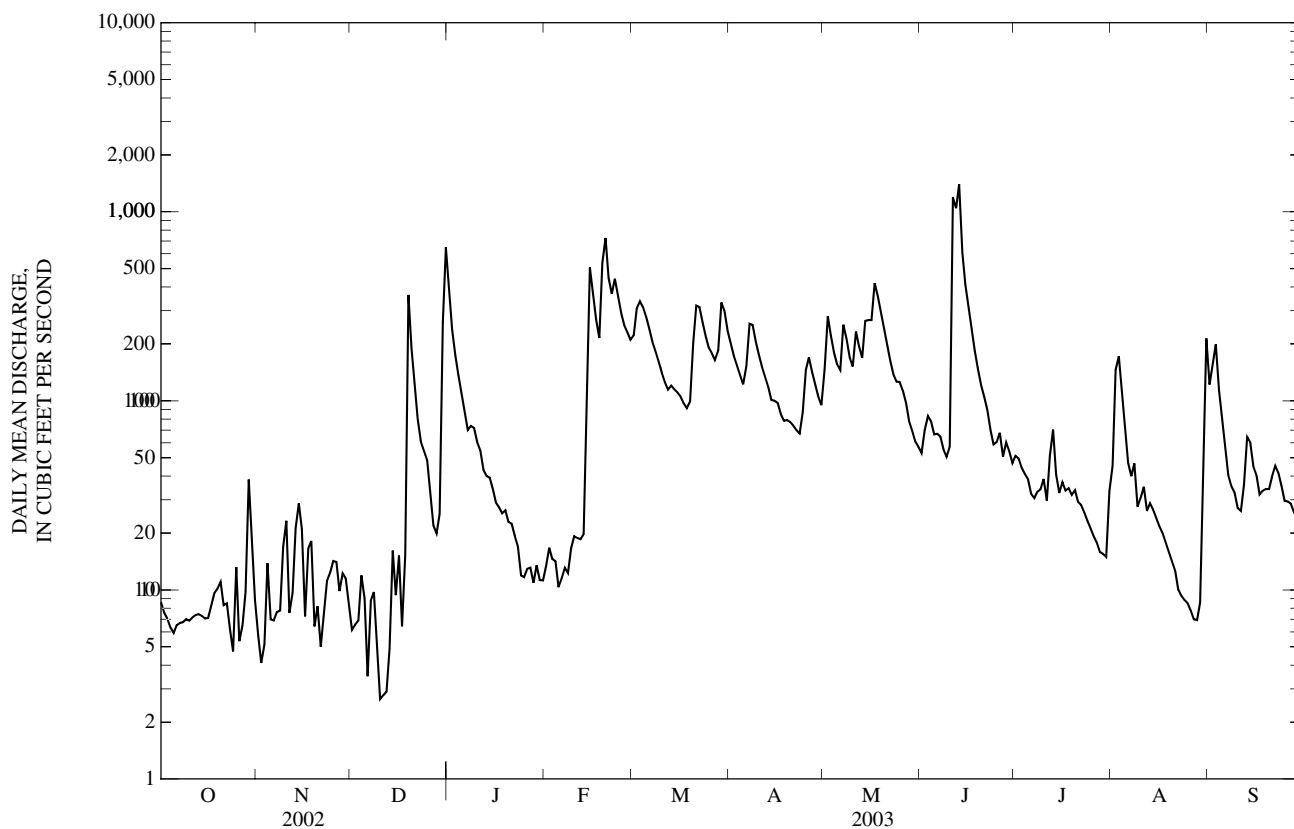
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	5.8	6.1	372	13	222	201	147	53	51	45	122
2	7.6	4.1	6.5	238	17	308	173	280	70	50	146	155
3	7.1	5.1	6.9	174	15	336	154	222	83	44	172	199
4	6.3	14	12	137	14	312	137	180	78	41	107	114
5	5.9	7.0	9.0	111	10	278	122	156	67	39	71	80
6	6.5	6.9	3.5	87	11	239	152	145	67	32	47	57
7	6.7	7.6	8.8	70	13	205	256	253	65	31	40	40
8	6.8	7.8	9.8	74	12	182	252	213	55	33	47	35
9	7.0	17	5.5	72	17	162	206	169	51	34	28	33
10	6.9	23	2.6	61	19	140	176	152	57	39	31	27
11	7.2	7.6	2.8	55	19	126	151	232	1,190	30	35	26
12	7.3	9.6	2.9	43	19	115	134	195	1,040	51	26	36
13	7.4	21	4.9	40	20	120	118	169	1,400	70	29	64
14	7.3	29	16	39	99	115	101	265	608	41	27	60
15	7.1	21	9.4	34	507	111	100	267	410	33	24	45
16	7.1	7.3	15	29	364	105	98	267	306	37	22	40
17	8.3	17	6.4	27	269	97	85	420	235	33	20	32
18	9.6	18	15	25	215	91	79	356	183	34	18	33
19	10	6.4	364	26	537	99	79	290	148	32	16	34
20	11	8.2	190	23	727	204	77	236	121	34	14	34
21	8.3	5.0	123	22	447	319	74	197	105	29	13	40
22	8.5	7.4	80	19	368	313	70	162	90	28	10	45
23	6.2	11	61	17	442	261	67	138	70	26	9.3	42
24	4.7	12	55	12	357	219	86	126	59	23	8.9	35
25	13	14	49	12	291	191	146	126	61	21	8.5	30
26	5.4	14	32	13	251	178	170	113	68	19	7.8	29
27	6.5	9.8	22	13	230	164	142	97	51	18	7.0	29
28	9.8	12	20	11	210	184	123	78	60	16	6.9	26
29	38	12	25	13	---	332	105	69	54	15	8.6	24
30	18	8.2	260	11	---	300	95	61	47	15	40	24
31	8.8	---	648	11	---	234	---	57	---	33	214	---
MEAN	9.00	11.6	66.8	61.0	197	202	131	188	232	33.3	41.9	53.0
MAX	38	29	648	372	727	336	256	420	1,400	70	214	199
MIN	4.7	4.1	2.6	11	10	91	67	57	47	15	6.9	24
IN.	0.04	0.05	0.31	0.29	0.83	0.95	0.59	0.88	1.05	0.16	0.20	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2003, BY WATER YEAR (WY)

MEAN	93.1	241	280	210	278	412	424	403	194	105	37.4	107
MAX	587	1,327	1,370	881	972	1,055	1,396	1,672	873	1,148	262	1,566
(WY)	(1971)	(1973)	(1983)	(1995)	(1985)	(1998)	(1994)	(1961)	(1985)	(1958)	(1958)	(1993)
MIN	2.74	9.39	8.26	5.56	8.35	16.4	16.3	27.6	28.1	12.2	3.22	1.05
(WY)	(1957)	(1964)	(1956)	(1981)	(1981)	(1981)	(1981)	(2000)	(1972)	(1962)	(1962)	(1956)

07050700 JAMES RIVER NEAR SPRINGFIELD, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1956 - 2003	
ANNUAL MEAN	238		101		232	
HIGHEST ANNUAL MEAN					465	
LOWEST ANNUAL MEAN					52.8	
HIGHEST DAILY MEAN	13,500	May 8	1,400	Jun 13	24,500	Sep 25, 1993
LOWEST DAILY MEAN	2.6	Dec 10	2.6	Dec 10	0.30	Sep 16, 1956
ANNUAL SEVEN-DAY MINIMUM	5.1	Dec 6	5.1	Dec 6	0.53	Sep 12, 1956
MAXIMUM PEAK FLOW	---		2,610	Jun 13	41,100	Sep 25, 1993
MAXIMUM PEAK STAGE	---		9.79	Jun 13	19.45	Sep 25, 1993
INSTANTANEOUS LOW FLOW	---		2.3	Dec 9,10	0.10	Sep 16, 1956
ANNUAL RUNOFF (INCHES)	13.13		5.60		12.79	
10 PERCENT EXCEEDS	426		258		499	
50 PERCENT EXCEEDS	49		41		73	
90 PERCENT EXCEEDS	7.4		7.3		12	



07052000 WILSON CREEK AT SPRINGFIELD, MO

LOCATION.--Lat 37°11'12", long 93°19'52", in SE ¼ NE ¼ SE ¼ sec. 28, T.29 N., R.22 W., Greene County, Hydrologic Unit 11010002, 1,600 ft downstream from confluence of Jordan and Fassnight Creeks, at bridge on Scenic Drive in Springfield.

DRAINAGE AREA.--17.8 mi².

PERIOD OF RECORD.--May 1932 to November 1939, June 28, 1973 to Sept. 22, 1977, June 4, 1998 to present.

GAGE.--Water-stage recorder. Datum of gage is 1200.86 ft above National Geodetic Vertical Datum of 1929. May 1932 to January 1939, recorder 0.5 mi downstream and at datum 4.7 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S.G.S. satellite telemeter at station.

REVISIONS.--The maximum instantaneous discharge for the 1999 water year has been revised to 3,560 ft³/s, May 4, 1999. The maximum instantaneous discharge for 2000 water year and the period of record has been revised to 6,750 ft³/s, July 12, 2000; the maximum daily discharge for the 2000 water year revised to 1,710 ft³/s, July 12, 2000, superseding figures published in WDR MO-99-1 and WDR MO-00-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.81	4.8	2.1	15	3.7	18	9.2	153	5.4	15	15	44
2	0.82	7.4	2.1	15	3.6	16	8.6	12	89	8.2	346	20
3	1.1	5.5	2.0	12	3.6	14	8.2	8.7	8.9	7.1	26	7.8
4	1.1	4.7	3.1	11	3.6	13	7.8	26	7.0	6.3	15	6.7
5	1.1	13	3.3	9.7	3.5	12	7.5	17	6.3	5.8	27	5.8
6	0.99	5.6	3.3	9.1	5.3	12	86	57	23	5.7	26	5.4
7	1.00	4.3	5.0	8.7	4.4	11	13	21	6.4	5.2	12	5.0
8	0.93	4.2	5.5	8.1	3.8	10	9.4	8.6	5.5	4.9	11	4.1
9	0.94	4.2	5.1	7.6	5.6	10	8.4	7.7	5.2	4.6	9.7	3.3
10	1.1	4.2	3.9	7.1	5.3	9.7	7.9	35	66	21	9.1	3.4
11	1.0	4.0	3.4	6.9	4.7	9.2	7.7	14	86	4.7	8.9	30
12	1.1	4.1	3.8	6.4	4.3	9.0	7.4	7.5	96	122	8.1	33
13	1.8	4.2	26	6.3	4.1	47	7.2	81	43	7.3	7.8	40
14	0.94	13	5.4	5.9	151	10	6.9	34	10	5.8	7.6	6.4
15	0.92	7.9	4.0	5.6	27	9.1	6.7	11	8.4	5.1	7.2	5.0
16	0.94	3.6	3.6	6.2	15	8.6	9.4	56	7.7	6.0	6.8	4.5
17	2.8	3.2	3.3	5.7	13	8.4	7.3	19	7.3	4.5	6.2	4.1
18	1.4	3.2	3.6	5.4	28	8.3	6.4	12	6.9	4.4	5.9	3.9
19	3.4	3.1	3.2	5.2	82	49	17	10	6.6	3.9	6.3	4.1
20	1.4	2.9	2.9	5.3	18	30	7.1	9.5	6.3	3.6	5.6	3.6
21	1.2	2.8	2.9	4.8	16	14	6.2	8.5	6.1	3.5	5.4	21
22	1.2	2.7	2.7	4.7	34	11	6.0	8.0	5.8	4.7	5.1	6.0
23	1.1	2.7	2.9	4.3	15	9.9	6.0	7.6	5.6	3.4	4.8	3.0
24	1.1	2.6	3.6	4.0	17	9.3	63	12	5.4	3.3	4.6	2.7
25	76	2.5	3.4	3.6	14	12	e73	9.4	5.7	3.1	4.6	2.6
26	3.5	2.5	3.4	3.6	13	9.1	e14	6.7	43	2.9	4.7	2.7
27	20	2.4	3.9	3.3	14	8.5	e6.9	6.3	5.9	2.8	76	2.9
28	29	2.3	7.7	3.7	15	77	e6.8	6.1	5.3	2.8	12	2.6
29	88	2.1	24	5.0	---	14	20	5.9	5.0	2.8	8.5	2.8
30	7.3	2.1	166	3.8	---	11	5.8	13	145	3.0	110	13
31	5.9	---	32	4.3	---	9.8	---	5.8	---	123	8.5	---
MEAN	8.38	4.39	11.2	6.69	18.8	16.1	15.2	22.2	24.5	13.1	26.2	9.98
MAX	88	13	166	15	151	77	86	153	145	123	346	44
MIN	0.81	2.1	2.0	3.3	3.5	8.3	5.8	5.8	5.0	2.8	4.6	2.6
IN.	0.54	0.28	0.73	0.43	1.10	1.04	0.95	1.44	1.53	0.85	1.70	0.63

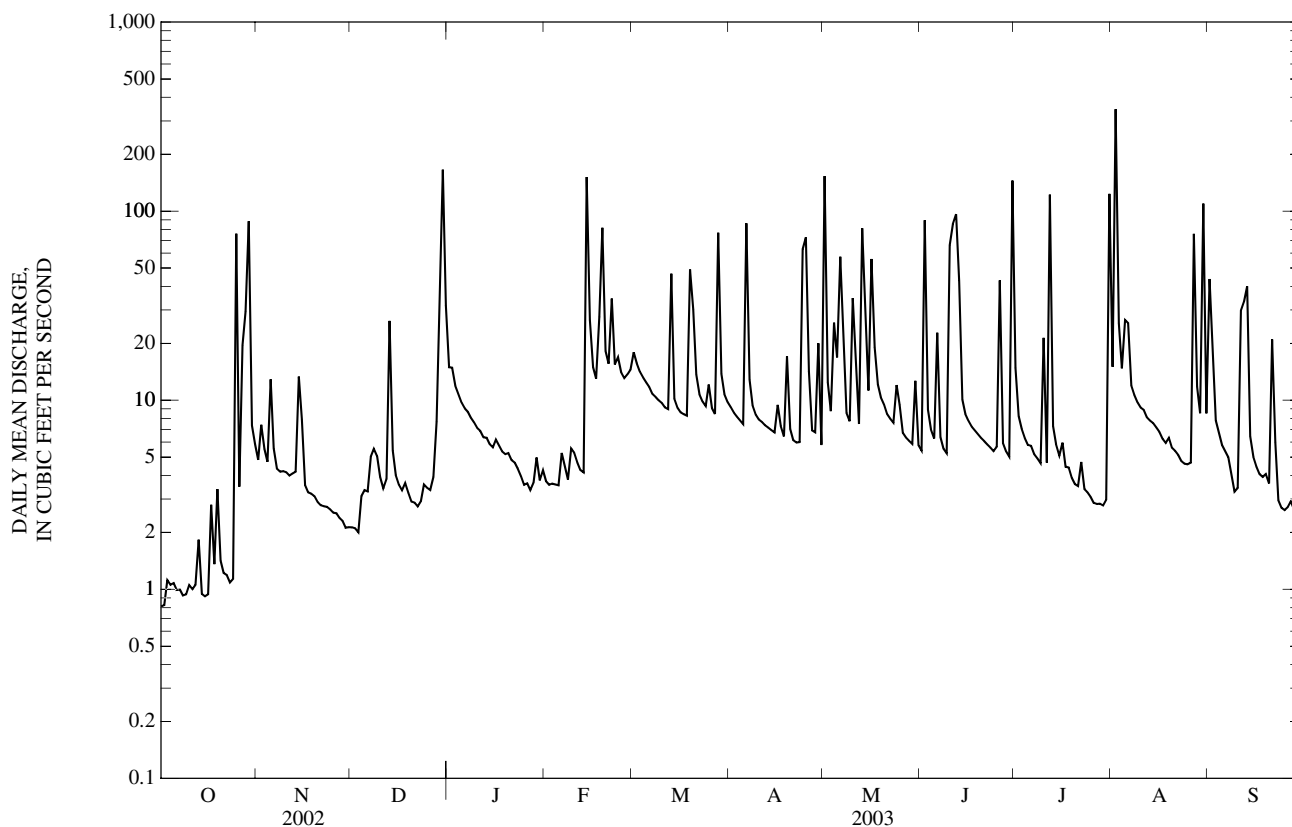
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

	13.0	15.7	13.8	17.4	20.2	21.9	23.4	31.4	31.9	19.7	11.1	34.1
MEAN	13.0	15.7	13.8	17.4	20.2	21.9	23.4	31.4	31.9	19.7	11.1	34.1
MAX	27.7	42.6	29.4	59.7	41.0	57.6	52.9	74.5	119	100	26.2	361
(WY)	(1937)	(1974)	(2000)	(1937)	(2001)	(1935)	(1933)	(2002)	(1935)	(2000)	(2003)	(1975)
MIN	5.02	4.39	5.33	4.33	6.30	7.90	4.13	8.84	6.60	5.62	4.37	1.99
(WY)	(2001)	(2003)	(2001)	(2000)	(1934)	(1936)	(2000)	(1936)	(1936)	(1936)	(1999)	(2002)

07052000 WILSON CREEK AT SPRINGFIELD, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	16.3		14.7		18.5	
HIGHEST ANNUAL MEAN					29.9	
LOWEST ANNUAL MEAN					8.26	
HIGHEST DAILY MEAN	878	May 8	346	Aug 2	2,160	Sep 12, 1975
LOWEST DAILY MEAN	0.81	Sep 30, Oct 1	0.81	Oct 1	0.81	Feb 16, 2000, Oct 1, 2002
ANNUAL SEVEN-DAY MINIMUM	0.84	Sep 26	0.99	Oct 1	0.84	Sep 26, 2002
MAXIMUM PEAK FLOW	---		1,750 ^a	Aug 2	6,750 ^a	Jul 12, 2000
MAXIMUM PEAK STAGE	---		8.84	Aug 2	12.70	Jul 12, 2000
INSTANTANEOUS LOW FLOW	---		0.59	Oct 1, 2	0.57	Oct 7, 1999
ANNUAL RUNOFF (INCHES)	12.46		11.22		14.12	
10 PERCENT EXCEEDS	27		29		37	
50 PERCENT EXCEEDS	4.7		6.3		9.0	
90 PERCENT EXCEEDS	1.2		2.7		3.3	

e Estimated

^a From rating extended above 600 ft³/s on basis of indirect measurement of peak flow.

07052100 WILSON CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°10'06", long 93°22'14", in NE ¼ NE ¼ sec. 6, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002 on right bank just downstream from bridge on County Road 156, 1 mile upstream of Sewage Treatment Plant, and 0.75 mi upstream of South Creek.

DRAINAGE AREA.--31.4 mi².

PERIOD OF RECORD.--Sept. 21, 1972 to Sept. 30, 1982, May 28, 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1149.65 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor except discharges above 5 ft³/s, which are fair. U.S.G.S satellite telemeter at station.

REVISIONS.--The maximum instantaneous stages for the water years 1999 and 2000 have been revised to 7.62 ft, May 4, 1999, and 9.49 ft, July 12, 2000. The maximum instantaneous discharge for 2000 water year revised to 5,480 ft³/s, and maximum daily discharge revised to 1,200 ft³/s on July 12, 2000, superseding figures published in WDR MO-99-1 and WDR MO-00-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

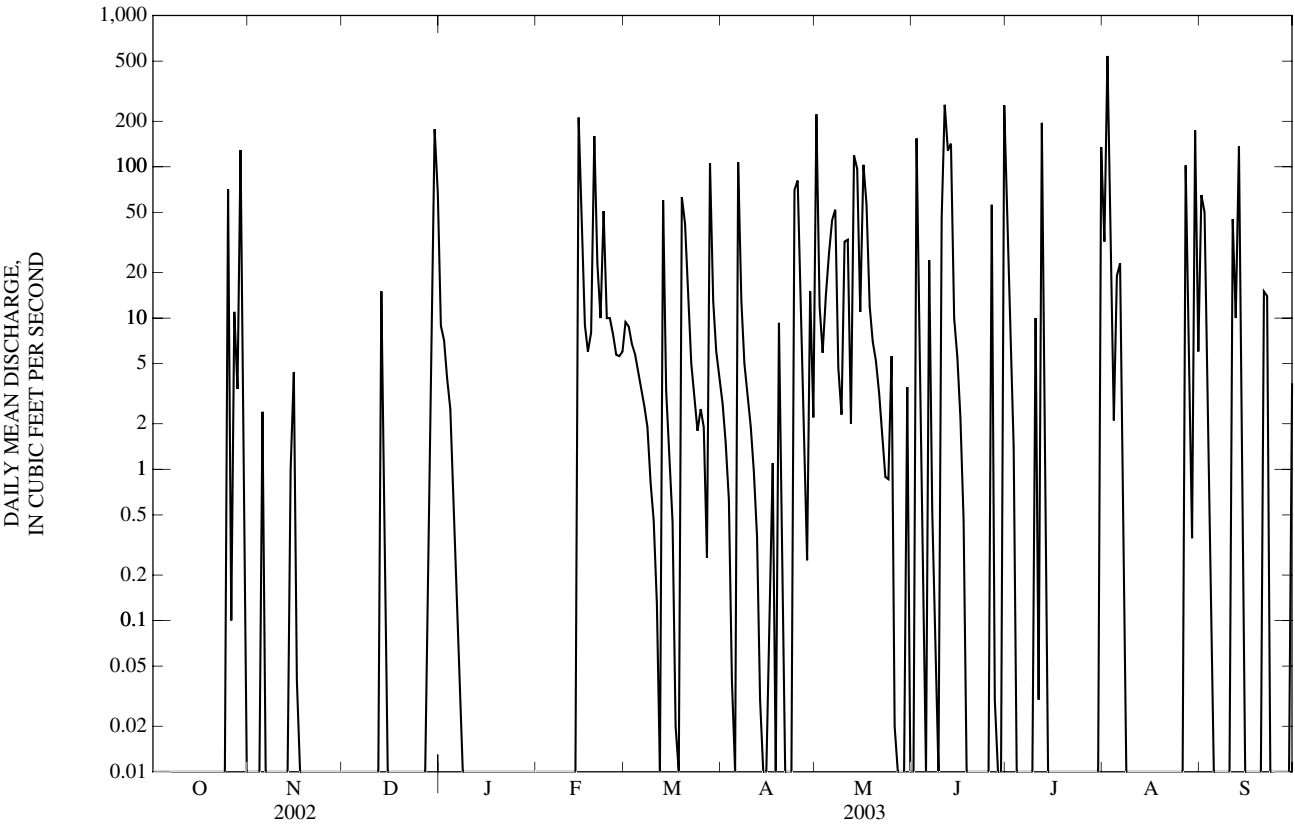
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	e0.00	e0.00	9.0	0.00	9.4	2.7	222	e0.00	25	32	65
2	e0.00	e0.00	e0.00	7.1	0.00	8.8	1.5	13	154	4.9	541	51
3	e0.00	e0.00	e0.00	4.1	0.00	6.9	0.64	6.0	6.5	1.5	25	0.66
4	e0.00	e0.00	e0.00	2.5	0.00	5.9	0.04	15	0.93	e0.01	2.1	e0.05
5	e0.00	2.4	e0.00	1.1	0.00	4.5	e0.00	27	0.02	e0.00	20	e0.00
6	e0.00	0.01	e0.00	e0.30	0.00	3.4	108	45	24	e0.00	23	e0.00
7	e0.00	e0.00	e0.00	e0.06	0.00	2.6	14	52	0.53	e0.00	0.30	e0.00
8	e0.00	e0.00	e0.00	e0.00	0.00	1.9	5.1	4.8	0.13	e0.00	e0.01	e0.00
9	e0.00	e0.00	e0.00	e0.00	0.00	0.81	3.1	2.4	0.01	e0.00	e0.00	e0.00
10	e0.00	e0.00	e0.00	e0.00	0.00	0.46	1.9	33	46	11	e0.00	e0.00
11	e0.00	e0.00	e0.00	e0.00	0.00	0.13	0.98	34	258	0.03	e0.00	45
12	e0.00	e0.00	e0.00	e0.00	0.00	0.00	0.36	2.1	129	196	e0.00	11
13	e0.00	e0.00	15	e0.00	0.00	60	0.03	119	143	3.1	e0.00	137
14	e0.00	1.0	e0.40	e0.00	211	3.3	0.00	97	11	e0.01	e0.00	2.0
15	e0.00	4.4	e0.00	e0.00	38	1.4	0.00	11	5.5	e0.00	e0.00	e0.01
16	e0.00	e0.04	e0.00	e0.00	9.1	0.45	e0.10	104	2.2	e0.00	e0.00	e0.00
17	e0.00	e0.00	e0.00	e0.00	6.0	0.03	1.2	57	0.47	e0.00	e0.00	e0.00
18	e0.00	e0.00	e0.00	e0.00	8.1	0.00	e0.00	13	e0.01	e0.00	e0.00	e0.00
19	e0.00	e0.00	e0.00	e0.00	159	64	9.3	7.1	e0.00	e0.00	e0.00	e0.00
20	e0.00	e0.00	e0.00	e0.00	24	43	0.46	5.2	e0.00	e0.00	e0.00	e0.00
21	e0.00	e0.00	e0.00	e0.00	10	13	0.01	3.2	e0.00	e0.00	e0.00	16
22	e0.00	e0.00	e0.00	e0.00	51	5.0	e0.00	1.9	e0.00	e0.00	e0.00	15
23	e0.00	e0.00	e0.00	e0.00	10	3.2	e0.00	0.89	e0.00	e0.00	e0.00	e0.01
24	e0.00	e0.00	e0.00	0.00	10	1.8	70	0.87	e0.00	e0.00	e0.00	e0.00
25	71	e0.00	e0.00	0.00	7.8	2.6	82	5.6	e0.00	e0.00	e0.00	e0.00
26	e0.10	e0.00	e0.00	0.00	5.8	1.9	4.8	0.03	56	e0.00	e0.00	0.00
27	11	e0.00	e0.00	0.00	5.7	0.27	0.97	e0.00	0.04	e0.00	103	0.00
28	3.4	e0.00	e0.30	0.00	6.1	105	0.26	e0.00	e0.00	e0.00	15	0.00
29	129	e0.00	18	0.00	---	14	16	e0.00	e0.00	e0.00	0.35	0.00
30	0.60	e0.00	178	0.00	---	6.1	2.3	3.5	255	e0.00	175	3.8
31	e0.00	---	66	0.00	---	4.1	---	0.01	---	135	6.0	---
MEAN	6.94	0.26	8.96	0.78	20.1	12.1	10.9	28.6	36.4	12.1	30.4	11.6
MAX	129	4.4	178	9.0	211	105	108	222	258	196	541	137
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.25	0.01	0.33	0.03	0.67	0.44	0.39	1.05	1.29	0.45	1.12	0.41

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

	15.1	20.2	13.8	11.6	17.8	31.0	28.2	39.7	27.1	17.7	10.5	12.6
MEAN	54.6	88.6	34.1	35.4	47.5	74.6	78.1	151	56.6	73.9	30.4	73.0
(WY)	(1973)	(1973)	(1974)	(1982)	(2001)	(1975)	(1979)	(2002)	(1981)	(2000)	(2003)	(1977)
MIN	2.04	0.26	0.56	0.36	2.55	1.08	0.050	3.55	4.31	3.17	1.23	0.33
(WY)	(2000)	(2003)	(2001)	(1977)	(1977)	(2001)	(2000)	(2000)	(2002)	(1980)	(1999)	(2002)

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	22.8		14.9		20.6	
HIGHEST ANNUAL MEAN					35.2	
LOWEST ANNUAL MEAN					9.43	
HIGHEST DAILY MEAN	1,810	May 8	541	Aug 2	1,810	May 8, 2002
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	0.00	At Times	0.00	At Times	0.00	Many Years
MAXIMUM PEAK FLOW	---		1,870	Jun 30	5,480	Jul 12, 2000
MAXIMUM PEAK STAGE	---		7.03	Jun 30	9.49	Jul 12, 2000
INSTANTANEOUS LOW FLOW	---		0.00	Many Days	0.00	Many Years
ANNUAL RUNOFF (AC-FT)	16,470		10,770		14,930	
10 PERCENT EXCEEDS	45		44		44	
50 PERCENT EXCEEDS	0.28		0.00		6.4	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



07052120 SOUTH CREEK NEAR SPRINGFIELD, MO

LOCATION.--Lat 37°09'16", long 93°21'51", Greene County, Hydrologic Unit 11010002, 50 ft downstream of State Highway FF bridge, 0.25 mi west of junction of James River Expressway and Highway FF.

DRAINAGE AREA.--10.5 mi².

PERIOD OF RECORD.--May 29, 1998 to present.

REVISED RECORDS.--WDR MO-01-1: 2000 (M).

GAGE.--Water-stage recorder. Elevation of gage is 1146.00 ft from topographic map.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	28	0.00	0.00	0.00	e489	0.00	13	0.00	7.3
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e272	40	0.00	103	7.0
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65	0.11	0.00	3.1	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e10	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	129	0.00	0.00	20	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	25	e65	6.3	0.00	0.69	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	11	e189	0.06	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.17	35	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	1.1	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98	38	0.00	0.00	3.5
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.4	1.5	24	0.00	4.2
13	0.00	0.00	1.2	0.00	0.00	e512	0.00	e79	2.7	0.05	0.00	32
14	0.00	0.00	0.00	0.00	e252	131	0.00	151	0.00	0.00	0.00	0.06
15	0.00	0.00	0.00	0.00	177	18	0.00	69	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	24	0.00	0.00	100	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	163	448	0.77	4.3	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	54	450	0.33	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.7	208	0.00	0.00	0.00	0.00	0.00	0.42
22	0.00	0.00	0.00	0.00	136	24	0.00	0.00	0.00	0.00	0.00	8.0
23	0.00	0.00	0.00	0.00	34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.49	0.00	e368	0.00	0.00	0.00	0.00	0.00
25	e482	0.00	0.00	0.00	0.00	0.00	e381	0.00	0.00	0.00	0.00	0.00
26	122	0.00	0.00	0.00	0.00	0.00	123	0.00	10	0.00	0.00	0.00
27	6.8	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00
28	e302	0.00	0.00	0.00	0.00	e298	0.00	0.00	0.00	0.00	0.00	0.00
29	e611	0.00	31	0.00	---	130	0.00	0.00	0.00	0.00	0.00	0.00
30	176	0.00	e339	0.00	---	5.5	0.00	0.00	e85	0.00	25	0.00
31	3.7	---	e298	0.00	---	5.8	---	0.00	---	0.00	0.37	---
MEAN	55.0	0.00	21.6	0.90	30.1	71.9	31.2	63.8	6.16	1.20	4.91	2.08
MAX	611	0.00	339	28	252	512	381	489	85	24	103	32
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IN.	6.04	0.00	2.37	0.10	2.98	7.90	3.32	7.01	0.65	0.13	0.54	0.22

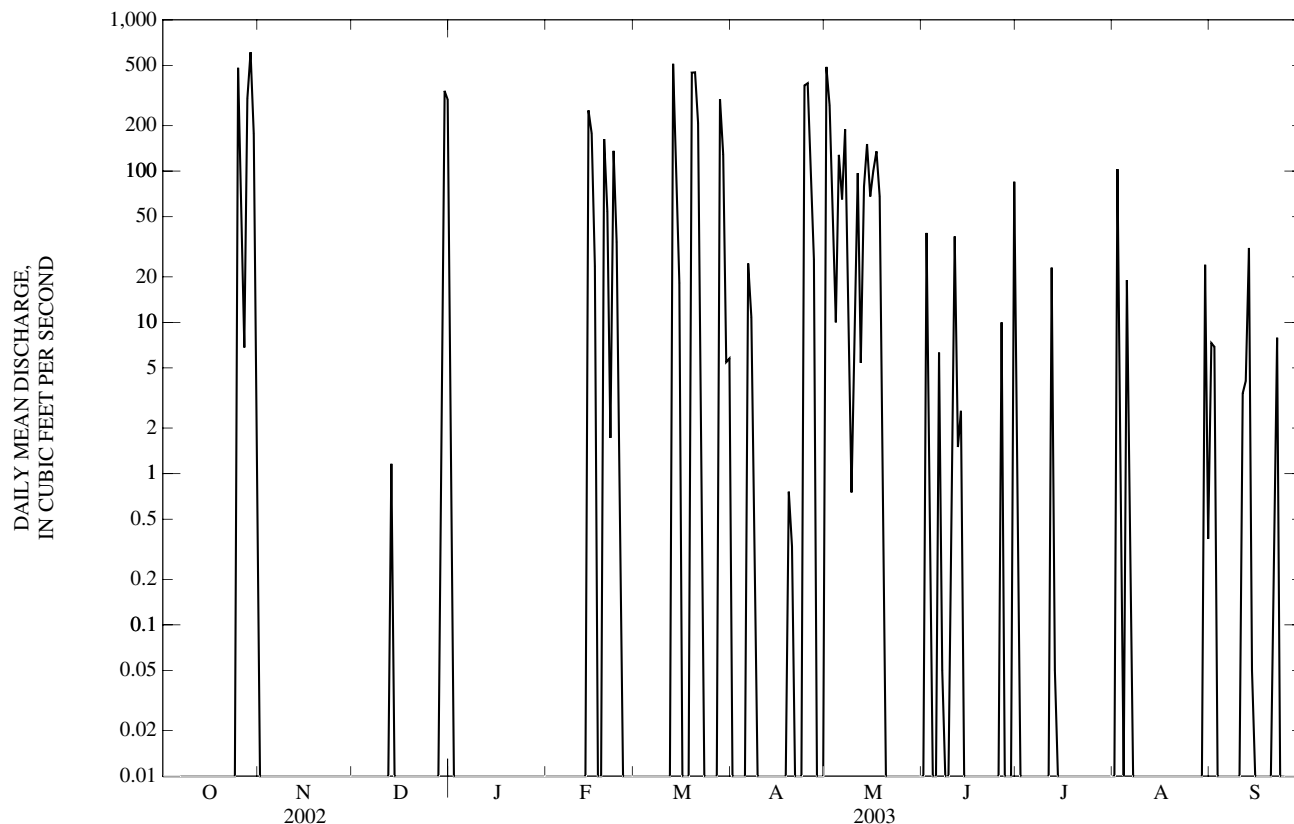
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2003, BY WATER YEAR (WY)

	MEAN											
MEAN	12.1	0.89	6.15	1.30	8.39	16.0	8.41	18.7	2.72	6.98	4.10	1.53
MAX	55.0	1.81	21.6	2.73	30.1	71.9	31.2	63.8	6.16	24.5	17.6	3.10
(WY)	(2003)	(1999)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)	(2002)	(1998)
MIN	0.00	0.00	0.00	0.00	1.63	0.09	0.14	0.44	0.56	0.70	0.00	0.00
(WY)	(2001)	(2003)	(2001)	(2001)	(2002)	(2001)	(2000)	(2001)	(1998)	(1998)	(1999)	(1999)

07052120 SOUTH CREEK NEAR SPRINGFIELD, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1998 - 2003	
ANNUAL MEAN	11.4		24.2		7.46	
HIGHEST ANNUAL MEAN					24.2	
LOWEST ANNUAL MEAN					1.57	
HIGHEST DAILY MEAN	611	Oct 29	611	Oct 29	611	Oct 29, 2002
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Years
ANNUAL SEVEN-DAY MINIMUM	0.00	At Times	0.00	At Times	0.00	At Times
MAXIMUM PEAK FLOW	---		Unknown	Mar 13	Unknown	Jul 12, 2000
MAXIMUM PEAK STAGE	---		7.16	Mar 13	9.63	Aug 17, 2002
INSTANTANEOUS LOW FLOW	---		0.00	Many Days	0.00	Many Years
ANNUAL RUNOFF (INCHES)	14.72		31.26		9.66	
10 PERCENT EXCEEDS	12		58		6.9	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



07052152 WILSON CREEK NEAR BROOKLINE, MO

LOCATION.--Lat 37°09'07", long 93°22'18", in NW ¼ NE ¼ NE ¼ sec.7, T.28 N., R.22 W., Greene County, Hydrologic Unit 11010002, at bridge on Farm Road 168, 2.0 mi southeast of Brookline, approximately 0.25 mi downstream from the Southwest Treatment Plant, and 0.5 mi downstream from South Creek.

DRAINAGE AREA.--39.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 10, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--No estimated daily discharges. Water-discharge records good. Natural flow partially regulated and affected by sewage effluent.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

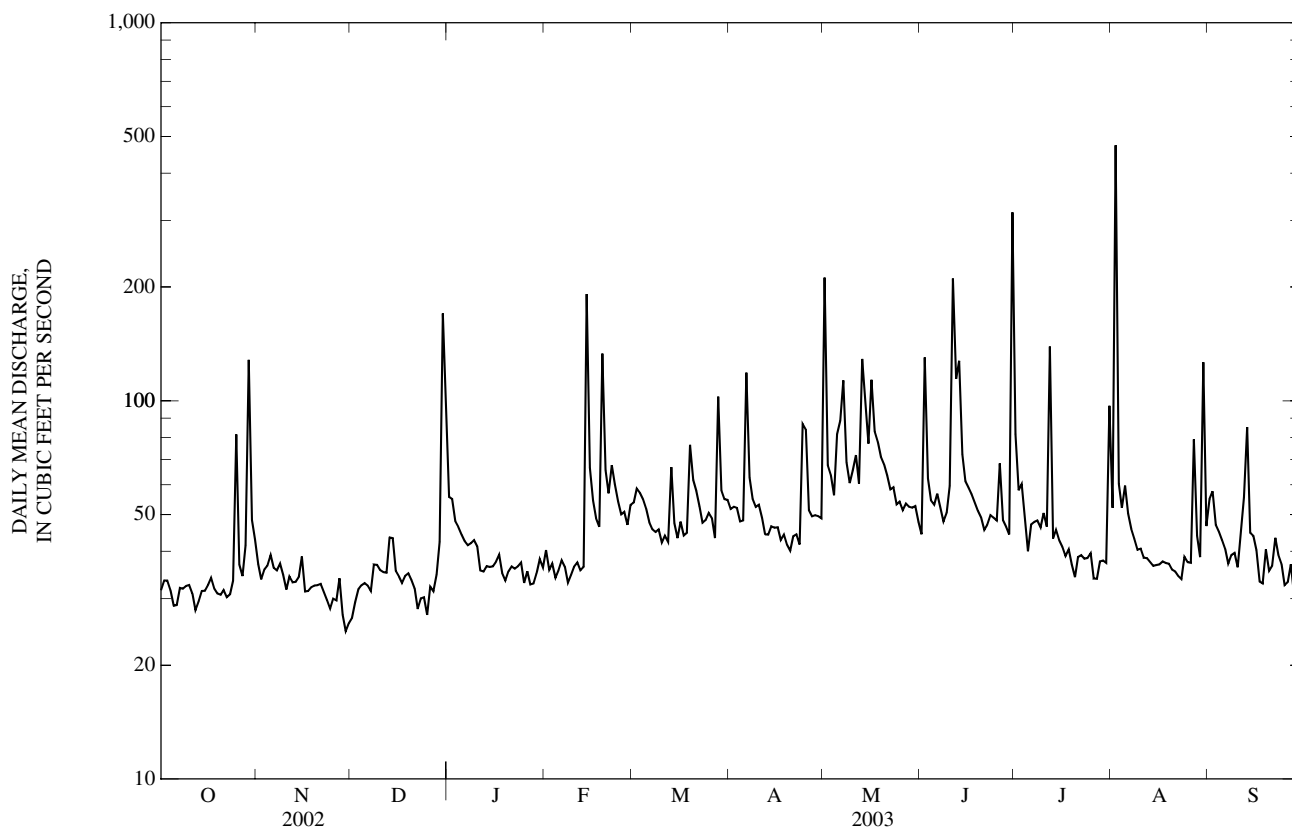
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	37	27	56	40	54	52	212	44	82	52	55
2	33	34	29	55	36	59	52	68	130	58	474	58
3	33	36	32	48	37	57	52	64	62	60	60	47
4	32	37	33	46	34	55	48	56	55	48	52	45
5	29	39	33	44	36	52	48	82	53	40	60	43
6	29	36	32	43	38	48	119	89	57	47	50	41
7	32	36	31	42	36	46	63	113	52	48	46	37
8	32	37	37	42	33	45	55	69	48	48	43	39
9	32	35	37	43	35	46	52	61	51	46	40	40
10	33	32	36	41	36	42	53	65	60	51	41	36
11	31	34	35	36	37	44	49	72	211	47	39	45
12	28	33	35	35	36	42	44	60	114	139	38	56
13	29	33	44	37	36	67	44	129	128	43	38	85
14	31	34	43	36	191	47	47	101	72	46	37	45
15	31	39	35	37	67	43	46	77	61	43	37	44
16	33	31	34	38	54	48	46	114	59	41	37	40
17	34	31	33	39	49	44	43	83	57	39	38	33
18	32	32	34	35	46	45	44	78	54	40	37	33
19	31	32	35	33	133	77	42	71	51	37	37	40
20	31	33	34	35	66	62	40	68	49	34	36	36
21	32	33	32	36	57	58	44	64	46	39	35	37
22	30	31	28	36	68	53	44	58	47	39	34	43
23	31	30	30	36	60	48	42	59	50	38	34	39
24	33	28	30	37	54	48	87	53	49	38	39	37
25	81	30	27	33	50	51	84	54	48	40	37	33
26	37	30	32	35	51	49	51	51	68	34	37	33
27	34	34	31	33	47	43	49	53	48	34	79	37
28	41	27	35	33	53	103	50	52	46	38	44	31
29	128	25	42	35	---	58	50	52	44	38	39	34
30	48	26	170	38	---	55	49	53	315	37	126	37
31	43	---	110	36	---	55	---	48	---	97	47	---
MEAN	37.6	32.8	40.5	39.0	54.1	53.0	53.0	75.1	74.3	48.7	59.5	42.0
MAX	128	39	170	56	191	103	119	212	315	139	474	85
MIN	28	25	27	33	33	42	40	48	44	34	34	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

MEAN	43.9	36.1	54.4	46.8	57.0	62.3	63.3	152	59.8	46.4	47.6	40.5
MAX	50.1	39.3	68.2	54.6	59.9	71.5	73.6	230	74.3	48.7	59.5	45.0
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2003)	(2003)	(2003)	(2001)
MIN	37.6	32.8	40.5	39.0	54.1	53.0	53.0	75.1	45.4	44.1	39.2	34.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)

07052152 WILSON CREEK NEAR BROOKLINE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL MEAN	63.8		50.8		59.3	
HIGHEST ANNUAL MEAN					67.8	
LOWEST ANNUAL MEAN					50.8	
HIGHEST DAILY MEAN	2,750	May 8	474	Aug 2	2,750	May 8, 2002
LOWEST DAILY MEAN	25	Nov 29	25	Nov 29	25	Nov 29, 2002
ANNUAL SEVEN-DAY MINIMUM	28	Nov 26	28	Nov 26	28	Nov 26, 2002
MAXIMUM PEAK FLOW	---		2,410	Jun 30	Unknown	May 8, 2002
MAXIMUM PEAK STAGE	---		7.76	Jun 30	10.27	May 8, 2002
INSTANTANEOUS LOW FLOW	---		16	Several Days	6.1	Sep 18, 2002
ANNUAL RUNOFF (INCHES)	21.94		17.45		20.39	
10 PERCENT EXCEEDS	81		70		81	
50 PERCENT EXCEEDS	40		43		43	
90 PERCENT EXCEEDS	32		32		33	



07052152 WILSON CREEK NEAR BROOKLINE, MO--Continued
(Ambient Water-Quality Monitoring Network)

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 19...	1415	Environmental	38	15.1	169	7.2	1,150	19.0	200	62.5	9.55	14.2
JAN 28...	1335	Environmental	37	18.8	190	7.4	1,110	13.8	--	--	--	--
JAN 28...	1336	Replicate	--	18.4	186	7.4	1,110	13.8	--	--	--	--
MAR 18...	1025	Environmental	46	16.5	178	7.3	1,050	16.4	--	--	--	--
MAY 20...	1515	Environmental	73	14.9	169	7.6	1,070	19.7	220	79.2	6.28	10.4
JUL 28...	1225	Environmental	44	13.7	177	7.4	1,290	26.0	--	--	--	--
SEP 16...	0835	Environmental	38	11.8	144	7.3	1,220	23.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfixed, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfixed, titr., field, mg/L (00450)	Carbonate, wat unfixed, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 19...	152	152	153	186	<1	153	0.63	80.4	655	<10	1.4	0.21	9.10
JAN 28...	--	133	132	161	<1	--	--	--	--	<10	1.3	E.04	13.4
JAN 28...	--	--	--	--	--	--	--	--	--	11	1.3	E.03	13.0
MAR 18...	--	153	152	185	<1	--	--	--	--	<10	1.6	0.09	14.4
MAY 20...	118	204	206	252	<1	132	0.5	68.6	624	<10	5.0	3.35	5.50
JUL 28...	--	118	118	144	<1	--	--	--	--	<16	1.6	0.15	15.9
SEP 16...	--	168	167	203	<1	--	--	--	--	<10	6.4d	<0.41d	0.95d

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic, water, fltrd, μ g/L (01000)	Cadmium, water, fltrd, μ g/L (01025)	Cadmium, water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)
NOV 19...	0.022	0.29	0.32	0.64	1,020	1,020	124	40	227	<3.9	0.07	<0.2	E5n
JAN 28...	<0.008	0.39	0.42	0.69	9k	52	28k	--	--	--	--	--	--
JAN 28...	<0.008	0.38	0.41	0.64	27k	67	37k	--	--	--	--	--	--
MAR 18...	0.011	0.39	0.45	0.76	77	550k	325	--	--	--	--	--	--
MAY 20...	0.157	0.23	0.28	0.38	240	1,200	64	40	114	0.8	0.05	<0.2	E3
JUL 28...	0.012	0.09	0.20	0.38	44	680	397	--	--	--	--	--	--
SEP 16...	0.246	0.14	0.18	0.30	520k	480k	535k	--	--	--	--	--	--

07052152 WILSON CREEK NEAR BROOKLINE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 19...	30	0.72	1	27.5	<0.02	<7.5	39	37
JAN 28...	--	--	--	--	--	--	--	--
JAN 28...	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--
MAY 20...	34	0.45	M	42.9	<0.02	1.9	33	33
JUL 28...	--	--	--	--	--	--	--	--
SEP 16...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

07052160 WILSON CREEK NEAR BATTLEFIELD, MO

LOCATION.--Lat 37°07'04", long 93°24'14", in SW 1/4 NW 1/4 sec.24, T.28 N., R.23 W., Greene County, Hydrologic Unit 11010002, on left bank 50 ft downstream from bridge on Greene County Road 182, 0.3 mi upstream from McElhane Branch, and 1.8 mi west of Battlefield.

DRAINAGE AREA.--58.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1968 to September 1970, October 1972 to September 1982, Aug. 3, 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,100 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 20, 1972, at site 50 ft upstream. For period 1972 to 1982, at site 250 ft downstream.

REMARKS.--No estimated daily discharges. Water-discharge records good. Natural flow partially regulated and affected by sewage effluent. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

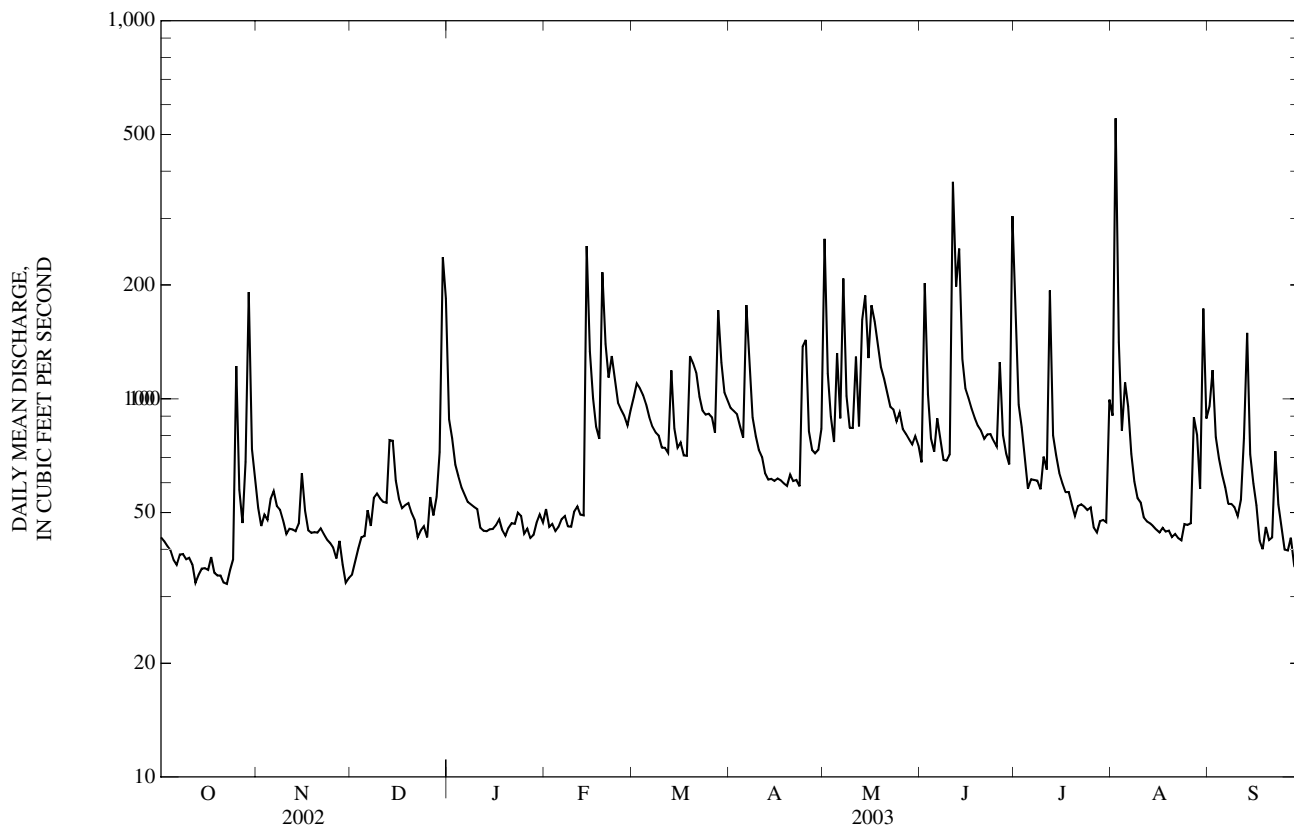
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	51	34	88	51	101	95	265	68	172	90	96
2	42	46	37	79	46	110	93	117	202	96	551	119
3	41	49	40	67	47	107	91	90	103	84	141	79
4	40	48	43	62	45	102	84	77	79	70	82	69
5	37	54	43	58	46	97	79	132	72	58	110	63
6	36	57	51	56	48	89	177	89	89	61	96	58
7	39	52	46	53	49	84	120	208	78	61	72	53
8	39	51	55	53	46	82	89	102	69	61	60	53
9	38	48	56	52	46	80	80	84	69	58	55	52
10	38	44	55	51	50	74	73	84	71	70	53	49
11	36	45	53	46	52	74	70	129	375	65	49	54
12	33	45	53	45	49	72	64	85	198	193	47	79
13	34	45	78	45	49	119	61	162	250	80	47	149
14	36	47	77	45	254	84	61	188	127	71	46	71
15	36	64	61	45	133	74	61	128	107	64	45	60
16	35	51	54	46	100	77	62	177	100	60	44	52
17	38	45	51	48	84	71	61	160	94	57	46	42
18	35	44	52	45	78	71	60	139	89	57	45	40
19	34	44	53	43	216	130	59	121	85	53	45	46
20	34	44	50	46	140	124	63	113	82	49	43	42
21	33	45	48	47	114	117	61	104	78	52	44	43
22	32	44	43	47	130	101	61	95	81	53	43	73
23	35	42	45	50	112	93	59	94	81	52	42	53
24	38	42	46	49	98	91	137	87	77	51	47	45
25	122	40	43	44	93	91	143	92	75	52	46	40
26	57	38	55	45	90	89	82	83	125	46	47	40
27	47	42	49	43	85	81	73	81	80	44	89	43
28	68	36	55	44	93	172	72	78	72	47	80	36
29	191	33	72	47	---	125	73	76	67	48	58	38
30	74	34	237	49	---	104	83	80	304	47	173	41
31	61	---	184	47	---	99	---	75	---	100	89	---
MEAN	48.5	45.7	61.9	51.1	87.3	96.3	81.6	116	115	68.8	81.5	59.3
MAX	191	64	237	88	254	172	177	265	375	193	551	149
MIN	32	33	34	43	45	71	59	75	67	44	42	36
IN.	0.96	0.87	1.22	1.01	1.56	1.90	1.56	2.29	2.20	1.36	1.61	1.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2003, BY WATER YEAR (WY)

MEAN	60.4	99.7	81.6	73.7	96.4	139	115	120	98.6	76.4	55.1	58.3
MAX	103	354	208	169	189	289	281	378	201	236	82.4	155
(WY)	(1973)	(1973)	(1974)	(1973)	(2001)	(1973)	(1973)	(2002)	(1974)	(2000)	(1982)	(1977)
MIN	36.1	23.9	23.4	24.9	32.1	53.4	57.0	45.7	48.5	34.9	27.7	25.3
(WY)	(1977)	(1977)	(1977)	(1977)	(1970)	(1976)	(2000)	(1977)	(1969)	(1969)	(1970)	(1980)

07052160 WILSON CREEK NEAR BATTLEFIELD, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1968 - 2003	
ANNUAL MEAN	109		76.0		90.4	
HIGHEST ANNUAL MEAN					150	
LOWEST ANNUAL MEAN					56.9	
HIGHEST DAILY MEAN	2,730	May 8	551	Aug 2	2,830	May 20, 1979
LOWEST DAILY MEAN	32	Oct 22	32	Oct 22	17	Aug 27, 1970
ANNUAL SEVEN-DAY MINIMUM	34	Oct 16	34	Oct 16	20	Aug 24, 1970
MAXIMUM PEAK FLOW	---		1,810	Jun 30	7,240	May 20, 1979
MAXIMUM PEAK STAGE	---		7.34	Jun 30	14.03	May 20, 1979
INSTANTANEOUS LOW FLOW	---		21	Oct 21,22	11	Oct 24, 1999
ANNUAL RUNOFF (INCHES)	25.41		17.69		21.06	
10 PERCENT EXCEEDS	195		125		165	
50 PERCENT EXCEEDS	66		61		59	
90 PERCENT EXCEEDS	42		42		31	



07052160 WILSON CREEK NEAR BATTLEFIELD, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 22...	0935	Environmental	23	6.3	70	7.3	967	18.2	--	--	--	--
25...	0855	Environmental	335	7.2	79	7.1	734	17.8	170	56.2	6.25	9.58
25...	0856	Replicate	--	--	--	--	--	--	160	55.9	6.14	9.47
NOV 19...	1145	Environmental	43	10.6	108	7.6	926	15.0	220	72.9	8.56	8.85
DEC 10...	1300	Environmental	55	11.5	114	7.5	1,210	12.8	--	--	--	--
JAN 28...	1105	Environmental	47	11.6	107	7.5	889	10.2	220	72.8	8.19	10.0
FEB 20...	1045	Environmental	145	11.4	108	7.1	731	11.4	--	--	--	--
MAR 18...	0915	Environmental	60	8.4	87	7.2	780	14.4	--	--	--	--
28...	1100	Environmental	232	9.9	--	7.4	914	12.3	250	87.3	6.85	7.61
APR 23...	1140	Environmental	54	10.6	112	7.3	1,000	16.3	--	--	--	--
MAY 20...	1215	Environmental	116	9.6	104	7.3	781	17.6	240	88.5	5.22	5.74
JUN 25...	1555	Environmental	81	6.4	80	7.4	1,010	23.3	--	--	--	--
JUL 28...	1350	Environmental	49	9.1	116	7.4	1,110	25.2	210	67.2	9.52	11.4

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 22...	--	144	146	178	<1	--	--	--	--	<10	0.66	E.03	8.78
25...	87.1	140	142	173	<1	91.9	0.40	52.5	458	300	4.2	0.90	5.26
25...	85.2	--	--	--	<1	91.2	0.50	51.7	451	292	4.9	0.86	5.16
NOV 19...	99.6	158	159	194	<1	103	0.40	73.9	548	<10	0.53	<0.04	9.41
DEC 10...	--	170	169	206	<1	--	--	--	--	<10	0.63	0.12	6.99
JAN 28...	91.6	150	150	183	<1	102	0.41	62.1	521	<10	0.72	<0.04	4.01
FEB 20...	--	149	150	183	<1	--	--	--	--	<10	0.96	0.05	5.13
MAR 18...	--	165	166	202	<1	--	--	--	--	<10	0.82	0.06	10.8
28...	95.3	172	174	212	<1	116	0.32	60.3	553	34	1.6	0.48	7.30
APR 23...	--	186	189	230	<1	--	--	--	--	<10	1.8	1.00	8.36
MAY 20...	63.7	198	201	245	<1	79.8	0.30	44.0	473	<10	0.68	0.16	4.42
JUN 25...	--	180	180	220	<1	--	--	--	--	<10	2.3	1.28	8.95
JUL 28...	136	149	145	176	<1	145	0.50	95.0	658	<10	0.84	0.06	11.2

07052160 WILSON CREEK NEAR BATTLEFIELD, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
OCT													
22...	0.015	0.29	0.31	0.33	100	235	82	--	--	--	--	--	--
25...	0.054	0.24	0.26	2.46	21,000	33,000	21,000	10	4,020	--u	0.07	0.2	6
25...	0.054	0.23	0.25	2.41	--	--	--	11	4,090	--u	0.06	E.3n	E5n
NOV													
19...	0.021	0.28	0.29	0.30	73	190	58	18	50	<3.9	0.07	<0.2	<6
DEC													
10...	0.066	0.15	0.17	0.18	16k	78k	12k	--	--	--	--	--	--
JAN													
28...	E.006	0.10	0.10	0.35	32k	130k	66	26	87	2.8	0.17	<0.2	E4
FEB													
20...	0.013	0.09	0.11	0.23	440	600k	389	--	--	--	--	--	--
MAR													
18...	0.216	0.46	0.48	0.56	56	540k	360	--	--	--	--	--	--
28...	0.128	0.25	0.30	0.51	1,900k	630	3,700	21	531	3.4	0.11	<0.2	<6
APR													
23...	0.163	0.29	0.32	0.36	17k	110	7k	--	--	--	--	--	--
MAY													
20...	0.100	0.22	0.25	0.31	23k	112	57k	12	117	0.6	0.05	<0.2	<6
JUN													
25...	0.698	0.14	0.17	0.20	59	160	35	--	--	--	--	--	--
JUL													
28...	0.022	0.14	0.20	0.22	3k	170	155	25	119	--u	1.78	<0.2	E4n

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)	2,6-Di- ethyl- aniline water fltrd 0.7µ GF ug/L (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)
OCT													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	40	0.40	30	133	0.20	--u	21	124	<0.006	<0.006	<0.006	<0.004	<0.005
25...	35	0.40	31	129	0.10	--u	21	129	<0.006	<0.006	<0.006	<0.004	<0.005
NOV													
19...	17	0.41	M	11.4	<0.02	E5.4n	24	22	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
28...	23	0.42	M	15.7	<0.02	8.8	33	33	--	--	--	--	--
FEB													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	24	0.63	3	46.0	0.05	9.9	33	45	<0.006	<0.006	0.029	<0.004	<0.005
APR													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
20...	E10	0.20	M	18.9	<0.02	0.9	20	21	--	--	--	--	--
JUN													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
28...	10	0.55	1	14.7	<0.02	--u	28	29	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07052160 WILSON CREEK NEAR BATTLEFIELD, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd, 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Pron- amide, water, fltrd, 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd, 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd, 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd, µg/L (82665)	Terbu- fos, water, fltrd, 0.7µ GF µg/L (82675)
OCT 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
OCT 25...	<0.010	<0.004	<0.022	<0.011	0.08	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
OCT 25...	<0.010	<0.004	<0.022	<0.011	0.08	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
NOV 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 28...	<0.010	<0.004	<0.022	<0.011	0.06	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
APR 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 28...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
OCT 22...	--	--	--
OCT 25...	S.005	0.049	<0.009
OCT 25...	<0.005	0.050	<0.009
NOV 19...	--	--	--
DEC 10...	--	--	--
JAN 28...	--	--	--
FEB 20...	--	--	--
MAR 18...	--	--	--
MAR 28...	<0.005	<0.002	<0.009
APR 23...	--	--	--
MAY 20...	--	--	--
JUN 25...	--	--	--
JUL 28...	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

S -- Most probable value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above LT-MDL

Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

07052250 JAMES RIVER NEAR BOAZ, MO

LOCATION.--Lat 37°00'25", long 93°21'50", in NE ¼ NE ¼ NW ¼ sec.32, T.27 N., R.22 W., Christian County, Hydrologic Unit 11010002, on left bank 150 ft downstream from Frazier Bridge, 0.2 mi upstream from Turkey Hollow, and 2.0 mi southeast of Boaz.

DRAINAGE AREA.--462 mi².

WATER-DISCHARGE RECORDS

PREIOD OF RECORD.--October 1972 to September 1980, October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1035.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Partially regulated at low flow by Lake Springfield and sewage effluent from Southwest Treatment Plant.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	109	49	775	82	432	e490	392	154	648	170	270
2	56	91	54	525	79	522	e410	421	291	256	846	336
3	58	93	57	406	77	631	352	413	310	197	689	290
4	57	89	69	335	76	621	309	347	230	170	381	277
5	56	95	64	285	74	560	280	373	204	139	323	203
6	54	102	64	250	78	495	490	302	198	131	290	162
7	57	94	66	215	80	435	744	619	218	123	212	135
8	62	86	71	190	77	391	633	477	176	114	164	114
9	57	83	81	188	74	359	524	382	154	110	150	100
10	54	75	80	176	83	325	444	328	149	116	133	93
11	52	73	78	153	90	296	389	373	1,120	121	113	90
12	49	74	76	142	92	280	345	382	1,700	269	114	141
13	47	69	97	130	91	337	312	333	1,880	239	105	261
14	49	70	128	125	338	307	285	572	1,190	184	96	239
15	52	87	105	119	558	283	262	545	819	150	93	177
16	55	92	88	119	656	267	255	538	621	126	87	148
17	59	74	86	111	525	267	250	679	490	115	84	123
18	59	69	81	103	440	245	234	691	396	112	79	107
19	58	71	87	102	680	e245	215	589	338	104	80	102
20	57	71	146	99	1,180	e510	224	496	292	96	73	101
21	55	69	220	102	896	e930	205	423	249	93	70	98
22	54	67	162	102	730	e1,030	191	366	226	97	67	150
23	51	64	130	90	734	e960	182	322	201	90	64	145
24	54	61	134	86	680	e770	273	284	178	85	65	121
25	141	57	112	80	567	e660	315	271	164	81	65	105
26	125	58	98	78	496	e540	327	259	213	73	64	93
27	89	62	95	79	452	e450	300	233	194	65	64	92
28	120	63	84	75	425	e480	269	208	157	65	137	86
29	306	52	98	79	---	e700	244	190	152	68	83	78
30	169	51	215	84	---	e670	234	182	223	68	166	84
31	131	---	945	82	---	e600	---	173	---	72	243	---
MEAN	77.4	75.7	126	177	372	503	333	392	430	141	173	151
MAX	306	109	945	775	1,180	1,030	744	691	1,880	648	846	336
MIN	47	51	49	75	74	245	182	173	149	65	64	78
IN.	0.19	0.18	0.32	0.44	0.84	1.26	0.80	0.98	1.04	0.35	0.43	0.36

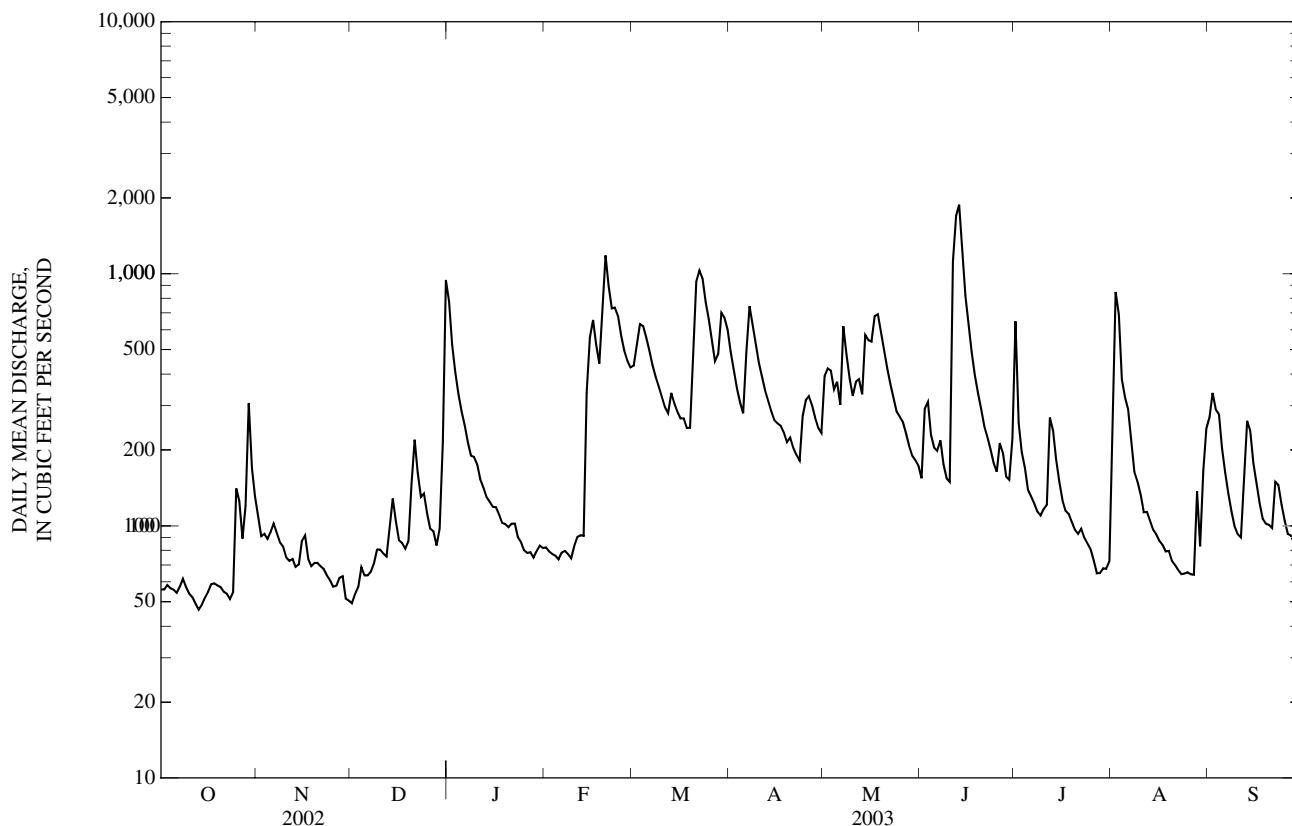
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

	211	642	431	360	546	1,133	842	860	446	293	147	268
MEAN	444	2,292	1,122	1,105	1,465	2,106	1,755	2,353	1,294	990	359	1,222
(WY)	(1978)	(1973)	(1974)	(1973)	(1975)	(1978)	(1973)	(2002)	(1974)	(1979)	(1979)	(1977)
MIN	63.4	55.1	55.0	53.3	101	183	268	116	170	67.3	54.7	40.7
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1976)	(1977)	(1977)	(1980)	(1980)	(1980)	(1980)

07052250 JAMES RIVER NEAR BOAZ, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	476		245		514	
HIGHEST ANNUAL MEAN					879	
LOWEST ANNUAL MEAN					242	
HIGHEST DAILY MEAN	13,400	May 8	1,880	Jun 13	15,400	Nov 2, 1972
LOWEST DAILY MEAN	47	Oct 13	47	Oct 13	36	Sep 22, 1980
ANNUAL SEVEN-DAY MINIMUM	51	Oct 10	51	Oct 10	38	Sep 21, 1980
MAXIMUM PEAK FLOW	---		2,420	Jun 13	21,700	May 8, 2002
MAXIMUM PEAK STAGE	---		5.86	Jun 13	16.76	May 8, 2002
INSTANTANEOUS LOW FLOW	---		39	Oct 12-14	35	Sep 19, 2002
ANNUAL RUNOFF (INCHES)	13.98		7.20		15.12	
10 PERCENT EXCEEDS	948		563		1,100	
50 PERCENT EXCEEDS	180		149		233	
90 PERCENT EXCEEDS	60		64		67	

e Estimated



07052250 JAMES RIVER NEAR BOAZ, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1967 to September 1982, November 1983 to June 1987, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 19...	1000	Environmental	75	10.2	90	7.8	773	8.8	170	59.3	5.85	5.12
MAR 18...	1330	Environmental	245	10.9	119	8.2	533	17.0	--	--	--	--
APR 23...	0950	Environmental	184	7.3	77	7.5	555	16.0	--	--	--	--
MAY 20...	1015	Environmental	504	6.7	75	7.8	475	20.1	200	68.2	7.28	2.90
JUN 25...	1430	Environmental	157	7.2	92	7.8	589	26.6	--	--	--	--
JUL 30...	0850	Environmental	71	5.0	64	7.5	906	25.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 19...	55.5	187	189	230	<1	77.1	0.4	55.5	438	<10	0.38	<0.04	4.64
MAR 18...	--	156	156	190	<1	--	--	--	--	<10	0.53	0.06	5.51
APR 23...	--	170	172	210	<1	--	--	--	--	<10	0.42	<0.04	3.98
MAY 20...	19.4	169	171	208	<1	27.7	<0.2	17.4	280	15	0.45	<0.04	2.56
JUN 25...	--	167	167	203	<1	--	--	--	--	<10	0.50	0.08	4.65
JUL 30...	--	159	161	196	<1	--	--	--	--	11	0.66	E.03	6.67

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 19...	E.006	0.14	0.14	0.14	23	21k	22	E2	28	E1.1n	0.06	<0.2	<6
MAR 18...	0.218	0.10	0.12	0.16	15k	66	14k	--	--	--	--	--	--
APR 23...	0.015	0.12	0.14	0.15	13k	59	11k	--	--	--	--	--	--
MAY 20...	0.041	0.06	0.08	0.14	42	124	80	15	349	1.0	<0.04	<0.2	<6
JUN 25...	0.109	0.09	0.11	0.12	8k	30	13k	--	--	--	--	--	--
JUL 30...	0.016	0.14	0.16	0.19	19k	69k	225	--	--	--	--	--	--

07052250 JAMES RIVER NEAR BOAZ, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)	2,6-Di- ethyl- aniline water fltrd 0.7µ GF (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)
NOV 19...	<10	0.23	<1	E1.6n	<0.02	E2.5n	13	14	<0.006	E.005	<0.006	<0.004	<0.005
MAR 18...	--	--	--	--	--	--	--	--	<0.006	E.003	<0.006	<0.004	<0.005
APR 23...	--	--	--	--	--	--	--	--	<0.006	E.003	<0.006	<0.004	<0.005
MAY 20...	<10	E.06	2	11.7	E.01	1.5	2	9	<0.006	E.004	<0.006	<0.004	<0.005
JUN 25...	--	--	--	--	--	--	--	--	<0.006	E.004	<0.006	<0.004	<0.005
JUL 30...	--	--	--	--	--	--	--	--	<0.006	<0.006	<0.006	<0.004	<0.005

Date	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7µ GF µg/L (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo- furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF µg/L (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	Diazi- non, water, fltrd, µg/L (39572)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd µg/L (82677)
NOV 19...	E.007n	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.060	<0.003	0.011	<0.005	<0.02
MAR 18...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	E.005n	<0.005	<0.02
APR 23...	0.011	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	0.006	<0.005	<0.02
MAY 20...	0.044	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	0.009	<0.005	<0.02
JUN 25...	0.020	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	0.009	<0.005	<0.02
JUL 30...	<0.007	E.112	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	0.018	<0.005	<0.02

Date	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7µ GF µg/L (82663)	Etho- prop, water, fltrd 0.7µ GF µg/L (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µ GF µg/L (82671)	Naprop- amide, water, fltrd 0.7µ GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)
NOV 19...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	<0.013	<0.006	<0.002	<0.007	<0.003
MAR 18...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	<0.013	<0.006	<0.002	<0.007	<0.003
APR 23...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.020	<0.013	<0.006	<0.002	<0.007	<0.003
MAY 20...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	E.006n	<0.006	<0.002	<0.007	<0.003
JUN 25...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	<0.013	<0.006	<0.002	<0.007	<0.003
JUL 30...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	<0.013	<0.006	<0.002	<0.007	<0.003

07052250 JAMES RIVER NEAR BOAZ, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd, 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Pron- amide, water, fltrd, 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd, 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd, 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd, 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd, 0.7µ GF µg/L (82675)
NOV 19...	<0.010	<0.004	<0.022	<0.011	0.03	<0.004	<0.010	<0.011	<0.02	E.004n	0.02	<0.034	<0.02
MAR 18...	<0.010	<0.004	<0.022	<0.011	E.01n	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
APR 23...	<0.010	<0.004	<0.022	<0.011	0.02	<0.004	<0.010	<0.011	<0.02	0.068	<0.02	<0.034	<0.02
MAY 20...	<0.010	<0.004	<0.022	<0.011	0.02	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
JUN 25...	<0.010	<0.004	<0.022	<0.011	0.03	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
JUL 30...	<0.010	<0.004	<0.022	<0.011	0.04	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
NOV 19...	<0.005	<0.002	<0.009
MAR 18...	<0.005	<0.002	<0.009
APR 23...	<0.005	<0.002	<0.009
MAY 20...	<0.005	<0.002	<0.009
JUN 25...	<0.005	<0.002	<0.009
JUL 30...	<0.005	<0.002	<0.009

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

LOCATION.--Lat 36°58'30", long 93°19'39", in SW 1/4 NW 1/4 NE 1/4 sec.10, T.26 N., R.10 W., Christian County, Hydrologic Unit 11010002, on downstream side of center pier of Aspen Road bridge, 12.4 mi southeast of junction of Highway 160 and 60.

WATER-DISCHARGE RECORDS

REMARKS.--Water-discharge records good. U.S.G.S. satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	49	27	456	36	229	189	164	56	153	16	31
2	18	46	27	324	35	286	176	274	60	107	126	97
3	18	46	27	237	35	364	164	281	64	83	231	171
4	17	45	35	188	32	361	154	228	60	68	152	140
5	15	45	36	157	31	324	142	193	57	57	119	108
6	15	46	35	135	33	281	236	168	57	51	99	85
7	15	44	34	118	34	243	1,330	146	56	47	76	68
8	14	41	34	106	32	215	788	129	51	45	62	56
9	15	39	36	97	32	189	530	117	48	41	53	48
10	16	39	37	88	34	170	388	110	47	39	46	42
11	16	35	37	81	33	156	305	108	91	37	41	39
12	15	34	37	75	33	147	250	94	146	71	37	127
13	14	33	48	70	34	149	211	93	388	78	34	226
14	15	34	56	66	63	139	181	114	261	60	31	165
15	15	35	53	62	97	132	160	110	198	e48	29	132
16	15	34	50	61	186	128	142	120	158	e42	26	105
17	17	34	50	57	208	124	132	146	131	e36	24	87
18	18	34	84	54	192	120	123	160	113	e33	22	72
19	20	32	107	52	239	133	115	155	98	e32	20	62
20	22	32	157	51	512	165	113	139	88	e30	18	53
21	22	31	130	48	477	296	114	124	80	e29	17	51
22	22	31	108	45	387	406	114	110	73	29	16	69
23	24	28	96	43	442	365	108	98	66	27	14	53
24	19	29	93	41	444	310	121	92	61	24	14	44
25	32	29	83	39	348	267	158	87	56	23	13	39
26	27	28	74	38	289	232	256	80	62	20	12	36
27	30	27	68	37	257	205	236	73	58	21	11	34
28	44	27	65	37	233	202	200	68	53	19	11	29
29	73	27	67	38	---	206	174	63	49	19	11	26
30	65	27	113	37	---	211	152	64	92	18	31	26
31	54	---	297	36	---	202	---	60	---	16	34	---
MEAN	23.9	35.4	71.0	95.9	172	224	249	128	95.9	45.3	46.6	77.4
MAX	73	49	297	456	512	406	1,330	281	388	153	231	226
MIN	14	27	27	36	31	120	108	60	47	16	11	26
IN.	0.11	0.15	0.31	0.42	0.69	0.99	1.06	0.57	0.41	0.20	0.21	0.33

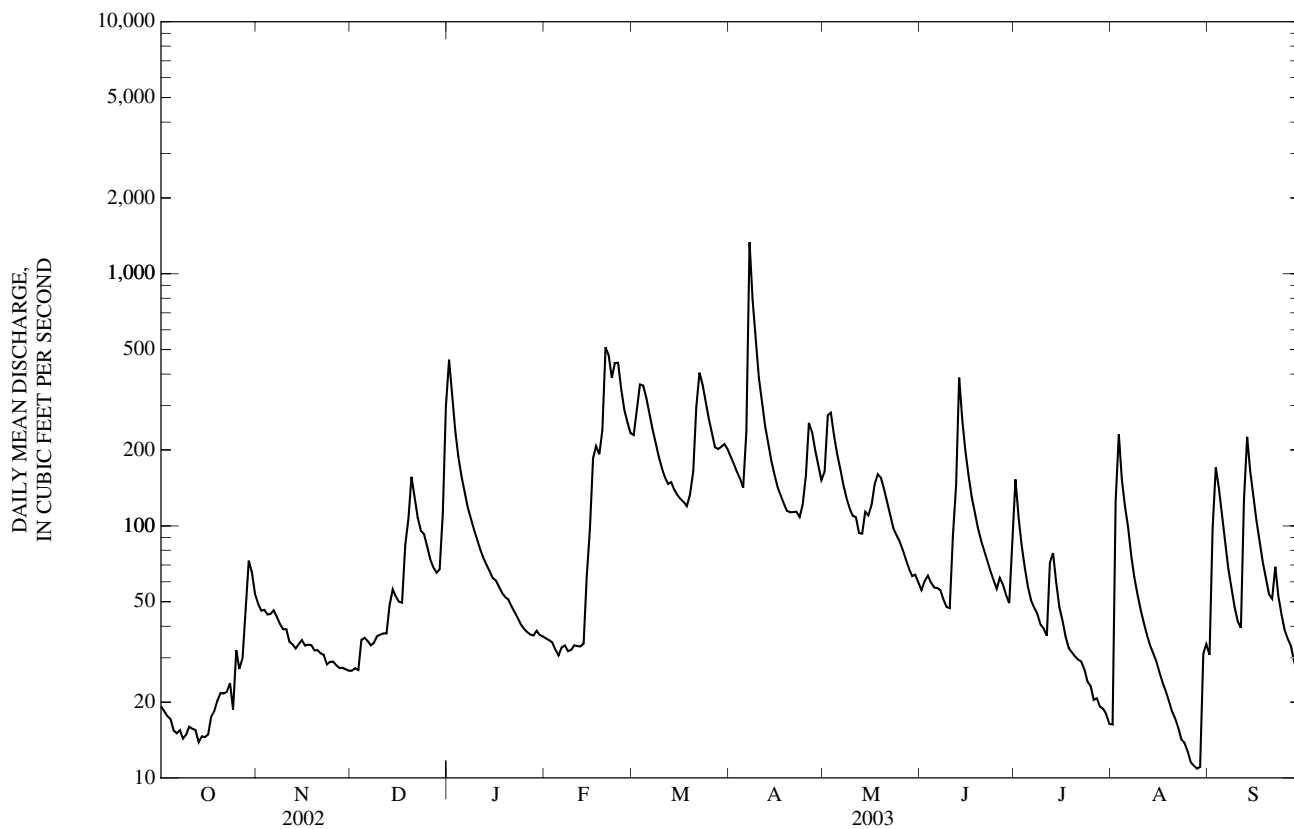
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

[illegible]

07052345 FINLEY CREEK BELOW RIVERDALE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL MEAN	288		105		211	
HIGHEST ANNUAL MEAN					318	
LOWEST ANNUAL MEAN					105	
HIGHEST DAILY MEAN	10,500	May 8	1,330	Apr 7	10,500	May 8, 2002
LOWEST DAILY MEAN	14	Oct 8, 13	11	Aug 27-29	11	Aug 27-29, 2003
ANNUAL SEVEN-DAY MINIMUM	15	Oct 7	12	Aug 23	12	Aug 23, 2003
MAXIMUM PEAK FLOW	---		1,850	Apr 7	21,400	May 8, 2002
MAXIMUM PEAK STAGE	---		5.13	Apr 7	16.31	May 8, 2002
INSTANTANEOUS LOW FLOW	---		9.6	Aug 28, 29	9.6	Aug 28, 29, 2003
ANNUAL RUNOFF (INCHES)	14.97		5.45		10.99	
10 PERCENT EXCEEDS	644		236		433	
50 PERCENT EXCEEDS	84		61		76	
90 PERCENT EXCEEDS	22		20		25	

e Estimated



07052345 FINLEY CREEK BELOW RIVERDALE, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO_3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 21...	1600	Environmental	21	11.7	117	8.0	406	13.6	--	--	--	--
NOV 19...	0845	Environmental	32	9.2	80	7.5	418	8.1	200	62.6	9.44	2.76
DEC 10...	1115	Environmental	37	14.3	114	8.0	403	4.5	--	--	--	--
JAN 28...	0920	Environmental	37	12.8	97	7.6	381	2.5	180	53.5	10.0	2.35
FEB 20...	0900	Environmental	565	11.9	99	7.4	356	6.3	--	--	--	--
MAR 18...	1215	Environmental	117	13.9	142	8.0	337	14.1	--	--	--	--
APR 23...	0840	Environmental	108	7.6	77	7.4	344	14.6	--	--	--	--
MAY 20...	0830	Environmental	141	7.0	74	7.5	364	16.6	180	55.9	9.00	2.22
JUN 12...	1218	Environmental	138	7.4	86	7.9	375	20.3	170	56.1	8.22	2.72
24...	1530	Environmental	61	7.3	94	7.5	392	26.6	--	--	--	--
30...	2005	Environmental	290	7.3	87	7.7	213	22.1	87	28.6	3.87	8.20
JUL 28...	1535	Environmental	20	7.2	95	7.7	413	27.4	190	61.0	9.39	3.21
AUG 20...	1330	Environmental	18	9.5	128	8.0	417	28.5	--	--	--	--
SEP 03...	1005	Environmental	187	6.5	76	7.9	381	21.3	170	59.6	6.23	3.12

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO_3 (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO_3 (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 21...	--	166	165	201	<1	--	--	--	--	<10	0.15	<0.04	2.55
NOV 19...	11.1	165	165	202	<1	16.7	<0.2	8.8	233	<10	0.14	<0.04	1.57
DEC 10...	--	159	160	195	<1	--	--	--	--	<10	0.10	<0.04	1.69
JAN 28...	11.0	149	149	182	<1	13.6	<0.2	6.5	155	<10	0.15	<0.04	2.20
FEB 20...	--	139	139	169	<1	--	--	--	--	<10	0.21	<0.04	1.74
MAR 18...	--	142	143	174	<1	--	--	--	--	<10	0.21	<0.04	1.30
APR 23...	--	148	148	181	<1	--	--	--	--	<10	0.18	<0.04	1.49
MAY 20...	6.26	157	157	192	<1	13.2	<0.2	6.3	212	<10	0.18	<0.04	1.32
JUN 12...	8.24	150	151	184	<1	14.6	<0.2	6.8	225	<10	0.29	<0.04	1.44
24...	--	162	160	196	<1	--	--	--	--	<10	0.22	E.02	1.22
30...	4.17	83	83	102	<1	8.69	<0.2	3.8	138	224	1.8	<0.04	0.96
JUL 28...	11.4	176	176	215	<1	18.6	<0.2	7.4	238	<10	0.33	0.42	1.29
AUG 20...	--	173	173	211	<1	--	--	--	--	<10	0.22	<0.04	1.78
SEP 03...	9.67	174	174	212	<1	17.4	<0.2	7.1	240	<10	0.27	<0.04	1.87

07052345 FINLEY CREEK BELOW RIVERDALE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unftrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unftrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unftrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
OCT 21...	0.010	0.34	0.34	0.34	13k	61	44	--	--	--	--	--	--
NOV 19...	E.005	0.17	0.17	0.19	16k	33	53	<2	13	0.3	E.02	<0.2	<6
DEC 10...	0.010	0.16	0.17	0.17	4k	9k	21k	--	--	--	--	--	--
JAN 28...	0.015	0.11	0.10	0.11	40	45	6k	2	11	E.2	E.03	<0.2	<6
FEB 20...	0.042	<0.02	E.03	0.05	130	360	334	--	--	--	--	--	--
MAR 18...	0.011	0.03	0.06	0.06	7k	110	5k	--	--	--	--	--	--
APR 23...	0.010	0.05	0.07	0.07	18k	60	20	--	--	--	--	--	--
MAY 20...	0.009	0.06	0.07	0.11	27k	156	108	<2	57	E.2	<0.04	<0.2	<6
JUN 12...	0.011	0.11	0.12	0.14	650	1,030k	300	2	117	0.3	E.02	<0.2	<7
24...	0.010	0.13	0.15	0.16	43	36	20	--	--	--	--	--	--
30...	0.018	0.38	0.42	0.79	21,000k@	28,800k@	38,400k@	6	3,090	0.6	E.03	E.2	<7
JUL 28...	E.004	0.07	0.23	0.25	4k	20	85	E1	87	0.5	E.02	<0.2	<7
AUG 20...	0.016	0.18	0.23	0.24	140	133k	140	--	--	--	--	--	--
SEP 03...	0.009	0.17	0.18	0.21	270k	450k	520	103	7	0.5	0.04	E.02n	<6

Date	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lead, water, unftrd recover- able, µg/L (01051)	Mangan- ese, water, ftrd, µg/L (01056)	Mercury water, unftrd recover- able, µg/L (71900)	Selen- ium, water, ftrd, µg/L (01145)	Zinc, water, ftrd, µg/L (01090)	Zinc, water, unftrd recover- able, µg/L (01092)	2,6-Di- ethyl- aniline water ftrd 0.7µ GF ug/L (82660)	CIAT, water, ftrd, µg/L (04040)	Aceto- chlor, water, ftrd, µg/L (49260)	Ala- chlor, water, ftrd, µg/L (46342)	alpha- HCH, water, ftrd, µg/L (34253)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	<10	E.04	<1	3.9	<0.02	<0.5	5	4	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 28...	<10	0.12	<1	4.3	<0.02	E.4	8	8	--	--	--	--	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	<10	E.04	M	7.6	<0.02	<0.5	2	3	--	--	--	--	--
JUN 12...	<8	<0.08	M	12.6	<0.02	<0.5	10	15	<0.006	<0.006	<0.006	<0.004	<0.005
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	22	E.05	10	4.4	0.03	<0.5	3	44	<0.006	<0.006	<0.006	<0.004	<0.005
JUL 28...	E5	E.06	M	26.9	<0.02	<0.5	3	5	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	82	0.47	M	32.0	<0.02	<0.5	5	5	--	--	--	--	--

07052345 FINLEY CREEK BELOW RIVERDALE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible][illegible]

07052345 FINLEY CREEK BELOW RIVERDALE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Pron- amide, water, fltrd 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	<0.010	<0.004	<0.022	<0.011	0.05	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
JUN 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 30...	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
JUL 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
OCT 21...	--	--	--
NOV 19...	--	--	--
DEC 10...	--	--	--
JAN 28...	--	--	--
FEB 20...	--	--	--
MAR 18...	--	--	--
APR 23...	--	--	--
MAY 20...	--	--	--
JUN 12...	<0.005	<0.002	<0.009
JUN 24...	--	--	--
JUN 30...	<0.005	<0.002	<0.009
JUL 28...	--	--	--
AUG 20...	--	--	--
SEP 03...	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

@ -- Holding time exceeded

07052500 JAMES RIVER AT GALENA, MO

LOCATION.--Lat 36°48'19", long 93°27'41", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.24 N., R.23 W., Stone County, Hydrologic Unit 11010002, on downstream side of right pier of first arch span from left end of bridge on old State Highways 13 and 248 in Galena, 0.7 mi upstream from Bailey Creek, and 42.3 mi above mouth.

DRAINAGE AREA.--987 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only, October 1921, published in WSP 1311.

REVISED RECORDS.--WSP 977: 1935(M), 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 921.37 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1927, nonrecording gage at site 500 ft downstream at datum 1.48 ft higher; Dec. 11, 1927, to July 22, 1939, nonrecording gage, and July 23, 1939, to Sept. 30, 1953, water-stage recorder at present site and at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Water-discharge records fair. Slight regulation at low flow by Lake Springfield since 1957 and sewage effluent from Southwest Treatment Plant since 1959, approximately 35 mi upstream. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

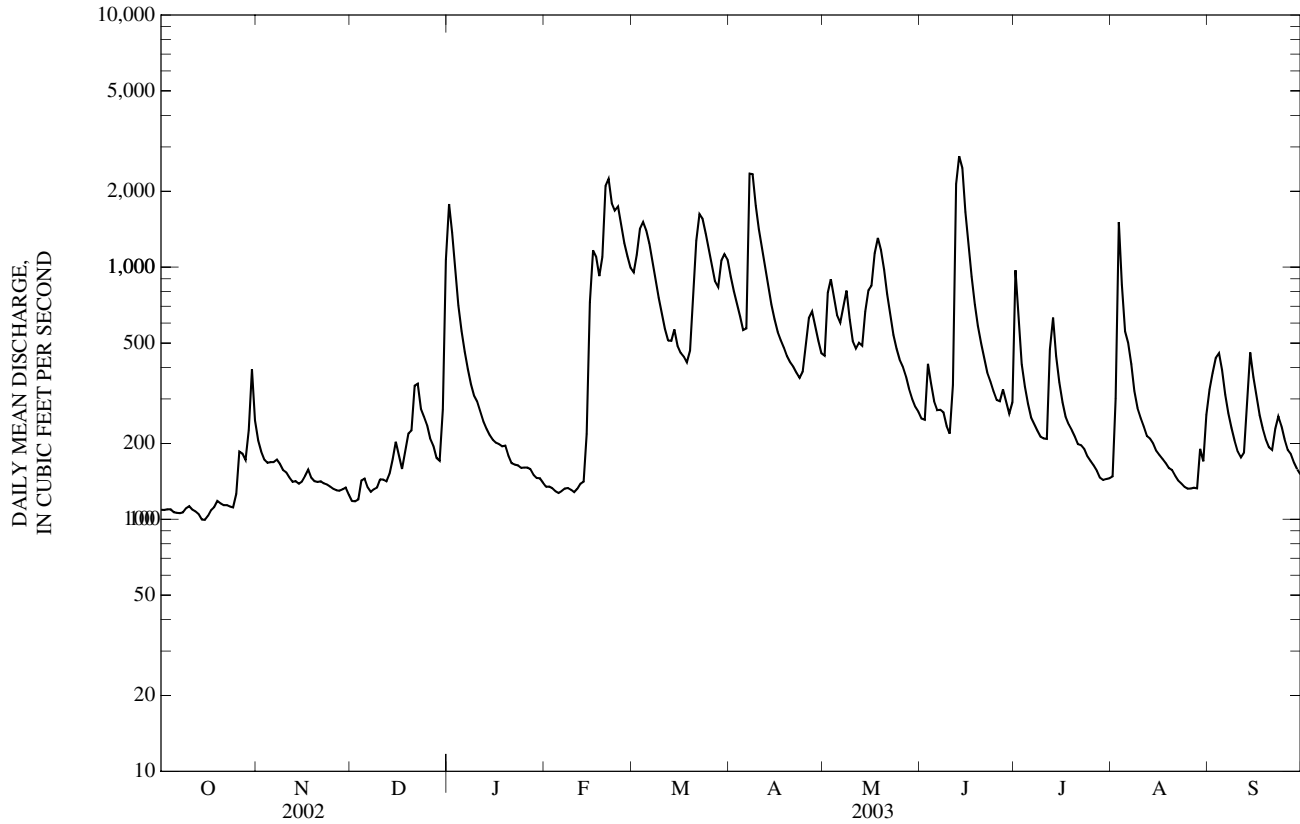
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	205	118	1,780	135	953	921	445	251	973	148	327
2	109	185	118	1,370	135	1,120	803	792	248	650	301	380
3	110	172	120	966	133	1,420	715	895	413	412	1,510	437
4	109	167	142	705	129	1,510	637	756	346	335	850	456
5	107	169	145	558	127	1,400	563	646	293	288	556	391
6	106	169	134	461	129	1,240	571	603	271	253	502	312
7	106	172	128	395	132	1,060	2,350	695	272	238	412	264
8	107	165	132	343	133	897	2,340	808	266	225	323	230
9	111	157	134	310	131	757	1,750	622	234	213	276	206
10	113	153	144	293	128	652	1,420	509	219	209	252	186
11	109	146	144	269	132	569	1,180	475	341	208	234	176
12	107	141	141	244	138	512	991	501	2,140	471	214	184
13	105	142	151	228	141	511	830	488	2,760	630	209	305
14	100	138	174	216	218	566	713	666	2,470	444	200	459
15	100	141	203	206	725	488	622	810	1,660	349	187	366
16	103	148	178	201	1,160	458	554	844	1,220	291	180	310
17	109	157	158	198	1,100	442	514	1,130	916	256	173	259
18	112	146	185	195	921	419	479	1,310	712	238	167	230
19	118	142	219	196	1,100	467	444	1,170	584	226	160	207
20	116	141	225	179	2,100	775	420	976	500	212	157	193
21	114	141	339	167	2,240	1,270	403	780	434	198	149	188
22	114	139	345	165	1,790	1,620	382	642	381	196	142	229
23	112	137	275	164	1,680	1,560	364	540	351	190	139	256
24	111	135	255	160	1,740	1,360	384	474	322	178	135	234
25	126	132	236	160	1,470	1,170	500	430	297	170	132	208
26	185	130	209	160	1,250	1,010	628	403	294	163	132	188
27	182	130	195	158	1,100	878	667	369	327	156	133	182
28	172	132	175	150	996	832	583	329	292	146	133	168
29	226	134	171	146	---	1,060	510	300	263	143	190	158
30	393	125	273	145	---	1,120	455	279	291	144	170	151
31	246	---	1,070	140	---	1,070	---	267	---	145	259	---
MEAN	134	150	214	356	761	941	790	644	646	289	281	261
MAX	393	205	1,070	1,780	2,240	1,620	2,350	1,310	2,760	973	1,510	459
MIN	100	125	118	140	127	419	364	267	219	143	132	151
IN.	0.16	0.17	0.25	0.42	0.80	1.10	0.89	0.75	0.73	0.34	0.33	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2003, BY WATER YEAR (WY)

MEAN	481	852	949	887	1,131	1,518	1,754	1,630	1,154	586	388	416
MAX	2,494	4,407	5,435	3,443	3,485	5,372	8,376	9,549	6,383	4,010	5,159	5,684
(WY)	(1942)	(1973)	(1983)	(1937)	(1966)	(1945)	(1927)	(1943)	(1935)	(1951)	(1927)	(1993)
MIN	58.0	65.3	79.2	68.8	87.4	129	145	179	87.6	46.0	22.6	45.8
(WY)	(1954)	(1954)	(1956)	(1956)	(1954)	(1954)	(1954)	(1936)	(1936)	(1954)	(1954)	(1953)

07052500 JAMES RIVER AT GALENA, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1922-2003	
ANNUAL MEAN	1,045		453		977	
HIGHEST ANNUAL MEAN					2,499	
LOWEST ANNUAL MEAN					119	
HIGHEST DAILY MEAN	29,500	May 9	2,760	Jun 13	57,000	Sep 25, 1993
LOWEST DAILY MEAN	100	Oct 14,15	100	Oct 14,15	11	Aug 22, 1954
ANNUAL SEVEN-DAY MINIMUM	105	Oct 11	105	Oct 11	12	Aug 18, 1954
MAXIMUM PEAK FLOW	---		3,490	Jun 13	73,200	Sep 25, 1993
MAXIMUM PEAK STAGE	---		6.72	Jun 13	33.46	Sep 25, 1993
INSTANTANEOUS LOW FLOW	---		96	Oct 15	10	Sep 20, 1954
ANNUAL RUNOFF (INCHES)	14.38		6.23		13.45	
10 PERCENT EXCEEDS	2,250		1,100		2,130	
50 PERCENT EXCEEDS	369		255		425	
90 PERCENT EXCEEDS	119		131		120	



WHITE RIVER BASIN

07052500 JAMES RIVER AT GALENA, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO_3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 21...	1355	Environmental	115	14.9	150	8.6	563	14.4	--	--	--	--
NOV 18...	1530	Environmental	146	15.9	145	8.7	584	9.8	200	68.2	7.57	4.45
DEC 09...	1320	Environmental	135	17.9	140	8.5	543	4.0	--	--	--	--
JAN 27...	1640	Environmental	160	17.7	130	8.8	481	1.1	190	61.7	7.92	4.22
FEB 19...	1605	Environmental	1,080	13.1	114	8.2	404	8.0	--	--	--	--
FEB 19...	1606	Replicate	--	13.0	113	8.2	403	8.0	--	--	--	--
MAR 17...	1255	Environmental	451	14.3	148	8.5	437	14.6	--	--	--	--
APR 22...	1330	Environmental	382	10.6	114	7.8	435	16.8	--	--	--	--
MAY 19...	1655	Blank	--	--	--	--	--	--	--	0.02	<0.008	<0.16
MAY 19...	1700	Environmental	1,140	8.6	101	8.0	425	21.9	190	63.8	6.90	2.56
JUN 24...	1340	Environmental	318	8.6	114	7.8	459	27.1	--	--	--	--
JUL 29...	1510	Environmental	144	8.8	112	7.7	532	29.4	180	62.4	7.39	4.70
AUG 11...	1515	Environmental	228	9.8	129	7.7	487	27.8	--	--	--	--
SEP 15...	1540	Environmental	335	9.7	116	8.0	442	22.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO_3 (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO_3 (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 21...	--	153	152	167	9	--	--	--	--	<10	0.18	<0.04	3.08
NOV 18...	42.8	171	171	187	11	50.6	0.20	34.1	339	<10	0.19	<0.04	3.71
DEC 09...	--	150	147	157	11	--	--	--	--	<10	0.18	<0.04	4.31
JAN 27...	37.8	150	150	166	8	53.3	0.16	26.8	313	<10	0.24	<0.04	4.37
FEB 19...	--	139	140	171	<1	--	--	--	--	<10	0.20	<0.04	2.39
FEB 19...	--	--	--	--	--	--	--	--	--	<10	0.28	<0.04	2.44
MAR 17...	--	148	148	171	5	--	--	--	--	<10	0.26	<0.04	2.19
APR 22...	--	156	158	193	<1	--	--	--	--	<10	0.30	<0.04	2.47
MAY 19...	<0.09	--	--	--	--	<0.20	<0.20	<0.2	<10	<10	<0.10	<0.04	E.04
MAY 19...	12.8	158	157	192	<1	20.7	<0.20	11.5	251	13	0.29	<0.04	1.98
JUN 24...	--	162	163	199	<1	--	--	--	--	<10	0.29	<0.04	1.84
JUL 29...	37.4	155	155	189	<1	49.0	0.20	26.3	312	<10	0.31	0.36	2.02
AUG 11...	--	159	160	196	<1	--	--	--	--	<10	0.24	<0.04	2.11
SEP 15...	--	149	151	185	<1	--	--	--	--	<10	0.32	<0.04	2.22

07052500 JAMES RIVER AT GALENA, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unftrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unftrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unftrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
OCT 21...	E.006	0.07	0.07	0.09	<1b	3k	3k	--	--	--	--	--	--
NOV 18...	E.004	0.07	0.07	0.07	<1b	3k	1k	<2	5	<0.3	0.05	<0.2	<6
DEC 09...	0.008	0.02	E.03	E.03	3k	1k	5k	--	--	--	--	--	--
JAN 27...	0.030	0.02	E.03	E.02	<1b	<1b	2k	2	8	1.1	0.07	<0.2	<6
FEB 19...	0.015	0.05	0.05	0.07	<10b	20k	40k	--	--	--	--	--	--
19...	0.014	0.05	0.06	0.07	<10b	<10b	50k	--	--	--	--	--	--
MAR 17...	0.018	0.03	0.05	0.06	1k	1k	<1b	--	--	--	--	--	--
APR 22...	0.010	0.07	0.10	0.09	<1b	2k	6k	--	--	--	--	--	--
MAY 19...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	<2	<0.3	<0.04	<0.2	<6
19...	0.008	0.07	0.09	0.12	4k	62k	19k	2	154	0.6	<0.04	<0.2	<6
JUN 24...	E.007	0.08	0.10	0.11	17k	24k	12k	--	--	--	--	--	--
JUL 29...	0.013	<0.02	0.12	0.12	<1b	13k	26	2	92	2.4	0.26	<0.2	<7
AUG 11...	E.004n	E.09nd	0.10	0.12	2k	6k	30	--	--	--	--	--	--
SEP 15...	0.011	0.09	0.10	0.11	<1b	14k	18k	--	--	--	--	--	--

07052500 JAMES RIVER AT GALENA, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
OCT 21...	--	--	--	--	--	--	--	--
NOV 18...	<10	E.07	<1	E.8n	<0.02	3.5	6	6
DEC 09...	--	--	--	--	--	--	--	--
JAN 27...	<10	0.16	<1	<2.0	<0.02	2.8	9	10
FEB 19...	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--
MAY 19...	<10	<0.08	<1	<2.0	<0.02	<0.5	M	<2
MAY 19...	<10	E.07	M	4.2	<0.02	0.5	2	4
JUN 24...	--	--	--	--	--	--	--	--
JUL 29...	<8	0.11	M	8.8	<0.02	5.8	4	4
AUG 11...	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

07052800 FLAT CREEK AT JENKINS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°46'33", long 93°41'09", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.24 N., R.26 W., Barry County, Hydrologic Unit 11010002, 1.0 mi north of U.S. Highway 248 on County Road 1215 in Jenkins.

DRAINAGE AREA.--190 mi².

PERIOD OF RECORD.--October 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 21...	1205	Environmental	30	10.0	101	7.6	313	14.1	--	--	--	--
NOV 18...	1355	Environmental	28	11.7	111	8.0	320	11.0	160	57.4	3.01	1.40
DEC 09...	1250	Environmental	28	14.0	116	7.7	315	6.2	--	--	--	--
JAN 27...	1500	Environmental	25	17.0	134	7.9	296	4.0	150	55.1	3.25	1.26
FEB 19...	1335	Environmental	169	12.5	110	7.6	293	8.3	--	--	--	--
MAR 17...	1435	Environmental	95	14.9	156	8.2	281	14.9	--	--	--	--
APR 22...	1130	Environmental	60	9.9	101	7.5	300	14.7	--	--	--	--
MAY 19...	1450	Environmental	96	10.1	117	7.9	312	20.4	150	55.8	3.47	1.58
JUN 24...	1135	Environmental	29	7.4	91	7.6	327	23.6	--	--	--	--
JUL 29...	1240	Environmental	20	7.3	94	7.6	321	25.9	150	54.3	3.71	1.90
29...	1245	Blank	--	--	--	--	--	--	--	0.04	E.003n	<0.16
AUG 11...	1230	Environmental	22	8.3	104	7.7	334	24.4	--	--	--	--
SEP 15...	1415	Environmental	27	8.8	104	7.4	313	22.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd titr., field, mg/L (00450)	Carbonate, wat unfltrd titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water fltrd, mg/L as N (00631)
OCT 21...	--	136	136	160	<1	--	--	--	--	<10	E.05	<0.04	1.73
NOV 18...	4.38	145	145	177	<1	8.89	<0.2	3.4	187	<10	E.06	<0.04	1.67
DEC 09...	--	128	128	156	<1	--	--	--	--	<10	<0.10	<0.04	1.72
JAN 27...	4.66	125	127	155	<1	8.68	<0.2	4.1	159	<10	E.08	<0.04	1.12
FEB 19...	--	120	120	147	<1	--	--	--	--	<10	0.22	<0.04	2.39
MAR 17...	--	116	116	141	<1	--	--	--	--	<10	0.17	<0.04	2.38
APR 22...	--	129	130	158	<1	--	--	--	--	<10	0.16	<0.04	2.05
MAY 19...	3.77	135	135	164	<1	7.44	<0.2	4.3	190	<10	0.14	<0.04	1.60
JUN 24...	--	139	138	169	<1	--	--	--	--	<10	0.14	<0.04	1.07
JUL 29...	5.02	142	142	174	<1	9.96	<0.2	3.9	175	<10	0.17	<0.04	0.90
29...	<0.10	--	--	--	--	E.11n	<0.2	<0.2	<10	<10	<0.10	E.03	<0.06
AUG 11...	--	146	146	178	<1	--	--	--	--	<10	0.13	<0.04	0.99
SEP 15...	--	144	146	178	<1	--	--	--	--	<10	E.08n	<0.04	0.91

07052900 FLAT CREEK AT JENKINS, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
OCT 21...	<0.008	0.02	E.03	E.04	8k	45	55	--	--	--	--	--	--
NOV 18...	<0.008	E.01	0.04	E.02	44	60	60	<2	11	E.2	E.02	<0.2	<6
DEC 09...	<0.008	E.01	E.02	<0.04	5k	18k	37	--	--	--	--	--	--
JAN 27...	<0.008	<0.02	<0.04	<0.04	<1b	1k	2k	<2	8	E.1	E.03	<0.2	<6
FEB 19...	0.027	<0.02	<0.04	E.02	20k	450	527	--	--	--	--	--	--
MAR 17...	0.010	E.01	E.03	E.04	5k	13k	7k	--	--	--	--	--	--
APR 22...	0.010	E.01	E.03	E.03	<1b	17k	6k	--	--	--	--	--	--
MAY 19...	E.005	0.02	E.02	0.04	7k	52	64	<2	77	E.2	<0.04	E.2	<6
JUN 24...	0.008	E.01	E.03	E.02	42	62	42	--	--	--	--	--	--
JUL 29...	E.006	E.02	E.02	E.04	1k	68k	115	E1n	60	0.3	E.02n	<0.2	<7
AUG 29...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	E1n	<0.3	<0.04	<0.2	<7
SEP 11...	<0.008	<0.18d	<0.04	E.03n	1k	27	85	--	--	--	--	--	--
SEP 15...	E.005n	E.01n	E.03n	E.03n	8k	39	60	--	--	--	--	--	--

Date	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, ftrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, ftrd, µg/L (01145)	Zinc, water, ftrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
OCT 21...	--	--	--	--	--	--	--	--
NOV 18...	<10	<0.08	<1	E1.9b	<0.02	E.2	1	E1
DEC 09...	--	--	--	--	--	--	--	--
JAN 27...	<10	<0.08	<1	E1.1	<0.02	<0.5	M	E1
FEB 19...	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--
MAY 19...	<10	<0.08	6	4.3	<0.02	<0.5	M	3
JUN 24...	--	--	--	--	--	--	--	--
JUL 29...	<8	<0.08	<1	8.5	<0.02	E.4n	2	3
AUG 29...	<8	<0.08	<1	<0.4	<0.02	<0.5	<1	2
SEP 11...	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

07053400 TABLE ROCK LAKE NEAR BRANSON, MO

LOCATION.--Lat 36°35'46", long 93°18'35", in NW $\frac{1}{4}$ sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010001, at dam on White River, 3.0 mi upstream from Fall Creek, and 6.1 mi southwest of Branson.

DRAINAGE AREA.--4,020 mi².

PERIOD OF RECORD.--September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to July 18, 1958, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by combination concrete-gravity and embankment type dam. Storage began on Sept. 9, 1956. Storage for purpose of filling to power pool level at elevation 881.0 ft and capacity 1,520,500 ac-ft began Nov. 24, 1958, and was reached Dec. 19, 1959. Capacity is 3,567,500 ac-ft at top of spillway gates, elevation 933.0 ft. Capacity is 3,462,000 ac-ft at top of flood control pool, elevation 931.0 ft. Capacity between elevations 915.0 ft and 931.0 ft is reserved for flood control, 760,000 ac-ft. The capacity at the lowest outlet, elevation 721.96 ft, is 3,530 ac-ft. Lake is used for flood control, power, and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,542,000 ac-ft, May 10, 1961, elevation, 932.52 ft; minimum, since initial filling to bottom of power pool level, 1,536,000 ac-ft, Feb. 8, 1965, elevation, 881.54 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,788,000 ac-ft, May 26, 27 and June 13, elevation, 916.97 ft; minimum, 2,447,000 ac-ft, Sept. 29, elevation, 908.85 ft.

ELEVATION, IN FEET WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	915.07	914.94	912.45	912.57	910.26	910.89	912.49	913.67	916.79	916.60	913.23	910.42
2	915.11	914.92	912.43	912.64	910.25	911.06	912.58	913.72	916.77	916.53	913.24	910.43
3	915.24	914.91	912.39	912.65	910.25	911.21	912.65	913.77	916.69	916.45	913.26	910.43
4	915.33	914.89	912.41	912.73	910.18	911.25	912.68	913.86	916.61	916.33	913.29	910.33
5	915.30	914.85	912.34	912.74	910.12	911.22	912.55	913.88	916.68	916.25	913.19	910.32
6	915.31	914.68	912.34	912.84	910.10	911.12	912.47	913.96	916.72	916.19	913.17	910.32
7	915.28	914.53	912.18	912.80	910.02	911.02	912.59	913.98	916.75	916.07	913.03	910.31
8	915.29	914.48	912.14	912.83	909.92	911.07	912.58	914.03	916.78	916.02	912.91	910.19
9	915.23	914.47	912.15	912.86	909.91	911.09	912.63	914.02	916.78	915.92	912.90	910.17
10	915.22	914.48	912.14	912.82	909.84	910.89	912.70	914.05	916.76	915.75	912.91	910.11
11	915.22	914.45	912.12	912.74	909.70	910.75	912.73	914.07	916.86	915.67	912.69	910.10
12	915.20	914.45	912.17	912.70	909.55	910.70	912.80	914.09	916.91	915.53	912.51	910.13
13	915.20	914.39	912.20	912.72	909.41	910.81	912.88	914.20	916.97	915.43	912.31	910.12
14	915.27	914.35	912.20	912.67	909.42	910.88	912.87	914.26	916.84	915.28	912.14	910.00
15	915.26	914.23	912.23	912.55	909.60	910.95	912.92	914.35	916.81	915.15	912.04	909.84
16	915.21	914.01	912.25	912.43	909.65	911.00	912.90	914.64	916.81	914.92	911.98	909.68
17	915.21	913.85	912.26	912.22	909.67	911.03	912.90	915.32	916.79	914.75	911.78	909.53
18	915.22	913.74	912.30	911.94	909.52	910.99	912.90	915.65	916.76	914.63	911.57	909.47
19	915.26	913.56	912.34	911.78	909.67	911.16	912.96	915.89	916.75	914.62	911.47	909.44
20	915.25	913.46	912.22	911.55	909.79	911.45	913.02	916.28	916.78	914.58	911.38	909.39
21	915.25	913.38	912.27	911.36	909.96	911.69	913.00	916.69	916.81	914.44	911.26	909.42
22	915.23	913.33	912.26	911.19	910.15	911.93	913.00	916.67	916.79	914.45	911.09	909.34
23	915.20	913.29	912.41	911.24	910.51	912.17	913.02	916.56	916.69	914.40	910.95	909.23
24	915.22	913.28	912.42	911.07	910.79	912.34	913.12	916.78	916.55	914.25	910.81	909.11
25	915.27	913.14	912.41	910.99	910.78	912.45	913.19	916.96	916.52	914.20	910.70	908.99
26	915.22	912.95	912.31	910.96	910.77	912.54	913.28	916.97	916.53	914.11	910.59	908.91
27	915.23	912.69	912.21	910.71	910.82	912.65	913.35	916.97	916.52	914.09	910.42	908.91
28	915.37	912.58	912.17	910.63	910.76	912.61	913.44	916.91	916.50	913.92	910.27	908.89
29	915.23	912.52	912.17	910.38	---	912.56	913.47	916.85	916.50	913.80	910.09	908.85
30	915.15	912.47	912.29	910.29	---	912.52	913.54	916.77	916.61	913.68	910.11	908.86
31	914.96	---	912.38	910.27	---	912.43	---	916.76	---	913.41	910.12	---
MEAN	915.23	913.91	912.28	911.93	910.05	911.50	912.91	915.24	916.72	915.08	911.85	909.71
MAX	915.37	914.94	912.45	912.86	910.82	912.65	913.54	916.97	916.97	916.60	913.29	910.43
MIN	914.96	912.47	912.12	910.27	909.41	910.70	912.47	913.67	916.50	913.41	910.09	908.85
(-)	2,700,000	2,595,000	2,591,000	2,504,000	2,524,000	2,593,000	2,640,000	2,778,000	2,772,000	2,634,000	2,498,000	2,447,000
(=)	-4,000	-105,000	-4,000	-87,000	+20,000	+69,000	+47,000	+138,000	-6,000	-138,000	-136,000	-51,000

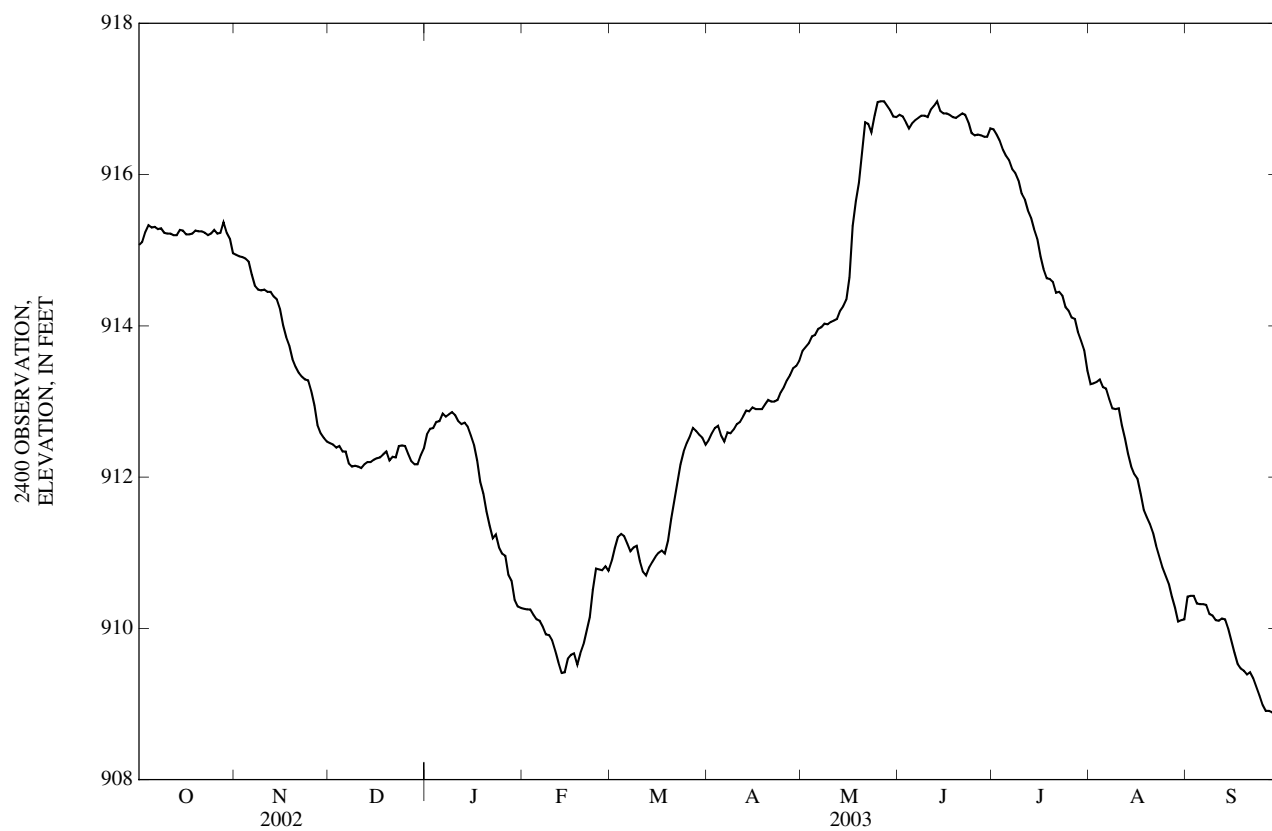
CAL YR 2002.... -99,000

WTR YR 2003....-257,000

(-) Contents, in acre-feet, at the end of the month.

(=) Change in contents, in acre-feet.

07053400 TABLE ROCK LAKE NEAR BRANSON, MO—Continued



07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO

WATER-QUALITY RECORDS

LOCATION.--Lat 36°35'42", long 93°18'32", sec.22, T.22 N., R.22 W., Taney County, Hydrologic Unit 11010003, on left bank in southwest corner of U.S. Army Corps of Engineers' carpentry building, 600 ft below Table Rock Dam.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1987 to current year. (See remarks).

DISSOLVED OXYGEN: June 1987 to current year. (See remarks).

INSTRUMENTATION.--Water-quality monitor since June 1987.

REMARKS.--The number of missing days exceeds 20 percent of the year. The monitor was not operated from Jan. 7 to June 17.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.7	11.2	11.8	12.5	11.9	12.0	13.3	11.8	12.4	10.0	9.4	9.6
2	---	---	---	12.4	11.5	12.0	13.1	11.9	12.3	9.6	9.4	9.5
3	---	---	---	12.4	11.4	11.9	12.2	11.7	12.0	9.6	9.3	9.4
4	---	---	---	12.5	11.8	12.3	12.0	10.6	11.5	10.5	9.1	9.6
5	---	---	---	12.5	11.6	12.3	12.4	11.1	11.7	10.3	9.0	9.4
6	---	---	---	12.7	11.6	12.4	12.2	11.1	11.5	9.7	8.9	9.0
7	12.5	11.5	12.0	12.7	11.7	12.2	11.8	11.2	11.4	---	---	---
8	12.7	11.0	11.4	12.7	11.9	11.9	11.7	11.0	11.4	---	---	---
9	12.3	11.1	11.6	12.6	12.2	12.4	11.6	10.9	11.2	---	---	---
10	12.2	11.2	11.5	12.7	11.7	12.1	11.8	10.8	11.2	---	---	---
11	12.2	11.2	11.5	12.8	11.3	12.2	11.6	10.6	11.1	---	---	---
12	12.6	11.1	11.5	12.9	11.2	12.3	11.5	10.9	11.1	---	---	---
13	12.4	10.7	11.4	12.9	11.5	12.4	11.4	10.8	11.0	---	---	---
14	12.3	10.6	11.6	12.8	11.9	12.5	11.9	10.3	10.9	---	---	---
15	12.8	10.7	11.8	12.7	11.8	12.5	12.0	10.2	10.8	---	---	---
16	12.3	10.9	11.8	12.8	12.5	12.7	11.5	10.3	10.8	---	---	---
17	12.2	11.1	11.8	13.0	12.3	12.7	11.6	10.8	11.0	---	---	---
18	12.3	11.2	11.7	13.2	12.4	12.8	11.7	10.8	11.1	---	---	---
19	12.1	11.4	11.6	13.1	12.2	12.8	11.4	10.6	10.9	---	---	---
20	12.1	11.2	11.6	13.3	12.4	12.8	11.6	10.3	10.8	---	---	---
21	12.2	11.1	11.7	13.0	11.8	12.7	11.5	10.0	10.7	---	---	---
22	12.3	11.3	11.9	13.0	11.9	12.7	11.5	9.7	10.4	---	---	---
23	12.4	11.4	11.9	13.2	11.7	12.4	10.5	9.9	10.2	---	---	---
24	12.4	11.2	11.9	13.2	11.7	12.4	10.3	9.2	9.9	---	---	---
25	12.3	11.4	11.9	12.7	11.6	12.4	10.7	9.1	9.8	---	---	---
26	12.2	11.5	11.7	12.8	12.0	12.5	10.2	9.4	9.8	---	---	---
27	12.1	11.3	11.5	12.7	11.9	12.4	9.9	9.7	9.8	---	---	---
28	12.3	11.3	11.9	12.9	12.0	12.4	10.1	9.6	9.8	---	---	---
29	12.3	11.5	12.0	12.9	12.0	12.5	10.5	9.2	9.8	---	---	---
30	12.8	11.9	12.3	13.3	11.9	12.5	10.0	9.6	9.8	---	---	---
31	12.5	12.3	12.4	---	---	---	10.3	9.6	9.7	---	---	---
MONTH	12.8	10.6	11.8	13.3	11.2	12.4	13.3	9.1	10.8	10.5	8.9	9.4

07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO—Continued

TEMPERATURE, WATER, DEGREES CELSIUS,—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	8.6	6.9	7.2	8.6	7.9	8.1	9.5	8.4	8.8
2	---	---	---	7.9	6.9	7.2	8.8	7.6	8.0	9.3	8.4	8.8
3	---	---	---	7.9	6.9	7.2	10.0	7.6	8.0	9.8	8.5	9.0
4	---	---	---	7.3	7.1	7.2	8.2	7.6	7.9	10.3	8.3	9.0
5	---	---	---	8.0	7.0	7.2	8.3	7.8	8.0	9.8	8.3	8.8
6	---	---	---	7.8	7.0	7.2	8.8	7.8	8.0	10.7	8.3	9.0
7	---	---	---	8.3	7.1	7.4	9.0	7.8	8.1	9.9	8.3	8.8
8	---	---	---	8.5	7.0	7.5	8.8	7.7	8.1	9.6	8.3	8.6
9	---	---	---	8.4	7.1	7.4	9.1	8.0	8.3	10.1	8.5	9.0
10	---	---	---	8.5	7.2	7.5	9.8	7.7	8.2	10.0	8.4	8.9
11	---	---	---	7.5	6.9	7.3	8.7	7.6	8.1	10.2	8.5	8.9
12	---	---	---	7.9	7.2	7.4	8.4	7.7	8.1	9.3	8.5	8.8
13	---	---	---	7.5	7.3	7.4	8.5	7.8	8.1	9.8	8.6	9.1
14	---	---	---	7.7	7.2	7.4	9.0	7.8	8.2	10.2	9.2	9.4
15	---	---	---	8.0	7.2	7.5	9.0	7.9	8.3	10.0	8.4	9.1
16	---	---	---	8.4	7.4	7.6	8.8	7.9	8.2	9.6	8.5	9.2
17	---	---	---	10.6	7.2	7.7	8.7	7.9	8.4	9.9	8.6	9.2
18	7.7	6.7	7.0	---	---	---	8.8	8.3	8.5	10.0	8.7	9.3
19	8.1	6.8	7.2	---	---	---	9.4	7.9	8.5	10.1	9.0	9.2
20	8.3	6.9	7.2	---	---	---	9.1	7.9	8.5	10.8	8.5	9.2
21	8.6	6.7	7.2	---	---	---	8.9	8.4	8.7	10.1	8.6	8.9
22	8.6	6.8	7.3	---	---	---	9.0	8.3	8.8	10.3	8.6	9.4
23	7.2	6.8	7.0	---	---	---	9.6	8.2	8.7	9.8	8.7	9.3
24	8.1	6.9	7.2	---	---	---	9.3	8.2	8.7	10.6	8.7	9.3
25	7.9	6.9	7.1	---	---	---	9.4	8.2	8.7	9.7	8.9	9.4
26	8.2	6.9	7.3	---	---	---	9.3	8.3	8.8	9.9	9.4	9.5
27	9.1	6.7	7.3	---	---	---	9.2	8.3	8.9	10.0	8.8	9.3
28	8.2	6.8	7.2	---	---	---	9.3	8.4	8.9	10.2	8.7	9.3
29	8.8	6.8	7.3	---	---	---	9.3	8.4	8.9	10.2	8.4	9.0
30	7.9	6.8	7.1	8.0	7.7	7.9	10.2	8.5	8.8	9.7	8.7	9.0
31	---	---	---	8.3	7.8	8.0	9.8	8.4	8.7	---	---	---
MONTH	9.1	6.7	7.2	10.6	6.9	7.4	10.2	7.6	8.4	10.8	8.3	9.1

07053450 WHITE RIVER BELOW TABLE ROCK DAM NEAR BRANSON, MO—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.6	5.3	6.0	6.4	2.8	4.3	7.8	5.5	6.8	7.5	4.9	6.2
2	---	---	---	---	---	---	8.0	5.3	6.5	7.5	5.6	6.6
3	---	---	---	---	---	---	8.8	5.3	6.6	7.7	6.2	7.0
4	---	---	---	---	---	---	12.4	5.7	7.0	7.7	5.2	6.4
5	---	---	---	6.4	3.8	5.0	9.4	5.8	7.4	7.1	5.0	5.9
6	---	---	---	6.4	3.0	4.3	8.8	5.7	7.1	7.2	5.2	6.5
7	6.2	3.4	4.9	6.5	2.8	6.5	8.7	6.1	7.7	---	---	---
8	5.6	1.5	3.0	---	---	---	9.2	5.0	6.9	---	---	---
9	8.1	1.2	4.3	---	---	---	8.1	5.6	6.6	---	---	---
10	6.9	0.9	3.4	5.4	1.7	3.3	9.3	5.6	7.1	---	---	---
11	5.9	0.7	3.0	7.1	1.6	2.9	9.0	5.6	7.3	---	---	---
12	6.3	0.8	3.1	7.5	2.3	4.8	9.6	6.3	7.5	---	---	---
13	7.3	1.7	3.3	8.0	1.7	4.8	9.0	6.3	7.7	---	---	---
14	7.2	1.9	4.5	7.7	2.3	5.6	8.7	6.4	7.4	---	---	---
15	7.8	2.3	5.4	7.2	2.0	4.5	7.9	5.3	6.3	---	---	---
16	8.3	2.9	5.3	7.8	3.0	5.3	9.1	5.4	7.4	---	---	---
17	9.6	2.0	5.9	6.7	2.7	5.5	9.7	6.3	7.9	---	---	---
18	7.4	2.4	4.8	7.9	2.5	5.6	9.0	6.3	7.8	---	---	---
19	8.2	2.2	4.3	8.6	0.9	5.8	9.2	6.2	7.3	---	---	---
20	8.7	1.9	4.9	8.2	3.8	5.6	9.6	5.5	7.2	---	---	---
21	8.0	1.9	5.0	8.3	0.6	4.7	7.0	5.0	5.8	---	---	---
22	9.7	1.6	5.0	7.4	0.4	5.3	6.8	4.9	5.7	---	---	---
23	10.2	1.9	5.2	6.8	0.1	1.4	7.2	4.6	5.7	---	---	---
24	9.5	1.9	5.2	6.7	1.0	3.3	7.2	5.1	5.9	---	---	---
25	7.6	1.5	4.6	7.6	0.1	3.7	7.6	5.3	6.2	---	---	---
26	6.6	2.3	3.7	7.3	0.1	4.9	7.7	5.2	6.5	---	---	---
27	6.3	1.5	3.1	7.4	3.2	5.8	7.4	5.9	6.8	---	---	---
28	8.6	1.3	4.6	7.7	3.2	5.5	7.6	6.1	7.2	---	---	---
29	8.3	1.2	5.3	7.7	2.8	5.2	7.4	5.2	6.4	---	---	---
30	8.3	3.0	6.6	8.7	4.1	6.3	7.5	5.6	6.6	---	---	---
31	7.3	3.3	5.0	---	---	---	7.5	6.0	6.8	---	---	---
MONTH	10.2	0.7	4.6	8.7	0.1	4.8	12.4	4.6	6.9	7.7	4.9	6.4
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	11.6	7.7	9.1	10.8	6.9	6.5	11.6	4.7	6.9
2	---	---	---	10.8	8.1	9.1	11.9	6.4	8.3	12.6	4.4	7.2
3	---	---	---	11.6	7.8	8.9	10.7	6.3	8.4	12.5	5.1	7.8
4	---	---	---	10.1	8.2	9.2	12.9	6.5	8.2	12.8	4.1	7.3
5	---	---	---	11.2	8.0	9.3	12.6	6.4	8.5	11.5	5.0	8.0
6	---	---	---	10.6	7.9	9.1	11.1	6.4	8.6	11.8	6.0	8.9
7	---	---	---	11.2	7.7	8.9	11.8	7.1	8.8	10.4	5.0	8.3
8	---	---	---	11.7	7.8	9.4	12.0	6.3	8.1	5.0	4.0	4.7
9	---	---	---	10.8	7.8	8.7	12.9	7.3	10.6	8.5	4.5	4.5
10	---	---	---	12.3	7.6	9.6	13.2	6.2	8.8	9.7	3.6	5.5
11	---	---	---	12.1	7.7	8.8	12.2	6.3	7.5	9.5	3.8	5.8
12	---	---	---	10.8	7.4	8.8	12.1	5.3	7.4	9.0	3.4	5.7
13	---	---	---	10.0	7.6	8.6	11.6	5.7	7.1	9.1	4.0	6.4
14	---	---	---	10.6	7.5	8.6	13.3	6.0	7.9	9.3	5.1	7.3
15	---	---	---	10.0	7.4	8.3	12.7	6.1	7.6	10.7	4.1	6.7
16	---	---	---	9.8	7.3	8.3	11.1	6.1	7.3	9.4	4.0	6.7
17	10.6	7.8	8.4	12.2	7.3	8.2	11.1	5.9	7.6	9.7	4.2	6.8
18	11.2	7.2	8.6	12.1	6.6	9.3	11.5	6.7	8.6	9.3	4.2	6.7
19	11.5	7.8	9.3	10.9	5.7	8.9	11.5	6.6	7.8	10.2	4.5	6.9
20	11.2	7.9	9.2	10.5	5.8	8.8	11.7	6.6	7.3	9.5	4.4	6.6
21	11.3	7.6	9.3	10.0	7.0	7.7	11.6	6.6	8.5	9.9	3.2	5.7
22	11.2	7.7	9.1	12.1	6.4	8.9	11.5	6.2	7.9	9.8	2.5	6.3
23	10.3	8.0	8.9	12.4	6.0	9.2	11.7	10.6	7.6	9.5	4.0	7.0
24	12.1	8.0	9.6	12.4	5.9	8.6	---	---	---	9.7	3.8	6.7
25	11.6	8.0	9.1	11.8	6.0	8.7	---	---	---	9.5	4.8	7.5
26	11.8	8.0	9.7	11.9	5.7	8.3	11.7	5.8	7.7	9.6	4.6	7.5
27	10.7	7.8	9.0	11.3	5.6	8.8	10.9	5.7	7.0	10.0	2.8	5.8
28	10.8	7.6	8.8	11.9	6.4	8.3	8.6	5.3	6.9	10.0	3.6	6.2
29	11.6	7.8	9.4	11.9	7.3	8.9	10.9	5.3	7.0	9.7	3.7	5.8
30	11.4	7.7	9.0	13.6	6.6	8.1	11.4	4.8	7.4	9.0	2.2	4.7
31	---	---	---	9.0	6.6	7.2	11.2	4.8	7.4	---	---	---
MONTH	12.1	7.2	9.1	13.6	5.6	8.7	13.3	4.8	7.9	12.8	2.2	6.6

WHITE RIVER BASIN

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS

WATER-QUALITY RECORDS

LOCATION.--Lat 36°36'33", long 93°14'04", in sec.4, T.22 N., R.21 W., Taney County, Hydrologic Unit 11010003, on the right bank in the College of the Ozarks water intake pump house and 4.75 mi below Table Rock Dam.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1984 to current year. (See remarks).

DISSOLVED OXYGEN: May 1984 to current year. (See remarks).

INSTRUMENTATION.--Water-quality monitor since May 1984.

REMARKS.--The number of missing days exceeds 20 percent of the year. The monitor was not operated from Jan. 7 to June 17.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.8	11.9	12.3	12.5	11.9	12.2	11.9	10.9	11.4	9.3	8.6	9.0
2	13.7	12.0	12.4	12.1	11.2	11.7	12.4	10.6	11.5	9.3	8.2	8.8
3	13.6	12.0	12.4	11.8	11.4	11.6	11.8	11.0	11.6	9.5	8.4	9.0
4	14.6	12.3	12.8	12.5	11.8	12.0	11.4	9.8	11.0	9.0	8.2	8.8
5	13.3	11.9	12.5	12.6	12.0	12.3	11.6	10.4	11.1	9.2	8.4	8.8
6	13.7	12.6	12.9	13.0	11.7	12.3	11.3	10.1	10.9	8.8	8.4	8.6
7	14.5	12.4	13.4	13.2	11.6	12.5	11.4	10.6	11.0	---	---	---
8	12.6	12.0	12.2	13.4	11.6	12.6	11.3	10.5	10.9	---	---	---
9	12.3	11.9	12.1	13.5	12.8	13.1	11.1	10.5	10.9	---	---	---
10	12.8	12.0	12.2	13.5	12.8	13.2	11.2	10.1	10.7	---	---	---
11	12.9	12.0	12.4	12.8	12.0	12.4	10.8	10.0	10.5	---	---	---
12	13.5	12.8	13.0	12.9	11.4	12.3	10.8	10.3	10.6	---	---	---
13	12.9	11.9	12.6	13.1	11.7	11.8	10.8	10.2	10.5	---	---	---
14	12.9	11.1	11.3	12.7	12.0	12.5	11.1	10.1	10.5	---	---	---
15	13.1	11.0	11.9	12.6	12.2	12.4	10.8	9.7	10.1	---	---	---
16	12.4	11.2	12.0	12.6	12.1	12.4	11.1	9.3	10.3	---	---	---
17	13.1	11.5	12.3	13.0	12.1	12.6	11.5	10.5	10.9	---	---	---
18	12.4	11.8	12.1	13.0	12.2	12.6	11.4	10.8	11.0	---	---	---
19	12.4	12.0	12.2	13.3	12.3	12.8	10.9	10.5	10.7	---	---	---
20	12.0	11.8	11.9	13.2	12.0	12.6	10.7	9.7	10.4	---	---	---
21	13.1	11.7	12.0	12.9	11.8	12.5	10.4	9.8	10.1	---	---	---
22	12.9	11.9	12.3	13.1	11.9	12.6	9.9	9.2	9.6	---	---	---
23	12.8	11.8	12.3	12.6	11.8	12.2	9.2	8.3	8.8	---	---	---
24	13.0	11.7	12.2	12.4	11.6	11.9	8.7	7.8	8.3	---	---	---
25	12.4	12.1	12.3	12.5	11.1	12.0	8.6	7.7	8.3	---	---	---
26	12.5	12.1	12.2	12.6	11.8	12.3	9.5	7.3	8.7	---	---	---
27	12.1	11.6	11.9	12.6	11.4	12.1	10.0	9.1	9.6	---	---	---
28	12.3	11.2	11.9	12.7	11.3	12.1	9.7	8.9	9.3	---	---	---
29	12.3	12.1	12.2	12.5	11.3	12.2	9.5	8.9	9.2	---	---	---
30	12.4	12.1	12.3	12.2	11.1	11.9	9.9	9.1	9.6	---	---	---
31	12.3	12.0	12.2	---	---	---	9.9	9.3	9.5	---	---	---
MONTH	14.6	11.0	12.3	13.5	11.1	12.3	12.4	7.3	10.2	9.5	8.2	8.8

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS,—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	10.7	7.5	8.3	9.0	8.1	8.4	13.0	11.5	12.4
2	---	---	---	9.8	7.5	8.0	12.5	8.3	9.0	15.3	9.8	12.8
3	---	---	---	9.7	7.4	7.8	12.0	8.5	9.4	11.7	9.7	10.1
4	---	---	---	8.5	7.4	7.8	9.5	8.4	9.0	11.9	9.4	10.2
5	---	---	---	9.3	7.4	7.9	9.6	8.2	8.7	12.0	9.3	10.3
6	---	---	---	10.4	7.4	8.2	10.4	8.2	8.7	11.2	9.4	10.2
7	---	---	---	10.4	7.5	8.0	10.5	8.2	8.7	12.3	11.1	11.7
8	---	---	---	9.9	7.6	8.0	10.3	8.2	8.6	13.3	9.4	10.7
9	---	---	---	10.0	7.6	8.1	10.6	8.2	9.1	11.8	9.2	10.2
10	---	---	---	9.8	7.6	8.1	13.8	10.4	11.8	14.2	9.6	11.7
11	---	---	---	9.5	7.6	8.0	13.9	8.4	11.2	11.7	9.6	10.2
12	---	---	---	9.4	7.6	8.1	9.6	8.4	8.6	10.7	9.7	10.1
13	---	---	---	8.7	7.6	7.9	9.4	8.5	8.7	11.8	9.8	10.5
14	---	---	---	9.2	7.6	8.0	9.6	8.6	8.9	11.1	9.5	10.1
15	---	---	---	9.1	7.6	8.1	10.5	8.7	8.9	11.1	9.3	9.8
16	---	---	---	8.6	7.8	8.1	10.7	8.7	9.1	11.2	9.2	9.6
17	---	---	---	8.7	7.9	8.1	9.7	8.7	9.0	11.3	9.4	9.8
18	9.5	7.3	7.8	9.3	8.0	8.2	9.3	8.6	8.8	11.8	9.3	9.8
19	10.0	7.3	8.0	12.4	8.1	9.7	9.5	8.7	9.0	12.0	9.7	10.4
20	11.1	7.3	8.3	12.0	8.2	10.0	9.7	8.8	9.1	11.7	9.5	10.4
21	11.0	8.3	9.3	12.1	8.1	9.8	9.9	8.7	9.0	12.0	11.4	11.6
22	14.9	10.7	12.2	10.5	8.0	8.5	9.7	8.9	9.3	13.0	9.8	11.6
23	12.5	7.3	8.7	11.8	8.0	9.9	10.0	9.0	9.3	11.2	9.6	10.0
24	9.3	7.2	7.6	12.1	8.0	10.3	10.1	9.0	9.4	11.6	9.5	9.8
25	8.8	7.5	7.8	10.2	7.9	8.3	10.6	9.0	9.4	11.3	9.5	10
26	9.2	7.5	8.2	10.7	7.9	8.5	10.4	9.1	9.4	11.6	9.5	10.1
27	12.9	9.2	10.6	12.3	8.0	9.0	10.1	9.3	9.4	11.5	10.1	10.6
28	14.3	9.1	11.8	8.9	8.1	8.4	10.5	9.3	9.5	12.6	10.5	11.4
29	11.0	8.6	9.6	9.3	8.2	8.5	10.3	9.3	9.5	12.6	10.4	11.4
30	12.3	7.5	10.1	9.0	8.0	8.2	11.3	9.3	10.1	10.4	9.9	10.2
31	---	---	---	9.2	8.0	8.3	12.2	11.0	11.4	---	---	---
MONTH	14.9	7.2	9.1	12.4	7.4	8.5	13.9	8.1	9.3	15.3	9.2	10.6

07053600 LAKE TANEYCOMO AT COLLEGE OF THE OZARKS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.23	3.57	4.28	6.73	3.85	4.91	7.34	6.49	6.86	10.6	9.55	10.2
2	6.69	3.87	4.38	5.86	3.62	4.31	7.72	5.30	6.42	10.7	9.39	9.97
3	6.34	3.81	4.79	6.13	5.01	5.83	7.83	5.15	6.00	11.5	9.39	10.3
4	7.98	5.05	5.99	6.38	4.11	5.04	8.15	5.30	6.15	10.8	9.71	10.0
5	7.32	5.99	6.52	5.88	3.97	4.53	7.95	5.45	6.00	11.1	9.88	10.3
6	7.20	6.23	6.69	6.53	3.74	4.99	7.50	5.68	6.33	11.2	9.68	10.7
7	8.31	6.38	7.46	6.28	3.88	4.71	8.07	5.60	6.84	---	---	---
8	6.38	4.96	5.82	6.62	4.04	4.84	7.89	5.81	6.74	---	---	---
9	7.64	4.49	5.45	5.49	4.25	4.98	7.44	5.81	6.35	---	---	---
10	6.60	4.03	4.82	5.79	4.69	5.38	8.89	5.51	6.40	---	---	---
11	4.95	3.62	4.38	5.95	4.49	5.03	8.38	5.97	6.75	---	---	---
12	6.44	4.67	5.60	6.50	4.30	4.75	7.94	6.11	6.72	---	---	---
13	7.00	5.22	6.00	6.68	4.44	5.07	8.26	7.01	7.72	---	---	---
14	7.85	5.32	6.33	5.52	4.22	4.79	8.02	7.06	7.63	---	---	---
15	8.68	4.62	5.54	5.83	4.16	4.87	8.20	7.14	7.68	---	---	---
16	6.41	4.11	5.04	7.46	4.94	5.21	9.01	7.15	7.72	---	---	---
17	8.55	3.97	5.27	7.11	5.37	5.92	8.85	7.17	7.66	---	---	---
18	6.99	4.83	5.82	6.72	5.27	5.73	8.51	7.25	7.60	---	---	---
19	6.24	3.87	4.77	7.25	5.15	6.43	8.27	6.90	7.42	---	---	---
20	6.20	5.40	5.75	7.63	4.98	5.82	9.60	7.49	8.22	---	---	---
21	7.67	4.61	6.10	7.57	5.39	5.88	8.99	8.28	8.58	---	---	---
22	6.65	3.94	4.54	7.92	5.41	6.57	9.45	8.56	8.96	---	---	---
23	6.97	3.63	4.49	7.06	5.41	6.46	10.1	8.59	9.05	---	---	---
24	7.22	3.64	4.68	7.33	6.26	6.85	10.2	9.14	9.68	---	---	---
25	6.49	3.08	4.31	7.55	5.83	6.54	10.2	9.47	9.88	---	---	---
26	5.14	3.76	4.24	7.14	5.17	5.98	10.9	9.86	10.5	---	---	---
27	5.81	3.86	4.62	6.98	4.92	5.67	10.8	8.79	9.30	---	---	---
28	5.91	3.97	4.91	6.54	4.89	5.78	11.6	9.75	10.5	---	---	---
29	6.37	3.90	4.69	6.74	5.69	6.25	11.2	10.4	10.8	---	---	---
30	6.22	3.92	4.79	7.78	6.30	6.72	10.8	8.98	9.79	---	---	---
31	6.02	3.92	4.76	---	---	---	10.6	8.65	9.32	---	---	---
MONTH	8.68	3.08	5.25	7.92	3.62	5.53	11.6	5.15	7.92	11.5	9.39	10.2
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	11.2	9.57	10.2	8.90	7.17	7.98	10.3	7.57	9.02
2	---	---	---	10.6	8.74	9.50	8.75	7.51	8.07	10.1	7.32	9.00
3	---	---	---	11.3	8.38	9.10	10.6	7.27	8.48	9.62	6.40	7.51
4	---	---	---	10.3	8.49	9.71	9.48	8.40	8.97	8.82	5.65	6.61
5	---	---	---	11.1	9.02	9.93	9.79	7.26	8.29	8.93	4.84	6.40
6	---	---	---	11.7	7.72	9.57	10.0	8.23	8.16	10.0	6.54	8.57
7	---	---	---	10.9	8.32	9.25	10.3	7.81	8.82	10.2	8.14	9.27
8	---	---	---	10.6	7.54	9.01	10.0	6.47	8.03	9.49	6.47	7.35
9	---	---	---	10.1	6.92	8.35	9.31	6.67	8.10	8.25	6.59	7.47
10	---	---	---	10.6	7.98	8.94	11.4	7.67	9.17	10.2	4.84	8.12
11	---	---	---	11.1	7.75	8.57	11.5	6.40	9.21	8.32	5.00	6.28
12	---	---	---	10.7	8.24	9.41	9.77	6.73	7.50	7.06	5.10	5.88
13	---	---	---	10.2	8.64	9.48	9.27	6.33	7.09	8.15	5.06	6.82
14	---	---	---	11.2	8.06	9.12	9.42	6.29	7.16	9.30	5.47	7.43
15	---	---	---	10.2	8.00	8.85	9.45	6.42	7.27	9.12	5.01	6.19
16	---	---	---	10.2	7.88	8.65	9.24	6.30	7.02	9.17	4.36	6.57
17	11.7	10.1	10.5	9.54	7.61	8.22	9.70	6.17	6.99	8.40	5.22	6.34
18	11.6	9.64	10.3	9.43	7.54	8.17	9.43	6.38	7.65	8.99	6.02	7.07
19	11.9	9.10	10.0	11.0	7.64	8.89	9.22	6.32	7.15	8.98	5.50	6.95
20	12.5	9.00	9.93	10.7	8.60	9.76	9.12	5.83	6.67	8.04	5.49	6.94
21	11.0	9.47	10.3	11.0	7.47	9.10	9.45	6.13	7.90	9.22	6.93	7.88
22	12.6	10.4	11.7	10.9	7.58	8.73	9.24	6.88	7.63	9.83	4.76	7.29
23	11.8	8.99	10.0	11.0	8.01	9.59	9.62	5.88	7.21	8.19	5.17	6.58
24	11.9	8.80	9.68	11.2	7.23	9.59	9.50	5.67	7.26	8.53	4.33	6.41
25	10.9	0.00	9.29	9.54	7.17	7.97	10.7	6.26	7.79	8.96	4.69	6.63
26	9.95	8.33	9.21	9.63	7.12	7.64	9.73	5.83	6.70	8.37	4.88	6.62
27	12.6	9.49	11.0	11.2	6.64	7.89	8.35	5.52	6.28	7.97	3.11	6.19
28	12.5	10.3	11.8	9.58	7.10	8.34	9.45	5.33	6.20	9.32	5.16	7.83
29	10.9	9.52	10.1	9.27	6.96	7.48	7.68	5.26	6.39	9.96	7.62	8.71
30	11.6	9.23	10.0	10.2	7.18	8.30	9.42	6.29	7.56	7.89	5.53	6.84
31	---	---	---	9.80	6.79	8.04	9.45	6.57	8.50	---	---	---
MONTH	12.6	0.00	10.3	11.7	6.64	8.88	11.5	5.26	7.65	10.3	3.11	7.23

07053700 LAKE TANEYCOMO AT BRANSON, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°38'09", long 93°12'52", in SE ¼ SE ¼ NW ¼ sec.4, T.22 N., R.21 W., Taney County, Hydrologic Unit 11010003, 1,000 ft downstream of Turkey Creek, at bridge on Business Route 65 in Branson.

PERIOD OF RECORD.--July 1977 to June 1991 and November 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf µS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)
NOV 14...	1530	Environmental	4.8	47	7.4	225	12.5	110	35.0	5.49	1.78
MAR 26...	0845	Environmental	10.1	94	7.6	275	11.2	--	--	--	--
APR 22...	1530	Environmental	12.7	121	7.9	257	12.2	--	--	--	--
APR 22...	1531	Replicate	12.0	123	7.8	258	12.1	--	--	--	--
MAY 29...	0915	Environmental	10.0	85	7.1	249	7.1	110	34.3	5.74	1.94
JUN 18...	0909	Blank	--	--	--	--	--	--	--	--	--
JUN 18...	0910	Environmental	9.3	86	7.6	275	10.8	--	--	--	--
JUL 16...	1545	Environmental	9.2	82	7.3	247	9.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicar-bonate, wat unf incrm. titr., field, mg/L (00450)	Carbon-ate, wat unf incrm. titr., field, mg/L (00447)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 14...	3.86	112	111	135	<1	5.64	<0.2	6.8	132	<10	0.23	<0.04	0.40
MAR 26...	--	122	125	153	<1	--	--	--	--	<10	0.19	<0.04	0.30
APR 22...	--	108	107	130	<1	--	--	--	--	<10	0.26	<0.04	0.34
APR 22...	--	--	--	--	--	--	--	--	--	--	0.29	<0.04	0.34
MAY 29...	5.44	104	104	127	<1	8.29	<0.2	7.6	136	<10	0.10	<0.04	0.09
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	105	106	129	<1	--	--	--	--	<10	0.23	<0.04	0.44
JUL 16...	--	106	106	130	<1	--	--	--	--	<10	0.18	<0.04	0.49

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, col/ 100 mL (31633)	Fecal coli-form, M-FC col/ 100 mL (31625)	Fecal strep-tococci KF MF, col/ 100 mL (31673)	Alum-inum, water, fltrd, µg/L (01106)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 14...	E.006	<0.02	E.02	E.03	30	30	13k	<2	9	0.5	<0.04	<0.2	<6
MAR 26...	<0.008	<0.02	<0.04	<0.04	3k	3k	5k	--	--	--	--	--	--
APR 22...	<0.008	<0.02	E.02	<0.04	<1b	2k	3k	--	--	--	--	--	--
APR 22...	<0.008	<0.02	E.02	<0.04	<1b	5k	5k	--	--	--	--	--	--
MAY 29...	<0.008	<0.02	<0.04	<0.04	13k	55	38	M	8	0.4	<0.04	<0.2	<7
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	<0.008	<0.02	<0.04	E.02	790k	1,050k	435	--	--	--	--	--	--
JUL 16...	<0.008	<0.02	<0.04	<0.04	<1b	7k	4k	--	--	--	--	--	--

07053700 LAKE TANEYCOMO AT BRANSON, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

[illegible]

07053700 LAKE TANEYCOMO AT BRANSON, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µ GF (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF (82683)	Phorate water fltrd 0.7µ GF (82664)	Prome- ton, water, fltrd, µg/L (04037)	Pron- amide, water, fltrd 0.7µ GF (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF (82679)	Propar- gite, water, fltrd 0.7µ GF (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF (82670)	Terba- cil, water, fltrd 0.7µ GF (82665)	Terbu- fos, water, fltrd 0.7µ GF (82675)
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
18...	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
JUL 16...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
NOV 14...	--	--	--
MAR 26...	--	--	--
APR 22...	--	--	--
22...	--	--	--
MAY 29...	--	--	--
JUN 18...	<0.005	<0.002	<0.009
18...	<0.005	<0.002	<0.009
JUL 16...	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

07053810 BULL CREEK NEAR WALNUT SHADE, MO

LOCATION.--Lat 36°43'05", long 93°12'24", in NW ¼ SE ¼ SE ¼ sec.4, T.23 N., R.21 W., Taney County, Hydrologic Unit 11010003, on downstream side of State Highway F bridge pier, 1.3 miles southwest of Walnut Shade and 3.9 miles upstream from Lake Taneycomo.

DRAINAGE AREA.--191 mi².

PERIOD OF RECORD.--October 1994 to September 1996, October 1997 to current year. Stage only station July 1991 to September 1994, and October 1996 to September 1997.

GAGE.--Water-stage recorder. Datum of gage is 712.45 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	7.5	e4.1	401	16	236	132	156	21	11	2.4	117
2	2.2	e6.9	e4.0	236	16	308	120	263	28	50	110	647
3	2.2	e6.4	e4.0	161	16	300	108	209	33	44	90	256
4	2.2	e5.9	e7.0	120	15	257	100	164	32	35	50	128
5	2.3	e5.5	e6.6	97	14	211	89	138	28	29	42	80
6	2.0	e6.2	e6.1	77	16	167	113	113	27	23	43	54
7	2.2	e7.0	e5.7	64	16	136	382	95	24	19	33	38
8	2.7	e6.7	e5.3	57	16	114	335	81	21	17	25	29
9	2.9	e6.3	e4.9	48	16	96	256	70	19	15	20	23
10	3.1	e6.0	e4.6	43	16	81	205	62	17	14	16	19
11	3.3	e5.7	e4.4	39	17	71	170	55	19	14	13	16
12	3.2	e5.5	e4.3	35	20	65	145	48	25	21	11	42
13	3.2	e5.3	23	33	25	68	122	50	27	18	9.6	145
14	2.8	e6.2	36	30	511	80	107	116	26	16	9.2	135
15	2.7	e5.9	34	28	479	80	94	119	25	17	8.0	81
16	3.2	e5.7	30	27	277	75	85	249	32	14	6.8	49
17	3.7	e5.5	28	29	188	70	79	408	29	12	5.9	32
18	3.9	e5.3	49	31	146	65	73	261	25	11	5.1	24
19	4.8	e5.1	68	28	570	250	69	175	22	9.7	4.2	17
20	4.8	e4.9	50	22	690	780	92	125	20	8.2	4.2	15
21	4.5	e4.8	37	21	420	940	121	91	18	7.4	3.9	15
22	4.5	e4.7	26	e20	677	613	107	71	17	7.8	3.8	23
23	4.5	e4.6	22	19	739	408	94	59	15	7.5	3.5	19
24	3.8	e4.5	21	21	466	300	384	52	13	5.7	3.2	16
25	3.5	e4.4	18	22	304	235	405	48	11	4.9	2.0	13
26	3.5	e4.3	15	20	231	189	282	43	14	4.0	2.0	11
27	3.5	e4.5	14	19	191	159	208	38	12	3.4	2.4	13
28	3.8	e4.7	20	17	177	150	165	33	11	2.9	2.6	12
29	15	e4.4	61	17	---	176	134	29	9.5	2.5	2.8	12
30	12	e4.2	460	16	---	164	115	26	8.8	2.3	3.8	11
31	9.0	---	984	16	---	149	---	24	---	2.3	4.6	---
MEAN	4.12	5.49	66.4	58.5	224	226	163	112	21.0	14.5	17.5	69.7
MAX	15	7.5	984	401	739	940	405	408	33	50	110	647
MIN	2.0	4.2	4.0	16	14	65	69	24	8.8	2.3	2.0	11
IN.	0.02	0.03	0.40	0.35	1.22	1.36	0.95	0.68	0.12	0.09	0.11	0.41

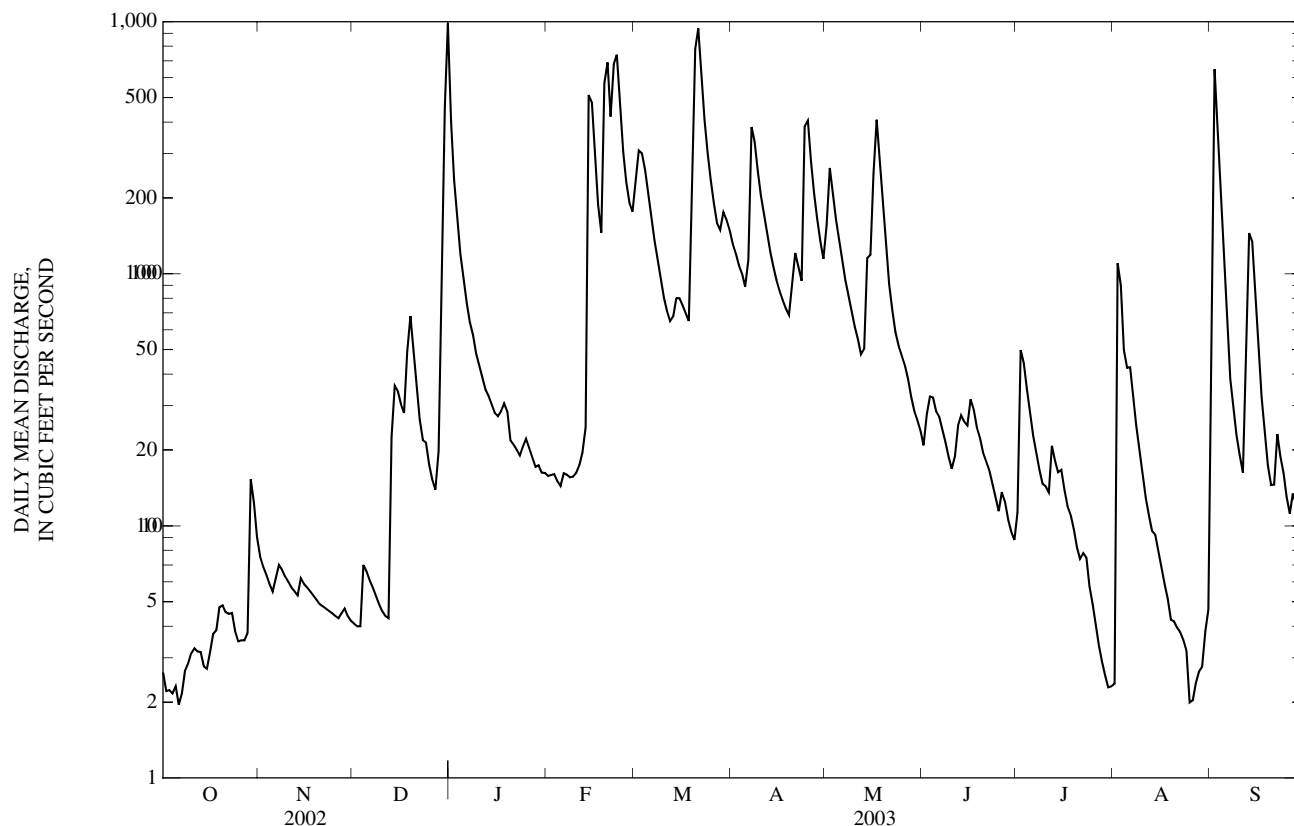
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	22.9	94.0	155	249	306	333	384	356	150	66.4	15.4	32.8
MAX	72.3	402	501	721	704	834	809	1,253	594	323	45.8	165
(WY)	(1999)	(1995)	(2002)	(1995)	(2001)	(1998)	(1995)	(2002)	(1995)	(2000)	(2000)	(1996)
MIN	4.12	5.49	66.4	58.5	44.0	68.0	63.9	31.4	21.0	2.31	3.02	4.77
(WY)	(2003)	(2003)	(2003)	(2003)	(1996)	(1996)	(2000)	(2000)	(2003)	(1992)	(1996)	(1995)

07053810 BULL CREEK NEAR WALNUT SHADE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	240		80.9		177	
HIGHEST ANNUAL MEAN					330	
LOWEST ANNUAL MEAN					80.9	
HIGHEST DAILY MEAN	12,200	May 8	984	Dec 31	12,200	May 8, 2002
LOWEST DAILY MEAN	2.0	Oct 6	2.0	Oct 6, Aug 25,26	1.6	Sep 14, 1996
ANNUAL SEVEN-DAY MINIMUM	2.2	Oct 1	2.2	Oct 1	1.8	Aug 17, 1992
MAXIMUM PEAK FLOW	---		1,340	Dec 31	Unknown	May 8, 2002
MAXIMUM PEAK STAGE	---		5.03	Dec 31	14.41	May 8, 2002
INSTANTANEOUS LOW FLOW	---		1.9	Oct 1-4,6,7,Aug 25,26	1.6	Sep 13, 1996
ANNUAL RUNOFF (INCHES)	17.09		5.75		12.61	
10 PERCENT EXCEEDS	554		235		400	
50 PERCENT EXCEEDS	35		22		50	
90 PERCENT EXCEEDS	4.0		3.8		5.3	

e Estimated



WHITE RIVER BASIN

07053900 SWAN CREEK NEAR SWAN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°47'02", long 93°05'04", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.3, T.24 N., R.20 W., Taney County, Hydrologic Unit 11010003, 0.8 mi south of Swan, 4.0 mi northwest of Highway 76 on County Highway AA.

DRAINAGE AREA.--148 mi².

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV												
14...	1230	Environmental	16	8.5	77	8.1	433	9.6	240	52.1	26.9	1.16
14...	1231	Blank	--	--	--	--	--	--	--	E.01n	<0.008	<0.10
JAN												
22...	0915	Environmental	15	13.0	98	8.5	413	3.2	--	--	--	--
22...	0916	Blank	--	--	--	--	--	--	--	--	--	--
MAR												
25...	1405	Environmental	150	10.8	105	8.1	366	12.8	--	--	--	--
25...	1415	Blank	--	--	--	--	--	--	--	--	--	--
MAY												
28...	1430	Blank	--	--	--	--	--	--	--	0.01	E.004	<0.16
28...	1445	Environmental	27	8.6	100	7.9	423	21.1	210	46.3	23.6	1.26
JUL												
16...	1345	Blank	--	--	--	--	--	--	--	--	--	--
16...	1350	Environmental	6.4	7.5	100	7.5	460	29.4	--	--	--	--
SEP												
08...	1210	Blank	--	--	--	--	--	--	--	--	--	--
08...	1211	Environmental	24	8.6	104	7.9	428	22.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
NOV													
14...	1.83	213	214	262	<1	3.86	<0.2	5.7	239	<10	E.07	<0.04	0.14
14...	<0.09	--	--	--	--	<0.20	<0.2	<0.2	<10	<10	<0.10	<0.04	<0.06
JAN													
22...	--	223	225	266	4	--	--	--	--	<10	E.05	<0.04	0.32
22...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06
MAR													
25...	--	173	173	211	<1	--	--	--	--	<10	E.08	<0.04	0.26
25...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06
MAY													
28...	<0.10	--	--	--	--	<0.20	<0.2	<0.2	<10	<10	<0.10	<0.04	<0.06
28...	2.02	210	210	257	<1	5.16	<0.2	5.8	231	<10	0.18	<0.04	0.41
JUL													
16...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06
16...	--	234	234	285	<1	--	--	--	--	<10	0.17	<0.04	0.11
SEP													
08...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06
08...	--	225	225	275	<1	--	--	--	--	<10	E.08n	<0.04	0.15

07053900 SWAN CREEK NEAR SWAN, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
NOV													
14...	<0.008	<0.02	<0.04	<0.04	10k	18k	26	<2	8	<0.3	<0.04	<0.2	<6
14...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	<2	<0.3	<0.04	<0.2	<6
JAN													
22...	<0.008	<0.02	<0.04	<0.04	4k	1k	9k	--	--	--	--	--	--
22...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
MAR													
25...	<0.008	<0.02	<0.04	<0.04	3k	6k	12k	--	--	--	--	--	--
25...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
MAY													
28...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	E1	<0.3	<0.04	<0.2	<7
28...	<0.008	<0.02	<0.04	<0.04	2k	17k	19k	<2	12	E.2	<0.04	<0.2	<7
JUL													
16...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
16...	<0.008	<0.02	<0.04	<0.04	3k	15k	29	--	--	--	--	--	--
SEP													
08...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
08...	<0.008	E.10nd	<0.04	<0.04	34	68k	67	--	--	--	--	--	--

Date	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, ftrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, ftrd, µg/L (01145)	Zinc, water, ftrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV								
14...	<10	<0.08	<1	E2.1b	<0.02	<0.5	<1	E1
14...	<10	<0.08	<1	<2.0	<0.02	<0.5	<1	<2
JAN								
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
MAR								
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
MAY								
28...	<8	<0.08	<1	<0.4	<0.02	<0.5	<1	<2
28...	<8	<0.08	<1	6.4	<0.02	<0.5	M	<2
JUL								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
SEP								
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

07054080 BEAVER CREEK AT BRADLEYVILLE, MO

LOCATION.--Lat 36°46'47", long 92°54'25", in NE ¼ SW ¼ NW ¼ sec.11, T.24 N., R.18 W., Taney County, Hydrologic Unit 11010003, on downstream side of right bridge pier on State Highway 76 and 0.5 mi east of Bradleyville.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 803.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, and discharges above 3,000 ft³/s, which are fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	36	30	444	44	294	161	283	58	40	33	68
2	29	36	30	312	44	322	152	367	68	38	50	177
3	29	37	30	240	43	330	145	291	72	37	51	113
4	29	36	37	192	42	313	139	238	66	36	43	63
5	27	36	36	160	41	289	132	207	60	35	39	48
6	28	36	32	135	43	260	161	181	63	34	36	41
7	28	36	31	116	43	233	894	157	64	33	34	37
8	28	36	31	105	41	210	413	140	60	32	32	35
9	29	36	32	96	42	187	310	128	55	31	31	34
10	30	36	32	87	42	169	258	120	53	e30	30	32
11	29	35	32	80	42	158	218	112	58	e29	29	31
12	29	35	32	75	43	150	190	102	218	36	28	35
13	28	34	41	71	43	153	170	102	631	36	27	41
14	27	34	45	68	164	147	153	111	237	33	30	36
15	27	35	44	65	322	143	140	105	157	e30	29	33
16	27	35	43	65	298	140	132	115	133	e30	27	30
17	29	35	44	61	240	135	127	150	109	e29	26	29
18	29	34	47	60	200	132	120	169	93	e28	26	28
19	32	34	55	58	344	206	116	146	82	e27	26	27
20	31	33	54	57	510	352	122	128	73	e26	25	26
21	29	33	61	55	416	464	120	111	65	25	26	27
22	29	32	61	53	424	422	121	100	59	25	24	28
23	28	32	60	50	477	361	114	91	55	25	23	28
24	28	32	64	52	418	319	336	85	52	24	22	27
25	32	31	59	51	349	288	512	81	51	23	22	25
26	32	31	53	47	314	259	390	78	52	23	22	25
27	31	31	50	46	294	233	311	74	49	23	24	25
28	32	31	49	45	280	220	264	69	45	25	24	23
29	52	30	52	49	---	202	348	65	42	29	23	23
30	47	30	137	46	---	182	334	63	41	32	25	23
31	40	---	570	45	---	170	---	60	---	34	27	---
MEAN	30.8	33.9	63.7	99.5	200	240	237	136	97.4	30.3	29.5	40.6
MAX	52	37	570	444	510	464	894	367	631	40	51	177
MIN	27	30	30	45	41	132	114	60	41	23	22	23

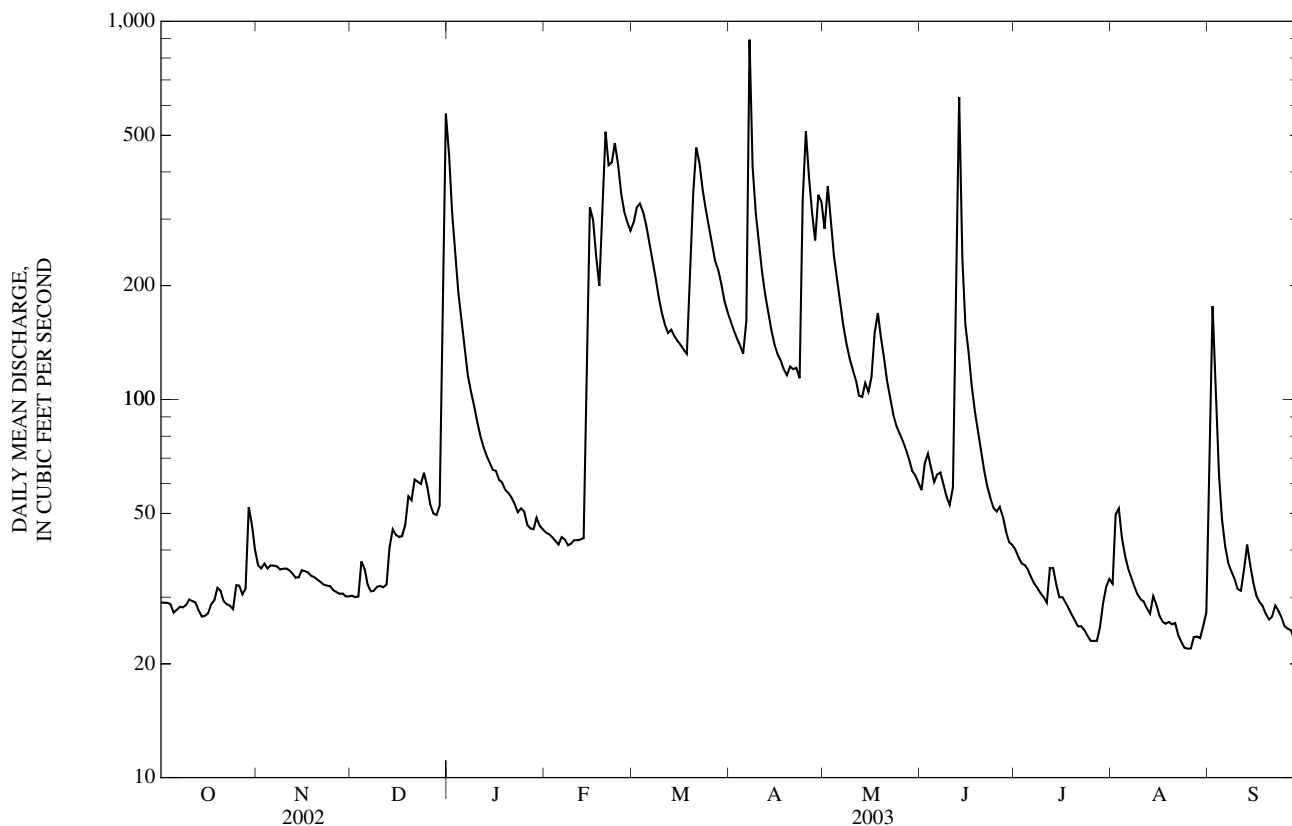
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	53.1	239	217	300	500	507	504	498	184	75.3	61.6	77.7
MAX	134	1,074	725	919	991	1,349	935	1,540	593	168	168	309
(WY)	(1999)	(1997)	(2002)	(1995)	(1999)	(1998)	(1995)	(2002)	(1995)	(1995)	(1995)	(1996)
MIN	25.9	28.4	62.7	56.8	105	142	70.9	37.8	41.1	30.3	22.5	22.5
(WY)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2003)	(2001)	(2001)

07054080 BEAVER CREEK AT BRADLEYVILLE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL MEAN	341		102		267	
HIGHEST ANNUAL MEAN					464	
LOWEST ANNUAL MEAN					62.5	
HIGHEST DAILY MEAN	11,800	May 8	894	Apr 7	11,800	May 8, 2002
LOWEST DAILY MEAN	27	Oct 5,14-16	22	Aug 24-26	15	Sep 7, 2001
ANNUAL SEVEN-DAY MINIMUM	28	Oct 11	23	Aug 23	17	Sep 1, 2001
MAXIMUM PEAK FLOW	---		1,880	Apr 7	20,800	May 8, 2002
MAXIMUM PEAK STAGE	---		6.49	Apr 7	17.92	May 8, 2002
INSTANTANEOUS LOW FLOW	---		21	Aug 23-27	14	Sep 7, 2001
10 PERCENT EXCEEDS	654		288		600	
50 PERCENT EXCEEDS	84		47		93	
90 PERCENT EXCEEDS	31		27		29	

e Estimated



WHITE RIVER BASIN

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO

LOCATION.--Lat 36°37'22", long 92°14'53", in NE ¼ SE ¼ sec.35, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on right bank 3.2 mi downstream from Spring Creek, 3.5 mi northeast of Tecumseh.

DRAINAGE AREA.--561 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.67 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to May 12, 1945, nonrecording gage at same site and datum 0.22 ft lower.

REMARKS.--No estimated daily discharges. Water-discharge records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

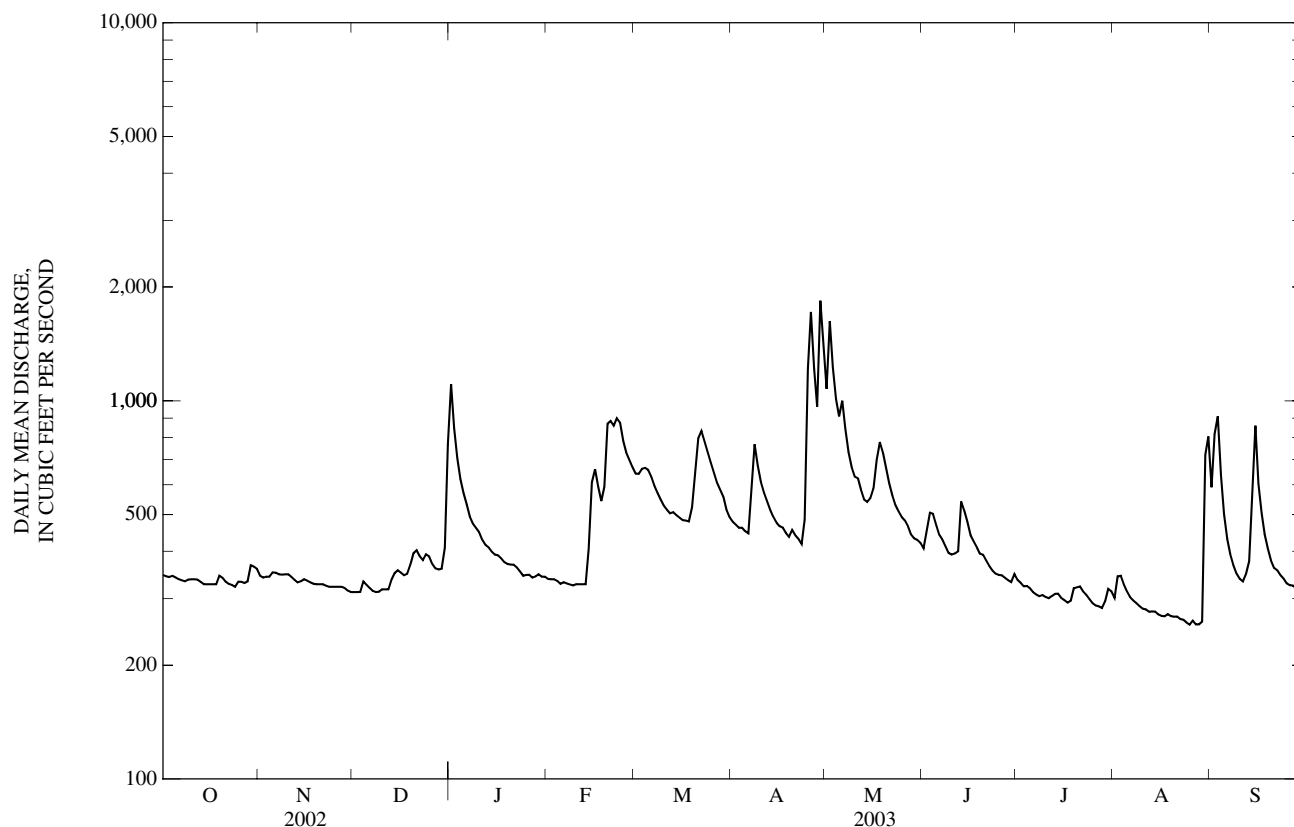
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346	345	312	1,110	338	642	479	1,080	407	336	301	591
2	343	341	312	848	337	641	470	1,620	454	330	343	817
3	342	343	313	705	337	661	462	1,230	506	323	345	909
4	344	343	333	622	334	665	462	1,010	503	324	327	635
5	341	352	326	570	328	657	452	910	470	320	313	502
6	337	351	320	532	331	629	446	1,000	443	312	303	431
7	335	348	314	495	329	597	581	844	430	307	296	393
8	333	347	312	473	327	571	767	732	413	304	292	367
9	337	348	313	461	325	549	673	667	396	306	286	349
10	337	348	317	449	327	528	612	631	392	303	282	338
11	337	343	317	429	327	515	571	624	395	300	281	333
12	337	336	317	416	327	504	543	582	400	305	277	348
13	332	331	337	409	328	508	515	548	542	309	277	377
14	327	333	351	399	406	499	493	540	512	309	277	563
15	327	338	356	392	609	491	476	553	479	301	272	860
16	327	335	351	391	659	484	466	586	441	297	270	604
17	327	331	346	383	595	483	462	698	425	293	269	505
18	327	328	349	375	543	480	447	778	410	296	273	444
19	345	327	369	370	593	523	437	730	395	320	270	407
20	340	327	395	369	870	641	456	663	392	321	269	378
21	333	327	402	369	885	796	441	606	378	323	269	362
22	328	324	388	363	860	833	432	562	366	313	265	356
23	326	322	379	354	900	782	418	531	356	307	264	346
24	322	322	393	345	876	733	485	510	349	299	259	339
25	333	322	388	346	784	688	1,220	493	347	292	256	329
26	332	322	371	347	730	647	1,720	483	346	288	262	325
27	330	322	360	341	698	609	1,220	466	340	286	256	325
28	333	320	358	343	668	583	965	443	335	283	256	320
29	367	315	360	348	---	558	1,840	433	332	295	261	310
30	364	312	409	343	---	516	1,370	429	348	318	720	307
31	360	---	768	343	---	492	---	421	---	314	805	---
MEAN	337	333	362	453	535	597	679	690	410	308	313	449
MAX	367	352	768	1,110	900	833	1,840	1,620	542	336	805	909
MIN	322	312	312	341	325	480	418	421	332	283	256	307
IN.	0.69	0.66	0.75	0.93	0.99	1.23	1.35	1.42	0.82	0.63	0.64	0.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2003, BY WATER YEAR (WY)

MEAN	408	643	697	715	856	1,065	1,242	1,142	752	533	412	423
MAX	1,040	2,751	2,842	2,322	2,872	2,473	3,623	3,044	2,515	1,632	889	2,093
(WY)	(1985)	(1986)	(1983)	(1950)	(1985)	(1945)	(1945)	(2002)	(1945)	(1951)	(1958)	(1993)
MIN	214	224	223	201	261	290	359	343	276	239	204	193
(WY)	(1957)	(1955)	(1956)	(1956)	(1964)	(1981)	(2000)	(2001)	(1954)	(1954)	(1954)	(1954)

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1945 - 2003	
ANNUAL MEAN	909		455		739	
HIGHEST ANNUAL MEAN					1,555	
LOWEST ANNUAL MEAN					299	
HIGHEST DAILY MEAN	22,500	May 8	1,840	Apr 29	45,100	Nov 19, 1985
LOWEST DAILY MEAN	307	Jan 22	256	Aug 25,27,28	187	Sep 15, 1954
ANNUAL SEVEN-DAY MINIMUM	315	Nov 27	259	Aug 23	188	Sep 12, 1954
MAXIMUM PEAK FLOW	---		3,410	Apr 29	133,000	Nov 19, 1985
MAXIMUM PEAK STAGE	---		5.47	Apr 29	28.10	Nov 19, 1985
INSTANTANEOUS LOW FLOW	---		251	Aug 24,25,27,28	187	Sep 14, 1954
ANNUAL RUNOFF (INCHES)	22.00		11.01		17.91	
10 PERCENT EXCEEDS	1,790		711		1,330	
50 PERCENT EXCEEDS	484		360		495	
90 PERCENT EXCEEDS	327		303		292	



WHITE RIVER BASIN

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to June 1972, October 1978 to September 1979, November 1983 to June 1987, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous	Dis-	Dis-	pH,	Specif.	Temper-	Hard-	Calcium	Magnes-	Potas-	
			aneous	solved	solved	water,	conduct-		ness,		ium,	sium,	
			dis-	oxygen,	oxygen,	unfltrd	ance,		water,		water,	water,	
			charge,	mg/L	mg/L	field,	wat unf		unfltrd		fltrd,	fltrd,	
			cfs			std	units		mg/L as		mg/L	mg/L	
			(00061)	(00300)	(00301)	units	(00095)	(00010)	CaCO ₃	(00915)	(00925)	(00935)	
NOV 13...	1515	Environmental	332	12.1	115	8.3	390	12.4	220	46.2	25.9	1.24	
JAN 21...	1530	Environmental	369	14.0	127	8.7	386	9.9	--	--	--	--	
MAR 25...	0845	Environmental	686	9.9	97	7.9	364	13.2	--	--	--	--	
MAY 28...	0900	Environmental	447	9.0	92	7.8	371	15.6	200	41.2	23.2	1.56	
28...	0901	Replicate	--	9.0	92	7.8	372	15.6	200	41.5	23.3	1.53	
JUL 15...	1530	Environmental	302	11.1	133	7.8	393	24.2	--	--	--	--	
SEP 09...	1630	Environmental	348	13.0	151	7.8	371	20.9	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf	ANC, wat unf	Bicar-	Carbon-	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue	Residue	Ammonia	Nitrite + nitrate water fltrd, mg/L as N (00631)	
		fixed end pt, field, mg/L as CaCO ₃ (00410)	incr. titr., field, mg/L as CaCO ₃ (00419)	bonate, wat unf incr. titr., field, mg/L (00450)	ate, wat unf incr. titr., field, mg/L (00447)				on evap. at 180degC wat flt mg/L (70300)	total at 105 deg. C, suspended, mg/L (00530)	+ org-N, water, unfltrd mg/L as N (00625)		Ammonia water, fltrd, mg/L as N (00608)
NOV 13...	1.63	201	202	247	<1	2.95	<0.2	4.2	220	<10	E.06	<0.04	0.51
JAN 21...	--	180	180	210	5	--	--	--	--	<10	E.06	<0.04	0.92
MAR 25...	--	173	173	211	<1	--	--	--	--	<10	E.07	<0.04	0.78
MAY 28...	2.08	186	186	227	<1	4.30	<0.2	4.1	201	<10	0.10	<0.04	0.54
28...	2.07	--	--	--	--	4.42	<0.2	4.1	203	<10	0.11	<0.04	0.55
JUL 15...	--	203	206	251	<1	--	--	--	--	<10	E.08	<0.04	0.46
SEP 09...	--	201	202	247	<1	--	--	--	--	<10	E.08n	<0.04	0.43
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recover-able, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)
NOV 13...	<0.008	<0.02	<0.04	<0.04	3k	25	4k	<2	7	0.5	E.02	<0.2	<6
JAN 21...	<0.008	<0.02	<0.04	<0.04	<1b	5k	2k	--	--	--	--	--	--
MAR 25...	<0.008	<0.02	<0.04	E.03	28	24	14k	--	--	--	--	--	--
MAY 28...	<0.008	<0.02	E.03	<0.04	66	65k	40	<2	28	0.4	<0.04	<0.2	<7
28...	<0.008	<0.02	E.03	<0.04	18k	90k	28	<2	26	0.4	<0.04	<0.2	<7
JUL 15...	<0.008	<0.02	<0.04	<0.04	2k	3k	9k	--	--	--	--	--	--
SEP 09...	<0.008	<0.18d	E.02n	<0.04	4k	8k	8k	--	--	--	--	--	--

07057500 NORTH FORK RIVER NEAR TECUMSEH, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 13...	<10	<0.08	<1	E2.0b	<0.02	E.3	M	E1
JAN 21...	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--
MAY 28...	E4	<0.08	M	4.2	<0.02	<0.5	1	E1
28...	E6	<0.08	<1	4.3	<0.02	<0.5	1	2
JUL 15...	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

07057750 BRYANT CREEK BELOW EVANS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°52'16", long 92°28'18", in SE 1/4 NW 1/4 NW 1/4 sec.10, T.25 N., R.14 W., Douglas County, Hydrologic Unit 11010006, 13 mi south of Ava, 12 mi west of Highway 95 and Highway 14 intersection, on Highway 14.

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 14...	0915	Environmental	36	9.5	86	8.0	420	9.8	230	49.8	26.1	1.27	
JAN 22...	1225	Environmental	36	14.6	116	8.4	410	4.6	--	--	--	--	
MAR 25...	1110	Environmental	72	11.4	112	8.0	368	13.0	--	--	--	--	
MAY 28...	1200	Environmental	36	9.4	101	7.9	406	17.6	200	43.2	23.1	1.07	
JUL 16...	0930	Environmental	30	6.4	79	7.5	429	24.6	--	--	--	--	
SEP 09...	1430	Environmental	37	9.7	116	7.7	423	22.7	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 14...	2.67	206	206	252	<1	4.91	<0.2	4.2	238	<10	E.07	<0.04	0.53
JAN 22...	--	225	223	256	8	--	--	--	--	<10	E.07	<0.04	0.53
MAR 25...	--	181	181	220	<1	--	--	--	--	<10	E.10	<0.04	0.43
MAY 28...	2.09	206	208	254	<1	4.39	<0.2	4.3	224	<10	E.10	<0.04	0.30
JUL 16...	--	220	225	274	<1	--	--	--	--	<10	0.12	<0.04	0.32
SEP 09...	--	226	226	276	<1	--	--	--	--	<10	0.22	<0.04	0.33
Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7μ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, μg/L (01106)	Aluminum, water, unfltrd recoverable, μg/L (01105)	Arsenic water, fltrd, μg/L (01000)	Cadmium water, fltrd, μg/L (01025)	Cadmium water, unfltrd μg/L (01027)	Copper, water, fltrd, μg/L (01040)
NOV 14...	E.004	<0.02	E.02	<0.04	8k	6k	29	<2	7	0.4	<0.04	<0.2	<6
JAN 22...	<0.008	<0.02	<0.04	<0.04	<1b	4k	4k	--	--	--	--	--	--
MAR 25...	E.006	<0.02	<0.04	E.03	8k	25	11k	--	--	--	--	--	--
MAY 28...	<0.008	<0.02	<0.04	E.02	16k	45	29	<2	24	0.5	<0.04	<0.2	<7
JUL 16...	<0.008	<0.02	<0.04	E.03	83k	75k	140	--	--	--	--	--	--
SEP 09...	<0.008	<0.18d	<0.04	<0.04	6k	15k	30	--	--	--	--	--	--

07057750 BRYANT CREEK BELOW EVANS, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 14...	<10	<0.08	<1	3.3	<0.02	<0.5	M	<2
JAN 22...	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--
MAY 28...	<8	<0.08	<1	7.5	<0.02	<0.5	Mn	<2
JUL 16...	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

07058000 BRYANT CREEK NEAR TECUMSEH, MO

LOCATION.--Lat 36°37'33", long 92°18'16", in E ½ sec.32, T.23 N., R.12 W., Ozark County, Hydrologic Unit 11010006, on left bank 0.8 mi downstream from Pine Creek, 3 mi northwest of Tecumseh, and 5 mi upstream from mouth.

DRAINAGE AREA.--570 mi².

PERIOD OF RECORD.--October 1944 to September 1985, October 1994 to September 1996, October 1998 to current year.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1441: 1945, 1946-47(M), 1950. WSP 1731: 1945-47, 1950.

GAGE.--Water-stage recorder. Datum of gage 573.15 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 30, 1945, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

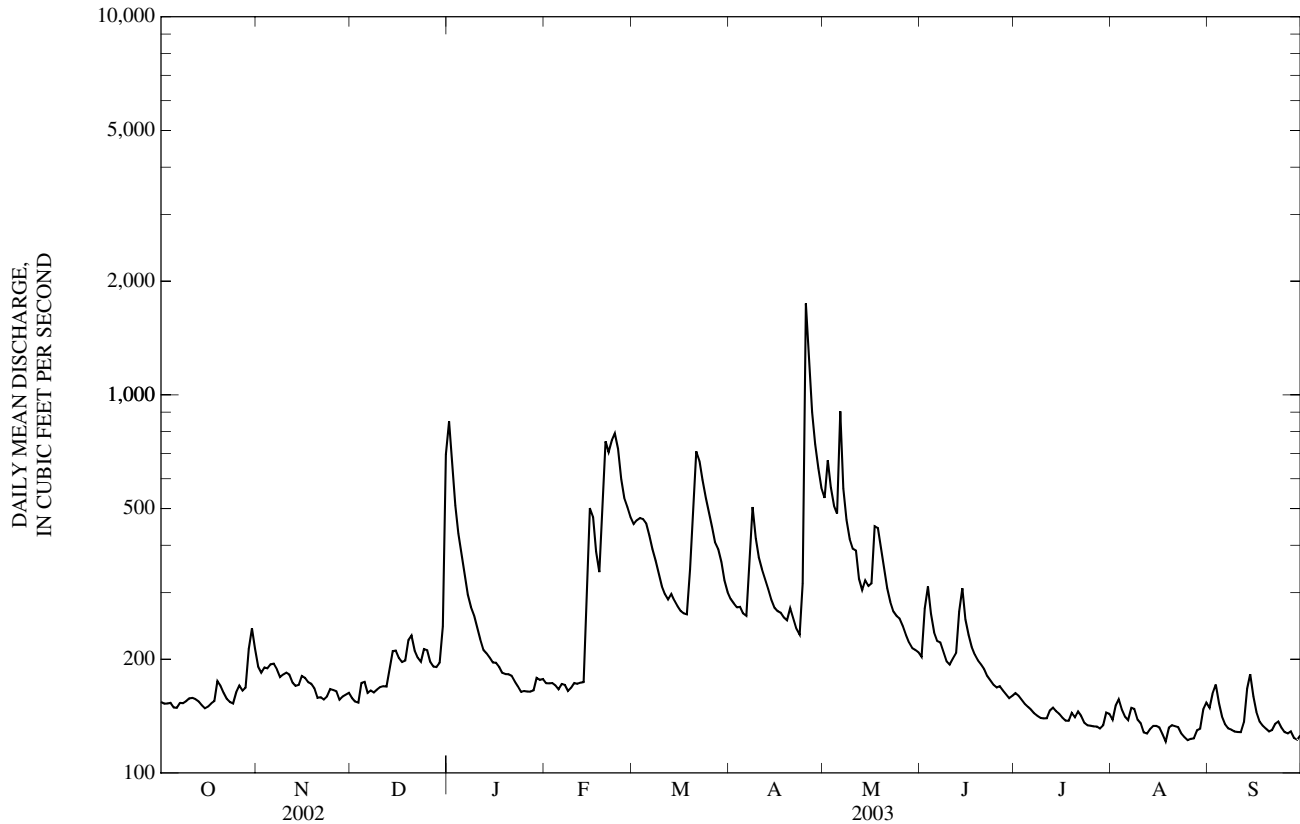
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	191	158	850	173	456	289	534	203	163	138	149
2	153	184	154	644	173	466	281	671	272	160	151	162
3	153	190	153	510	173	472	274	570	311	156	157	171
4	153	189	173	430	170	469	275	509	263	152	147	153
5	149	194	174	376	167	457	264	485	235	150	141	141
6	149	195	163	333	172	424	261	904	223	147	138	134
7	153	188	165	296	171	391	355	566	221	144	149	131
8	153	179	163	275	165	364	505	467	209	142	148	130
9	155	182	166	261	168	337	417	416	197	140	139	129
10	158	184	169	243	173	312	371	392	193	140	135	128
11	158	182	170	226	172	297	346	388	201	140	128	128
12	157	174	169	212	173	288	326	326	208	146	127	136
13	155	170	187	207	174	298	307	304	267	149	131	167
14	151	171	210	202	297	286	288	323	308	146	133	182
15	148	181	211	196	502	276	274	312	255	143	133	159
16	150	178	201	196	475	268	268	317	232	140	132	145
17	153	174	197	191	384	264	265	449	216	138	127	137
18	155	172	198	184	340	263	258	445	205	137	121	133
19	175	167	225	183	528	345	253	396	199	144	132	131
20	170	158	231	182	753	527	273	351	194	140	134	129
21	163	159	211	181	705	709	257	308	188	145	133	130
22	157	156	202	175	757	669	241	283	180	141	132	135
23	154	159	197	169	791	595	232	267	175	136	127	137
24	153	167	213	164	720	536	317	260	171	134	124	132
25	164	166	211	165	598	490	1,740	256	168	133	122	128
26	170	164	197	164	534	449	1,220	245	170	133	123	127
27	165	156	191	164	504	408	900	232	165	133	124	129
28	168	159	191	165	476	391	741	221	161	131	130	124
29	213	161	196	178	---	362	640	214	158	134	131	123
30	241	163	244	176	---	323	568	212	160	144	147	126
31	213	---	696	177	---	301	---	208	---	143	153	---
MEAN	163	174	206	260	378	403	434	382	210	143	135	139
MAX	241	195	696	850	791	709	1,740	904	311	163	157	182
MIN	148	156	153	164	165	263	232	208	158	131	121	123
IN.	0.33	0.34	0.42	0.53	0.69	0.82	0.85	0.77	0.41	0.29	0.27	0.27

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	232	398	502	493	629	834	944	891	507	339	227	226
MAX	893	1,664	4,280	2,350	2,129	2,483	3,497	3,059	1,990	1,748	910	654
(WY)	(1971)	(1952)	(1983)	(1950)	(1985)	(1945)	(1945)	(2002)	(1945)	(1951)	(1950)	(1996)
MIN	112	127	119	112	141	138	178	175	118	110	105	103
(WY)	(1957)	(1955)	(1956)	(1956)	(1981)	(1981)	(1981)	(1954)	(1954)	(1954)	(1954)	(1954)

07058000 BRYANT CREEK NEAR TECUMSEH, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	697		251		518	
HIGHEST ANNUAL MEAN					1,229	
LOWEST ANNUAL MEAN					149	
HIGHEST DAILY MEAN	19,300	May 8	1,740	Apr 25	52,000	Dec 3, 1982
LOWEST DAILY MEAN	148	Oct 15	121	Aug 18	97	Aug 18, 1954
ANNUAL SEVEN-DAY MINIMUM	152	Oct 2	126	Aug 23	99	Sep 13, 1954
MAXIMUM PEAK FLOW	---		2,950	Apr 25	71,100	Dec 3, 1982
MAXIMUM PEAK STAGE	---		7.87	Apr 25	26.74	Dec 3, 1982
INSTANTANEOUS LOW FLOW	---		118	Aug 25	96	Sep 16, 1954
ANNUAL RUNOFF (INCHES)	16.59		5.99		12.34	
10 PERCENT EXCEEDS	1,490		473		1,030	
50 PERCENT EXCEEDS	254		181		259	
90 PERCENT EXCEEDS	159		133		140	



WHITE RIVER BASIN

07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°26'44", long 90°57'45", in SE ¼ SW ¼ SE ¼ sec.20, T.32 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, approximately 1.0 mi north of Centerville on State Highway 72.

DRAINAGE AREA.--137 mi².

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 18...	1350	Environmental	48	11.2	106	8.4	363	11.8	190	38.0	23.6	1.07
JAN 06...	1325	Environmental	109	12.7	105	7.8	295	6.8	--	--	--	--
MAR 10...	1120	Environmental	91	13.8	115	7.7	276	6.9	--	--	--	--
MAY 21...	1420	Environmental	185	9.4	101	7.8	269	18.0	140	29.0	16.7	1.08
JUL 08...	1345	Environmental	48	8.1	106	7.5	344	26.8	--	--	--	--
SEP 02...	1145	Environmental	79	8.5	102	7.9	370	23.0	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
NOV 18...	6.34	157	158	174	10	6.44	<0.2	34.6	214	<10	E.08	<0.04	0.06
JAN 06...	--	127	127	154	<1	--	--	--	--	<10	<0.10	<0.04	0.30
MAR 10...	--	116	117	143	<1	--	--	--	--	<10	E.06	<0.04	0.15
MAY 21...	3.27	118	118	144	<1	3.34	<0.2	15.8	155	<10	<0.10	<0.04	0.11
JUL 08...	--	149	146	182	<1	--	--	--	--	<10	E.07	<0.04	0.10
SEP 02...	--	148	149	182	<1	--	--	--	--	<10	0.16	<0.04	0.12

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 18...	<0.008	<0.02	<0.04	<0.04	<1b	1k	2k	<2	2	E.2	<0.04	<0.2	<6
JAN 06...	<0.008	<0.02	<0.04	<0.04	<1b	2k	2k	--	--	--	--	--	--
MAR 10...	<0.008	<0.02	<0.04	E.02	<1b	<1b	<1b	--	--	--	--	--	--
MAY 21...	E.005	<0.09	<0.04	<0.04	<1b	6k	6k	E1	8	E.2	<0.04	<0.2	<6
JUL 08...	<0.008	<0.02	<0.04	<0.04	2k	9k	13k	--	--	--	--	--	--
SEP 02...	<0.008	<0.18d	<0.04	<0.04	2k	20k	6k	--	--	--	--	--	--

07061150 WEST FORK BLACK RIVER AT CENTERVILLE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 18...	<10	<0.08	<1	E.8n	<0.02	<0.5	M	<2
JAN 06...	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--
MAY 21...	<10	E.06	<1	E1.3	<0.02	<0.5	M	<2
JUL 08...	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°36'14", long 90°47'19", NW ¼ SE ¼ sec.35, T.34 N., R.2 E., Iron County, Hydrologic Unit 11010007, approximately 6.0 mi southwest of State Highway 21 on State Highway N.

DRAINAGE AREA.--16 mi².

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 18...	1125	Environmental	9.7	10.9	96	8.0	252	8.3	140	28.1	16.1	1.02
JAN 06...	1500	Environmental	7.5	12.6	103	7.3	138	6.0	--	--	--	--
MAR 11...	0845	Environmental	14	11.9	95	7.3	137	4.4	--	--	--	--
MAY 22...	0900	Environmental	43	9.0	90	7.1	114	14.0	53	11.1	6.21	1.05
JUL 08...	1115	Environmental	6.4	7.3	95	7.3	146	27.2	--	--	--	--
SEP 02...	1315	Environmental	11	8.2	97	7.7	267	22.0	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 18...	2.25	130	129	157	<1	2.22	<0.2	6.3	136	<10	<0.10	<0.04	<0.06
JAN 06...	--	55	55	68	<1	--	--	--	--	<10	<0.10	<0.04	E.05
MAR 11...	--	59	59	72	<1	--	--	--	--	<10	0.12	<0.04	E.05
MAY 22...	1.97	48	48	58	<1	1.99	<0.2	7.1	74	<10	E.05	<0.04	E.04
JUL 08...	--	67	67	82	<1	--	--	--	--	<10	0.14	<0.04	0.06
SEP 02...	--	129	128	156	<1	--	--	--	--	<10	0.16	<0.04	<0.06

Date	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E. coli, m-TEC MF, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	Fecal streptococci, KF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd, recoverable, µg/L (01105)	Arsenic, water, fltrd, µg/L (01000)	Cadmium, water, fltrd, µg/L (01025)	Cadmium, water, unfltrd, µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 18...	<0.008	<0.02	<0.04	<0.04	<1b	1k	1k	<2	6	E.2	<0.04	<0.2	<6
JAN 06...	<0.008	<0.02	<0.04	<0.04	<1b	2k	8k	--	--	--	--	--	--
MAR 11...	<0.008	<0.02	E.02	<0.04	<1b	8k	7k	--	--	--	--	--	--
MAY 22...	<0.008	<0.09	<0.04	<0.04	35	41	69	3	67	E.2	<0.04	<0.2	<6
JUL 08...	<0.008	<0.02	E.02	<0.04	3k	3k	34	--	--	--	--	--	--
SEP 02...	<0.008	<0.02	<0.04	<0.04	18k	78	27k	--	--	--	--	--	--

07061260 EAST FORK BLACK RIVER NEAR IRONTON, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 18...	E6	<0.08	<1	4.6	<0.02	<0.5	2	11
JAN 06...	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--
MAY 22...	E9	E.05	<1	20.8	<0.02	<0.5	M	<2
JUL 08...	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

k -- Counts outside acceptable range

WHITE RIVER BASIN

07061500 BLACK RIVER NEAR ANNAPOLIS, MO

LOCATION.--Lat 37°20'10", long 90°47'19", in SW ¼ NW ¼ sec.25, T.31 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, on right bank 0.4 mi downstream from Mayberry Branch, 7 mi southwest of Annapolis, 11 mi downstream from East Fork Black River, and at mile 278.5.

DRAINAGE AREA.--484 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 569.72 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Aug. 21, 1942, at site 415 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by upstream reservoir since February 1963. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

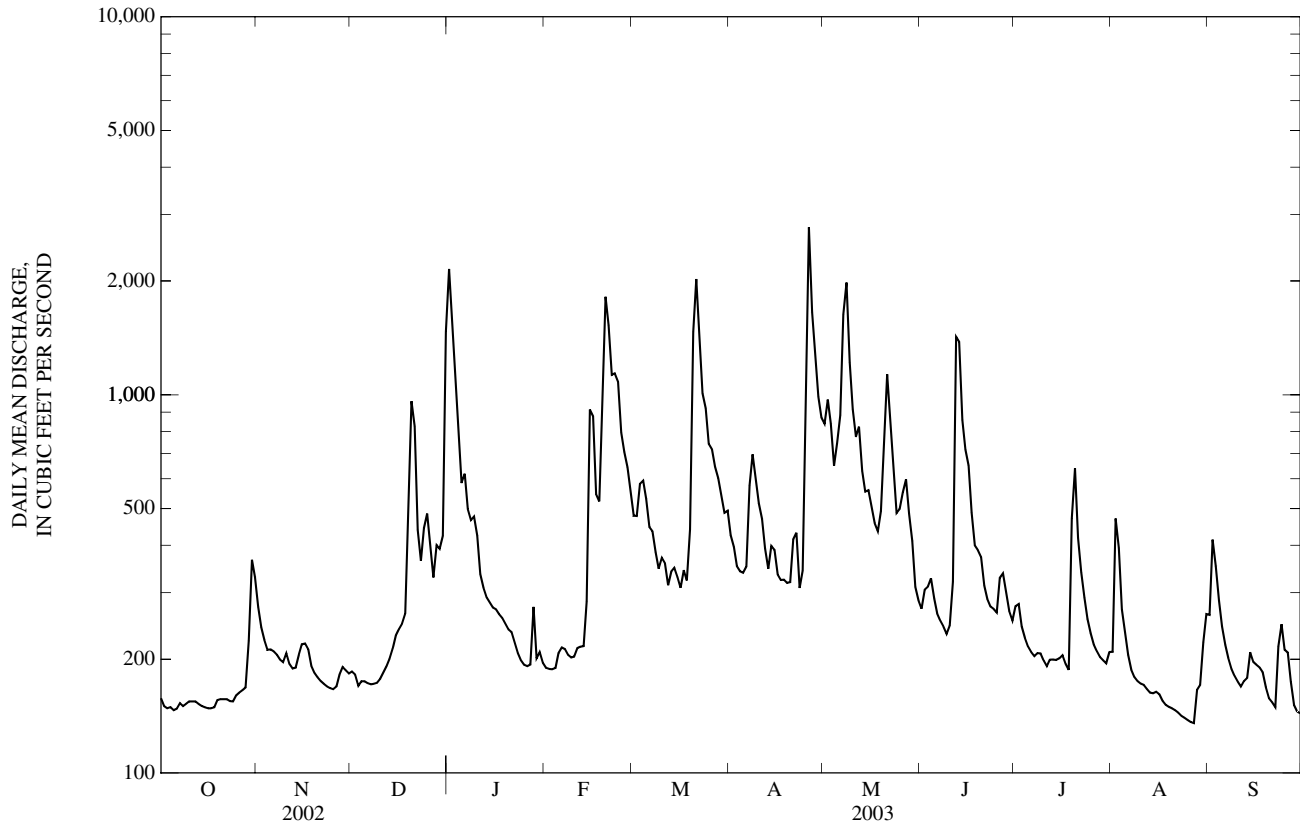
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	275	185	2,150	190	479	425	839	272	276	209	262
2	150	243	182	1,530	188	478	396	971	305	280	471	414
3	148	225	170	1,050	188	582	352	838	311	244	394	352
4	149	212	175	789	190	593	341	649	327	228	271	286
5	147	212	175	585	208	530	338	744	290	216	235	244
6	148	210	173	619	215	447	351	883	264	209	206	219
7	153	205	172	499	213	436	576	1,630	252	204	188	202
8	150	199	172	467	206	383	696	1,980	244	207	179	189
9	152	196	173	476	202	347	603	1,220	233	207	175	181
10	155	207	177	424	203	370	516	916	245	198	172	175
11	155	194	184	336	214	359	470	774	320	192	171	169
12	155	189	191	309	216	314	392	824	1,420	199	167	175
13	152	190	200	291	217	341	347	629	1,380	200	163	179
14	150	205	214	283	284	349	399	555	858	199	162	209
15	149	219	231	274	914	329	389	559	717	201	164	197
16	148	220	240	271	878	309	335	509	650	205	161	193
17	148	212	248	263	546	344	324	458	488	195	155	190
18	149	192	264	257	522	323	325	436	400	187	151	185
19	156	184	530	248	904	441	318	493	389	471	150	169
20	157	179	962	240	1,820	1,470	320	722	373	639	148	158
21	157	175	825	236	1,530	2,030	414	1,130	313	419	147	154
22	157	172	440	221	1,130	1,400	432	872	289	340	144	149
23	155	169	364	208	1,140	1,010	309	648	276	291	142	216
24	155	168	445	198	1,080	921	343	487	272	256	140	247
25	161	167	485	193	794	742	971	499	266	234	138	212
26	163	169	408	192	707	718	2,770	552	328	219	136	208
27	166	182	329	193	644	647	1,650	598	337	210	135	174
28	168	191	401	275	554	602	1,260	485	298	203	166	151
29	224	187	392	201	---	541	988	411	268	199	171	145
30	366	183	424	209	---	488	872	311	253	195	222	144
31	329	---	1,470	195	---	494	---	286	---	209	263	---
MEAN	169	198	355	441	575	607	607	739	421	249	190	205
MAX	366	275	1,470	2,150	1,820	2,030	2,770	1,980	1,420	639	471	414
MIN	147	167	170	192	188	309	309	286	233	187	135	144
IN.	0.40	0.46	0.85	1.05	1.24	1.45	1.40	1.76	0.97	0.59	0.45	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

MEAN	261	638	671	599	746	997	1,150	924	508	292	209	226
MAX	1,151	3,619	3,913	2,509	2,091	2,903	3,467	4,801	4,263	1,800	1,289	1,061
(WY)	(1942)	(1986)	(1983)	(1950)	(1985)	(1945)	(1957)	(2002)	(1945)	(1951)	(1982)	(1993)
MIN	84.8	111	119	108	147	161	228	165	140	88.5	76.7	72.4
(WY)	(1957)	(1965)	(1956)	(1956)	(1963)	(1941)	(2000)	(2000)	(1972)	(1954)	(1965)	(1955)

07061500 BLACK RIVER NEAR ANNAPOLIS, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL MEAN	881		395		601	
HIGHEST ANNUAL MEAN					1,420	
LOWEST ANNUAL MEAN					235	
HIGHEST DAILY MEAN	34,100	May 13	2,770	Apr 26	47,900	Nov 14, 1993
LOWEST DAILY MEAN	129	Aug 10	135	Aug 27	66	Sep 15, 1954
ANNUAL SEVEN-DAY MINIMUM	137	Aug 5	140	Aug 21	67	Aug 12, 1965
MAXIMUM PEAK FLOW	---		3,420	Apr 26	109,000	Nov 14, 1993
MAXIMUM PEAK STAGE	---		7.76	Apr 26	27.38	Nov 14, 1993
INSTANTANEOUS LOW FLOW	---		134	Aug 27,28	65	Aug 16, 1965
ANNUAL RUNOFF (INCHES)	24.71		11.09		16.88	
10 PERCENT EXCEEDS	1,600		838		1,150	
50 PERCENT EXCEEDS	238		257		276	
90 PERCENT EXCEEDS	155		157		120	



WHITE RIVER BASIN

07061600 BLACK RIVER BELOW ANNAPOLIS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°19'30", long 90°45'50", in NW ¼ SE ¼ NW ¼ sec.31, T.31 N., R.3 E., Reynolds County, Hydrologic Unit 11010007, approximately 4.5 mi southwest of Annapolis at the bridge on County Highway K.

DRAINAGE AREA.--493 mi².

PERIOD OF RECORD.--May 1993 to September 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 18...	1545	Environmental	188	11.5	107	7.9	291	11.2	160	31.7	18.9	0.88
JAN 07...	1350	Environmental	489	12.8	105	7.6	235	6.3	--	--	--	--
MAR 10...	1315	Environmental	329	12.6	107	7.8	214	7.8	--	--	--	--
MAY 21...	1600	Environmental	1,320	10.0	108	7.7	172	18.1	99	20.3	11.7	1.08
JUL 07...	1345	Environmental	203	7.5	97	7.4	276	26.7	--	--	--	--
SEP 02...	1545	Environmental	468	8.4	101	7.4	250	23.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 18...	3.11	127	125	153	<1	3.70	<0.2	23.1	170	<10	<0.10	<0.04	0.08
JAN 07...	--	97	97	118	<1	--	--	--	--	<10	<0.10	<0.04	0.29
MAR 10...	--	98	98	120	<1	--	--	--	--	<10	E.07	<0.04	0.22
MAY 21...	2.34	82	83	101	<1	2.57	<0.2	15.0	113	<10	E.08	<0.04	0.12
JUL 07...	--	122	122	149	<1	--	--	--	--	<10	E.06	<0.04	0.13
SEP 02...	--	104	103	125	<1	--	--	--	--	<10	0.11	<0.04	0.14

Date	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E. coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC, col/100 mL (31625)	Fecal streptococci, KF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd, recoverable, µg/L (01105)	Arsenic, water, fltrd, µg/L (01000)	Cadmium, water, fltrd, µg/L (01025)	Cadmium, water, unfltrd, µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 18...	<0.008	<0.02	<0.04	<0.04	<1b	2k	2k	<2	12	E.2	<0.04	<0.2	<6
JAN 07...	<0.008	<0.02	<0.04	<0.04	<1b	1k	1k	--	--	--	--	--	--
MAR 10...	<0.008	<0.02	<0.04	<0.04	<1b	<1b	<1b	--	--	--	--	--	--
MAY 21...	<0.008	<0.09	<0.04	E.02	1k	33	37	2	40	E.2	<0.04	<0.2	<6
JUL 07...	<0.008	<0.02	<0.04	<0.04	1k	3k	4k	--	--	--	--	--	--
SEP 02...	<0.008	<0.18d	<0.04	<0.04	54	137k	48	--	--	--	--	--	--

07061600 BLACK RIVER BELOW ANNAPOLIS, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 18...	<10	<0.08	<1	E1.4n	<0.02	<0.5	1	E1
JAN 07...	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--
MAY 21...	<10	E.05	<1	2.6	<0.02	<0.5	M	<2
JUL 07...	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

07061900 LOGAN CREEK AT ELLINGTON, MO

LOCATION.--Lat 37°14'47", long 90°57'55", in SE ¼ NW ¼ NE ¼, sec.32, T.30 N., R.1 E., Reynolds County, Hydrologic Unit 11010007, on downstream end of center pier of bridge on State Route 21, 0.1 mi downstream from Dry Valley Creek, and about 10 mi upstream from Clearwater Lake.

DRAINAGE AREA.--139 mi².

PERIOD OF RECORD.--July 21, 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.51 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.7	3.3	15	3.8	17	9.1	20	4.9	5.5	4.9	6.5
2	2.1	3.6	3.2	13	3.8	16	8.7	24	5.5	5.8	5.9	14
3	2.3	3.8	3.1	12	3.8	15	8.6	21	5.7	6.3	4.7	7.8
4	2.5	4.0	3.6	11	3.7	15	9.5	19	5.1	6.4	4.5	6.6
5	2.2	5.1	3.5	10	3.7	14	11	18	4.6	5.1	4.4	5.3
6	2.7	4.2	3.4	9.3	4.0	13	20	17	4.6	4.4	4.1	4.4
7	2.8	4.0	3.4	8.6	3.7	12	22	19	4.4	4.1	3.9	4.1
8	2.6	3.9	3.5	8.6	3.7	11	19	17	4.0	3.9	3.7	4.0
9	2.6	4.2	3.4	8.2	3.8	11	17	16	3.7	3.6	3.7	4.0
10	2.7	4.4	3.5	7.5	3.7	10	16	15	14	3.4	3.6	3.9
11	3.0	4.1	3.4	7.1	3.7	8.9	16	19	16	3.5	3.5	4.0
12	2.9	4.0	3.4	7.1	3.6	8.6	15	15	18	5.4	3.5	4.2
13	2.7	4.0	4.6	6.8	3.6	9.9	14	13	32	3.8	3.5	4.3
14	2.6	3.9	5.0	6.7	11	8.5	12	13	26	3.2	3.3	4.5
15	2.6	4.1	4.7	6.4	9.5	8.2	11	12	20	2.9	3.1	4.0
16	2.6	3.8	4.7	6.4	8.6	7.9	11	14	19	2.7	3.0	3.7
17	2.6	3.8	5.1	6.0	8.2	8.2	11	14	15	2.6	2.9	3.5
18	2.6	3.8	6.4	5.8	10	7.7	10	14	13	2.9	2.7	3.3
19	3.2	3.8	8.7	5.8	24	15	8.9	12	12	22	2.9	3.2
20	2.9	3.7	8.3	5.6	22	15	9.3	11	12	8.5	3.2	3.1
21	2.8	3.6	7.4	5.1	22	14	8.8	9.6	11	7.5	2.8	3.1
22	3.6	3.7	7.5	5.1	24	13	7.9	8.9	8.5	6.4	2.7	3.1
23	4.3	3.7	7.4	5.2	22	13	7.5	8.1	7.7	6.2	2.6	3.0
24	4.4	3.7	8.3	5.3	21	13	12	7.8	7.6	5.7	2.5	3.0
25	4.8	3.6	7.9	e5.2	19	14	35	8.4	7.4	5.3	2.3	2.8
26	4.1	3.5	7.2	e5.1	18	12	32	7.6	9.3	5.1	2.2	3.0
27	3.5	3.4	7.1	e5.0	18	12	23	7.2	6.8	4.8	2.2	3.3
28	3.6	3.4	6.8	e4.7	17	12	20	6.4	6.1	4.9	2.5	3.0
29	7.3	3.4	6.8	4.5	---	11	18	5.8	5.7	5.3	3.3	e2.8
30	4.2	3.4	7.9	4.2	---	9.9	15	5.8	5.4	4.7	4.8	e2.7
31	3.8	---	18	4.2	---	10	---	5.4	---	4.5	4.2	---
MEAN	3.19	3.84	5.82	7.11	10.8	11.8	14.6	13.0	10.5	5.37	3.45	4.27
MAX	7.3	5.1	18	15	24	17	35	24	32	22	5.9	14
MIN	2.1	3.4	3.1	4.2	3.6	7.7	7.5	5.4	3.7	2.6	2.2	2.7
IN.	0.03	0.03	0.05	0.06	0.08	0.10	0.12	0.11	0.08	0.04	0.03	0.03

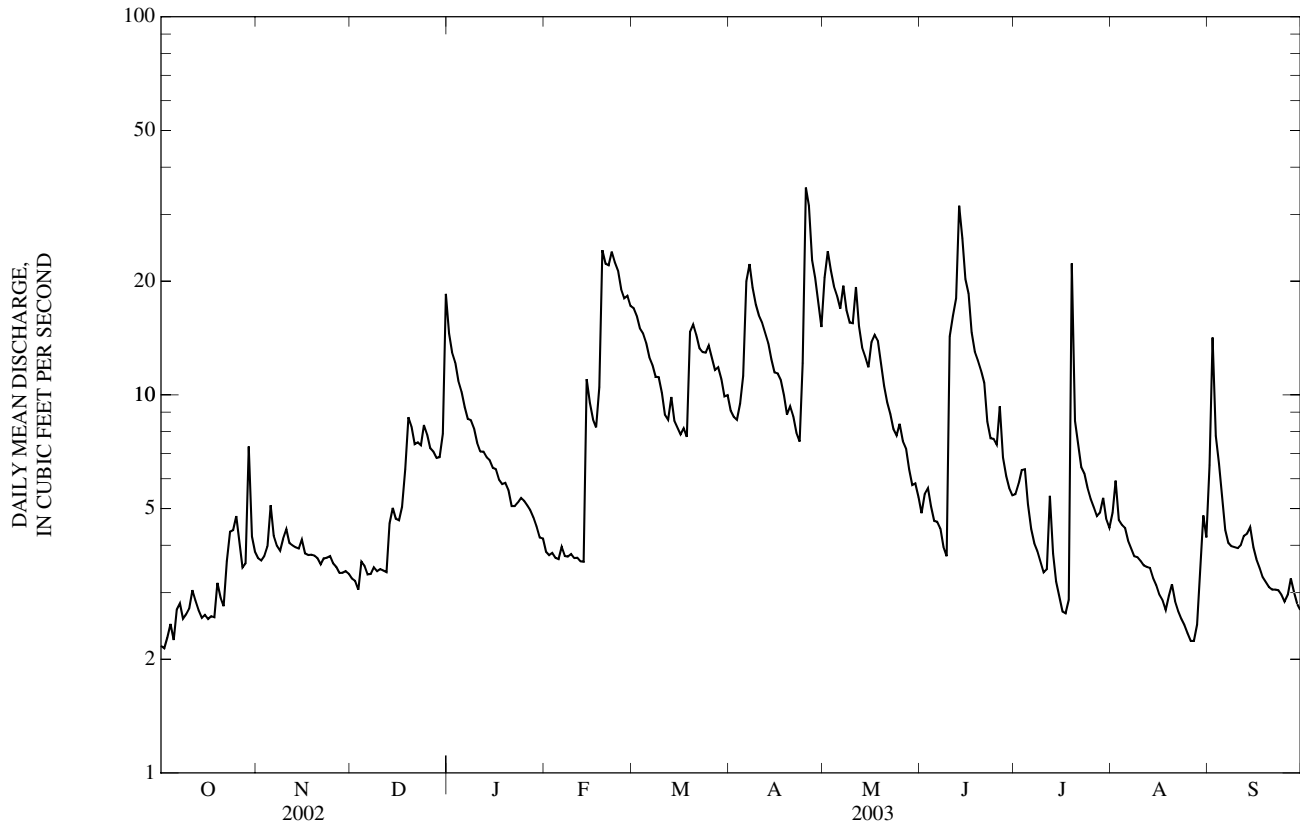
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	4.64	15.6	13.9	11.2	41.9	34.7	59.6	134	27.4	8.38	5.91	6.04
MAX	14.6	93.7	50.2	21.8	201	85.1	225	833	138	28.3	23.2	27.9
(WY)	(1997)	(1997)	(2002)	(1999)	(1999)	(2002)	(1999)	(2002)	(1998)	(1998)	(1998)	(1996)
MIN	0.93	1.29	3.18	3.63	7.36	7.25	5.26	3.45	4.09	2.38	1.33	0.74
(WY)	(2001)	(2002)	(2001)	(2001)	(1996)	(2001)	(2000)	(2000)	(2001)	(2001)	(2001)	(2001)

07061900 LOGAN CREEK AT ELLINGTON, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL MEAN	89.3		7.79		30.2	
HIGHEST ANNUAL MEAN					92.7	2002
LOWEST ANNUAL MEAN					4.94	2001
HIGHEST DAILY MEAN	7,970	May 17	35	Apr 25	7,970	May 17, 2002
LOWEST DAILY MEAN	2.1	Oct 2	2.1	Oct 2	0.42	Oct 4, 2001
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 30	2.4	Oct 1	0.50	Oct 3, 2001
MAXIMUM PEAK FLOW	---		130	Jul 19	16,300	May 17, 2002
MAXIMUM PEAK STAGE	---		2.60	Jul 19	13.22	May 17, 2002
INSTANTANEOUS LOW FLOW	---		2.1	Oct 1-3, Aug 26, 27	0.42	Oct 9, 2001
ANNUAL RUNOFF (INCHES)	8.72		0.76		2.96	
10 PERCENT EXCEEDS	62		16		31	
50 PERCENT EXCEEDS	7.1		5.3		7.0	
90 PERCENT EXCEEDS	3.1		2.9		2.6	

e Estimated



07062000 CLEARWATER LAKE NEAR PIEDMONT, MO

LOCATION.--Lat 37°08'00", long 90°46'31", NW ¼ sec.6, T.28 N., R.3 E., Wayne County, Hydrologic Unit 11010007, in intake tower at dam on Black River, 2.3 mi upstream from Brewer Bay, 4.5 mi west of Piedmont, and at mile 257.4.

DRAINAGE AREA.--898 mi².

PERIOD OF RECORD.--June 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earthfill type dam. Storage began June 3, 1948; conservation pool level reached July 4, 1948. Capacity at crest of spillway 413,700 ac-ft at elevation 567.0 ft, of which 391,800 ac-ft is available for flood-control storage, and 21,920 ac-ft is permanent storage which under normal operating conditions will be maintained for purposes of conservation and recreation at elevation 494.0 ft. Lake is used for flood control and recreational purposes. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 409,700 ac-ft, May 20, 2002, elevation, 566.60 ft; minimum, since initial filling to conservation pool level, 15,800 ac-ft, Jan. 20, 23, 1972, elevation, 490.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,000 ac-ft, Apr. 28, elevation, 504.22 ft; minimum, 22,000 ac-ft, Jan. 12, elevation, 494.04 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499.79	494.54	494.37	499.30	494.44	494.59	494.61	501.17	500.15	500.47	500.40	501.21
2	499.41	494.35	494.38	500.06	494.41	494.34	494.32	501.32	500.28	500.47	500.61	501.44
3	499.03	494.11	494.38	499.18	494.43	494.27	494.19	501.52	500.36	500.44	501.02	501.24
4	498.67	494.09	494.44	497.94	494.38	494.49	494.30	501.49	500.37	500.39	501.07	500.91
5	498.25	494.20	494.44	496.28	494.36	494.53	494.44	501.23	500.40	500.30	500.85	500.74
6	497.88	494.31	494.44	495.16	494.42	494.28	494.75	501.02	500.40	500.20	500.52	500.65
7	497.49	494.33	494.43	494.69	494.43	494.24	495.21	501.32	500.39	500.16	500.36	500.53
8	497.08	494.32	494.43	494.50	494.41	494.45	495.20	502.47	500.36	500.17	500.36	500.39
9	496.71	494.39	494.43	494.49	494.42	494.62	495.02	502.50	500.32	500.17	500.40	500.23
10	496.32	494.45	494.44	494.42	494.42	494.53	494.60	502.34	500.37	500.18	500.43	500.17
11	495.94	494.51	494.44	494.28	494.42	494.41	494.54	502.70	500.57	500.18	500.40	500.18
12	495.55	494.52	494.44	494.04	494.43	494.29	494.67	502.27	501.58	500.20	500.33	500.23
13	495.11	494.49	494.63	494.05	494.45	494.17	494.69	501.33	502.74	500.20	500.27	500.31
14	494.70	494.48	494.73	494.21	494.67	494.21	494.65	500.55	502.99	500.20	500.25	500.37
15	494.49	494.51	494.83	494.34	495.25	494.39	494.91	500.37	502.98	500.19	500.27	500.34
16	494.47	494.52	494.84	494.44	496.22	494.52	495.41	500.47	502.44	500.19	500.30	500.22
17	494.44	494.53	494.67	494.45	495.93	494.53	495.68	501.18	501.47	500.19	500.33	500.17
18	494.41	494.52	494.55	494.45	495.07	494.53	495.85	501.80	500.75	500.18	500.32	500.18
19	494.43	494.43	494.51	494.44	495.21	494.65	496.00	501.64	500.44	500.24	500.35	500.18
20	494.42	494.36	495.23	494.42	496.31	495.31	496.17	501.13	500.49	500.76	500.34	500.14
21	494.41	494.33	496.06	494.39	496.49	496.81	496.31	501.08	500.54	500.90	500.31	500.11
22	494.40	494.32	496.38	494.37	496.21	497.53	496.65	501.00	500.53	500.74	500.28	500.10
23	494.39	494.35	496.30	494.29	495.70	497.58	496.79	500.86	500.49	500.46	500.24	500.12
24	494.36	494.40	496.10	494.25	495.18	497.05	497.04	500.72	500.42	500.30	500.21	500.24
25	494.40	494.37	495.94	494.30	494.75	496.32	498.17	500.57	500.33	500.22	500.16	500.30
26	494.41	494.30	495.75	494.34	494.89	495.31	501.70	500.41	500.39	500.12	500.14	500.33
27	494.44	494.29	495.49	494.36	494.89	494.82	503.92	500.32	500.44	500.00	500.14	500.35
28	494.52	494.34	495.30	494.46	494.84	494.85	504.22	500.30	500.47	500.04	500.16	500.30
29	494.63	494.36	495.12	494.51	---	494.98	503.18	500.18	500.47	500.11	500.28	500.23
30	494.64	494.38	495.02	494.46	---	494.97	501.90	500.14	500.49	500.25	500.57	500.03
31	494.67	---	496.22	494.45	---	494.80	---	500.16	---	500.31	500.75	---
MAX	499.79	494.54	496.38	500.06	496.49	497.58	504.22	502.70	502.99	500.90	501.07	501.44
MIN	494.36	494.09	494.37	494.04	494.36	494.17	494.19	500.14	500.15	500.00	500.14	500.03
(-)	23,000	22,500	25,700	22,600	23,300	23,200	36,700	33,100	33,700	33,400	34,300	32,800
(=)	-9,900	-500	+3,200	-3,100	+700	-100	+13,500	-3,600	+600	-300	+900	-1,500

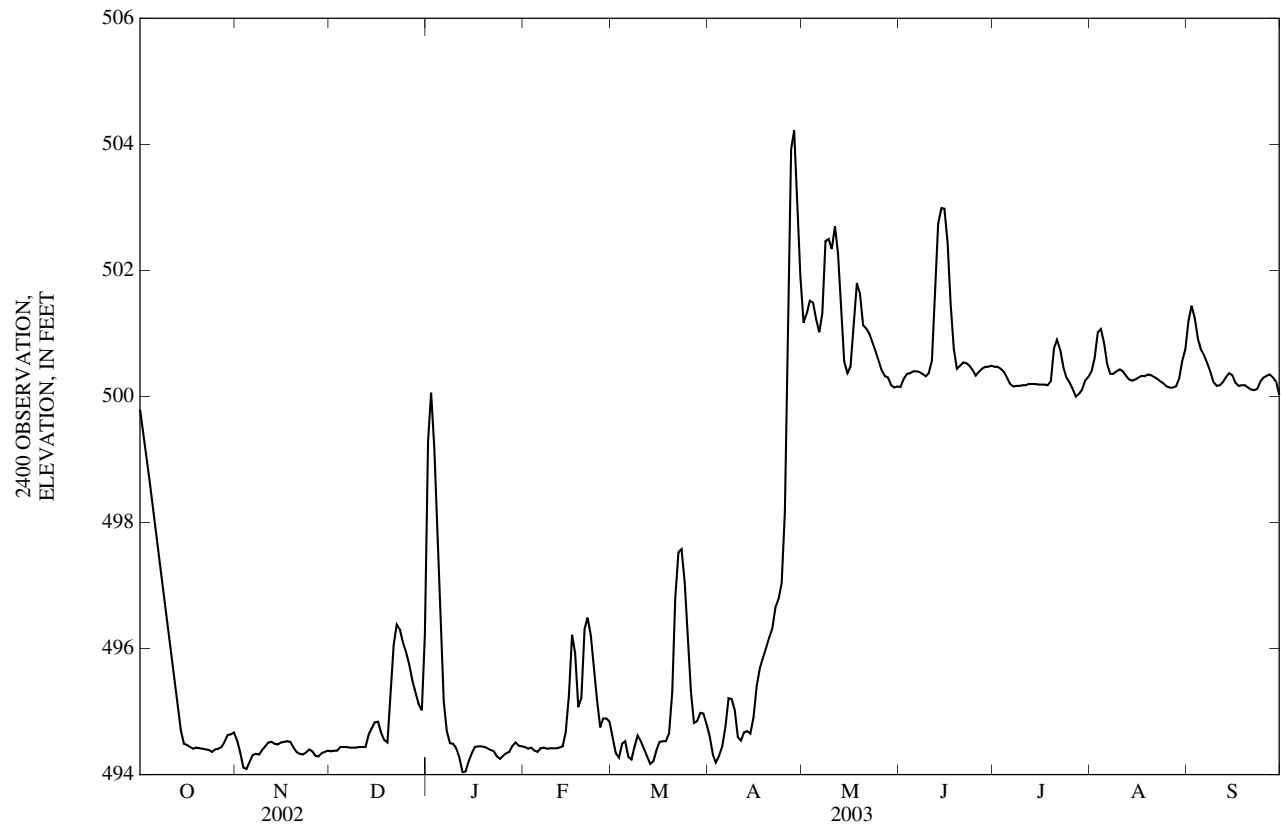
CAL YR 2002.....+3,900

WTR YR 2003..... -100

(-) Contents, in acre-feet, at the end of the month.

(=) Change in contents, in acre-feet.

07062000 CLEARWATER LAKE NEAR PIEDMONT, MO—Continued



WHITE RIVER BASIN

07063000 BLACK RIVER AT POPLAR BLUFF, MO

LOCATION.--Lat 36°45'34", long 90°23'17", in SW ¼ NW ¼ sec.2, T.24 N., R.6 E., Butler County, Hydrologic Unit 11010007, on right bank at City Light and Water Plant in Poplar Bluff, 1,500 ft upstream from bridge on Business Route 60, 4.8 mi downstream from Indian Creek, and at mile 211.2.

DRAINAGE AREA.--1,245 mi².

PERIOD OF RECORD.--October 1936 to September 1937, October 1939 to current year. Gage-height records collected at site 1,800 ft downstream September 1923 to July 1935 and since July 1935 at site 1,500 ft downstream, in reports of the National Weather Service.

REVISED RECORDS.--WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 317.48 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1940, nonrecording gage at site 1,500 ft downstream at datum 2.00 ft higher; Oct. 1, 1940, to June 7, 1955, at site 1,500 ft downstream at present datum. Prior to July 12, 1985, at datum 0.10 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Considerable regulation by Clearwater Lake (07062000), 46 mi upstream since June 3, 1948. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1904 reached a maximum discharge of 100,000 ft³/s, and flood of Mar. 12, 1935, reached a stage of 21.1 ft, present datum (affected by levees constructed since 1904).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	610	682	525	4,770	619	1,770	1,290	2,960	922	694	e532	604
2	664	773	530	2,320	591	1,720	1,310	2,820	877	683	e539	2,220
3	797	801	533	2,080	586	1,630	1,290	2,210	890	673	597	4,910
4	838	806	558	2,990	587	1,470	1,190	1,900	835	665	641	2,120
5	843	761	571	3,060	570	1,360	1,040	2,910	829	659	829	1,400
6	844	587	550	3,000	581	1,380	945	2,610	817	655	1,230	1,190
7	858	567	547	2,580	588	1,440	1,350	2,450	803	650	1,050	984
8	843	570	547	1,980	574	1,280	1,030	2,370	764	623	937	920
9	843	606	547	1,580	573	1,050	1,350	2,380	741	550	725	884
10	856	586	549	1,350	579	977	1,570	2,490	736	538	598	863
11	846	571	563	1,260	588	1,030	1,590	2,960	821	539	e558	808
12	845	554	564	1,190	592	1,100	1,390	2,540	999	546	e529	685
13	832	557	609	1,160	589	1,070	1,140	2,330	951	e541	e563	669
14	824	583	693	1,030	1,090	1,050	1,080	2,710	1,050	e530	587	713
15	822	606	672	824	1,520	964	1,050	2,490	1,460	e518	e571	653
16	757	605	658	770	1,360	838	945	2,140	1,530	e507	e549	651
17	561	601	674	757	1,260	803	742	2,780	1,780	e504	e539	734
18	506	600	829	769	1,500	830	713	2,130	2,110	e524	e524	711
19	503	611	1,960	759	2,220	1,040	768	1,430	1,910	619	e516	622
20	501	641	1,920	753	2,470	1,190	791	1,580	1,470	566	e502	595
21	489	655	1,320	746	2,300	1,390	785	2,080	1,090	564	e496	588
22	480	606	1,100	729	3,050	1,740	754	2,080	894	596	e488	609
23	474	581	1,010	715	3,600	1,940	739	2,040	834	779	e480	e589
24	469	548	1,150	704	3,360	1,970	769	1,810	804	877	e476	e578
25	476	535	1,360	670	3,070	2,130	844	1,560	785	828	e474	e565
26	504	524	1,310	600	2,630	2,340	1,010	1,510	829	683	e468	e555
27	499	564	1,280	575	1,980	2,340	837	1,460	867	650	e465	e551
28	491	566	1,230	563	1,820	2,010	730	1,370	782	657	e462	e543
29	508	539	1,160	566	---	1,540	1,470	1,270	720	756	467	e543
30	568	524	1,150	576	---	1,330	2,730	1,240	700	580	701	e542
31	639	---	3,990	620	---	1,280	---	1,110	---	e546	824	---
MEAN	664	610	989	1,356	1,459	1,419	1,108	2,120	1,020	623	610	953
MAX	858	806	3,990	4,770	3,600	2,340	2,730	2,960	2,110	877	1,230	4,910
MIN	469	524	525	563	570	803	713	1,110	700	504	462	542
IN.	0.62	0.55	0.92	1.26	1.22	1.31	0.99	1.96	0.91	0.58	0.57	0.85

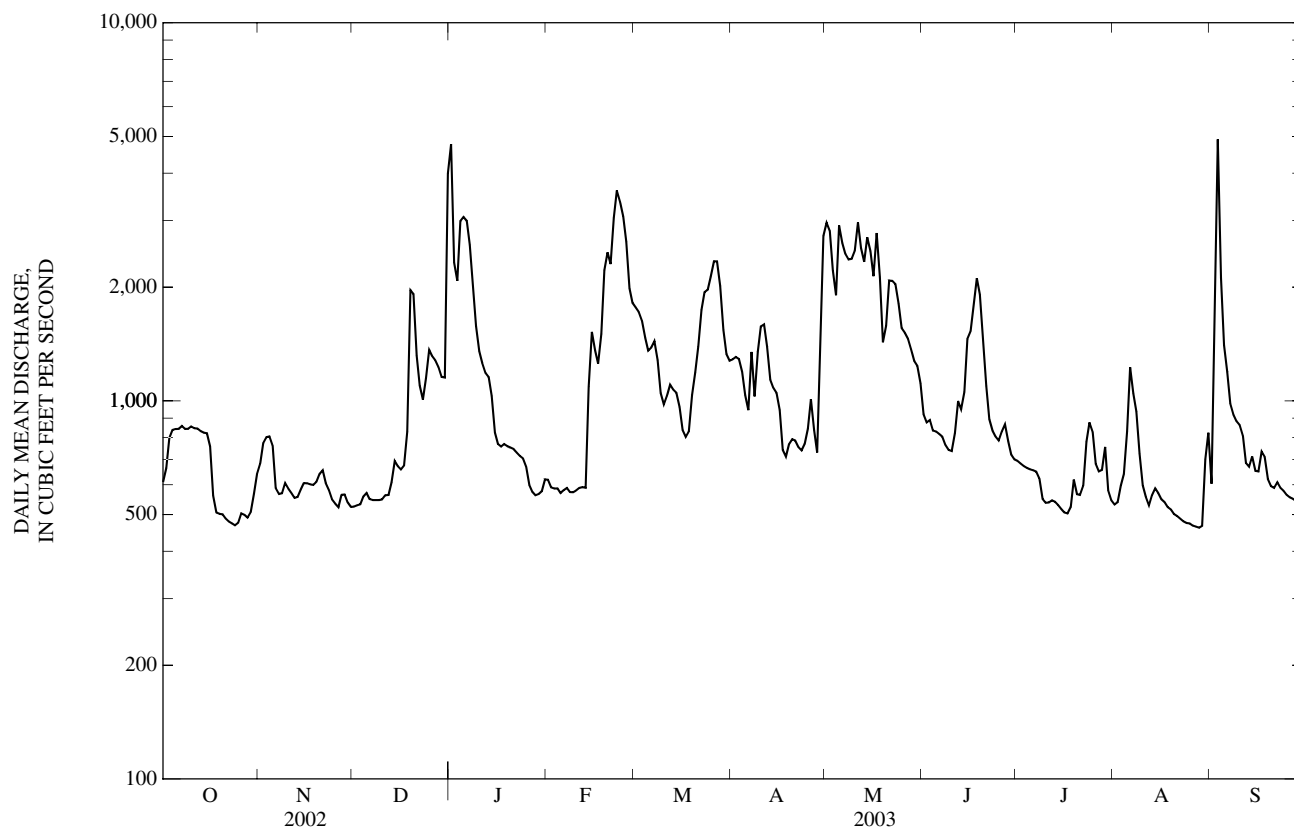
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY)

MEAN	655	970	1,523	1,649	1,753	2,131	2,198	1,949	1,322	901	684	645
MAX	1,913	2,962	5,501	3,890	4,938	4,485	4,873	4,407	4,030	3,673	3,232	2,071
(WY)	(1983)	(1973)	(1983)	(1950)	(1949)	(1975)	(1973)	(2002)	(2002)	(2002)	(1957)	(1985)
MIN	259	315	335	309	376	564	676	375	434	321	288	268
(WY)	(1957)	(1954)	(1954)	(1956)	(1963)	(1981)	(2000)	(2001)	(2001)	(1954)	(1954)	(1954)

07063000 BLACK RIVER AT POPLAR BLUFF, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1949 - 2003	
ANNUAL MEAN	2,116		1,076		1,363	
HIGHEST ANNUAL MEAN					2,858	
LOWEST ANNUAL MEAN					564	
HIGHEST DAILY MEAN	11,000	May 9	4,910	Sep 3	41,200	Dec 4, 1982
LOWEST DAILY MEAN	384	Sep 16	462	Aug 28	186	Sep 25, 1966
ANNUAL SEVEN-DAY MINIMUM	407	Sep 12	470	Aug 23	245	Sep 21, 1966
MAXIMUM PEAK FLOW	---		6,160	Sep 3	65,600 ^a	Dec 4, 1982
MAXIMUM PEAK STAGE	---		14.82	Sep 3	21.68 ^b	Dec 4, 1982
INSTANTANEOUS LOW FLOW	---		465 ^c	Oct 24,25, Aug 30	180	Sep 25, 1966
ANNUAL RUNOFF (INCHES)	23.08		11.74		14.88	
10 PERCENT EXCEEDS	4,140		2,130		3,310	
50 PERCENT EXCEEDS	1,280		791		832	
90 PERCENT EXCEEDS	529		534		384	

e Estimated

^a Post-regulation period.^b Former datum.^c Minimum recorded, may have been lower during period of estimated record.

LOCATION.--Lat 37°22'32", long 91°33'09", in NE ¼ NW ¼ NW ¼ sec.24, T.31 N., R.6 W., Shannon County, Hydrologic Unit 11010008, on left bank 200 ft above ferry crossing at Akers on Highway K, approximately 20 mi north of Summersville, behind old icehouse behind Akers Ferry General Store.

PERIOD OF RECORD.--July 19, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--No estimated daily discharges. Records good. U.S.G.S. satellite telemeter at station.

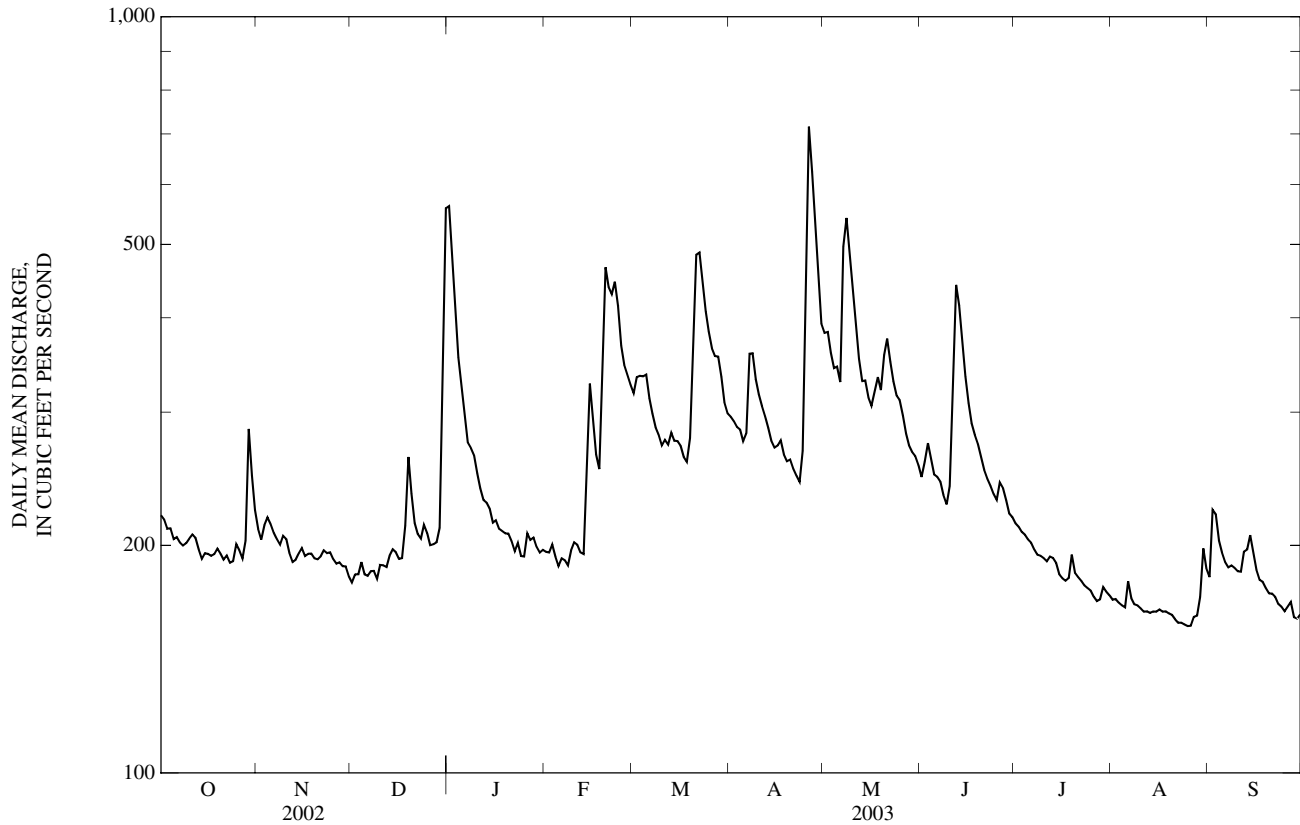
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	210	179	562	196	318	296	382	246	214	170	182
2	216	203	183	494	196	334	292	383	258	212	170	223
3	210	213	183	412	200	335	287	360	273	208	168	220
4	211	218	190	354	193	335	284	343	260	207	167	203
5	204	213	183	323	188	336	275	344	248	204	166	196
6	205	208	182	297	192	313	281	329	246	202	179	190
7	202	204	185	274	191	299	358	497	243	197	170	187
8	200	200	185	269	188	286	359	542	233	194	167	188
9	201	206	181	263	197	280	332	490	226	194	167	187
10	204	204	188	249	202	271	317	442	240	192	165	185
11	207	195	188	238	200	276	305	395	307	191	163	185
12	205	190	187	230	196	272	296	353	442	193	164	196
13	198	191	194	228	195	282	286	330	415	192	163	198
14	192	195	198	224	252	275	275	330	370	190	164	206
15	195	198	196	214	327	275	269	314	335	183	163	195
16	195	194	192	216	291	271	271	306	308	181	165	186
17	194	195	192	210	264	262	275	320	290	180	163	180
18	195	195	212	209	252	258	264	334	280	181	164	179
19	198	192	262	207	335	277	258	321	272	194	163	176
20	195	192	234	207	466	378	260	357	262	184	162	173
21	192	193	214	203	439	485	253	375	252	182	160	173
22	194	197	207	196	430	488	247	350	245	180	158	171
23	190	195	204	201	446	447	243	330	240	177	158	167
24	191	196	213	194	414	408	267	316	234	176	157	166
25	201	192	208	193	367	383	447	311	230	174	156	164
26	197	189	200	207	346	364	715	297	242	171	157	166
27	192	190	201	203	336	356	623	281	238	169	161	168
28	203	188	202	205	326	355	516	271	229	170	161	161
29	285	188	211	199	---	334	442	266	220	176	171	160
30	247	182	361	196	---	309	393	262	218	174	198	162
31	223	---	558	197	---	299	---	255	---	172	187	---
MEAN	205	198	215	254	279	328	333	348	270	188	166	183
MAX	285	218	558	562	466	488	715	542	442	214	198	223
MIN	190	182	179	193	188	258	243	255	218	169	156	160
IN.	0.80	0.75	0.84	0.99	0.99	1.28	1.26	1.36	1.02	0.73	0.65	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2003, BY WATER YEAR (WY)

[illegible]

07064533 CURRENT RIVER ABOVE AKERS, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2001 - 2003	
ANNUAL MEAN	521		247		383	
HIGHEST ANNUAL MEAN					518	
LOWEST ANNUAL MEAN					247	
HIGHEST DAILY MEAN	12,700	May 8	715	Apr 26	12,700	May 8, 2002
LOWEST DAILY MEAN	143	Jan 22	156	Aug 25	130	Oct 7, 2001
ANNUAL SEVEN-DAY MINIMUM	148	Jan 16	158	Aug 21	132	Nov 6, 2001
MAXIMUM PEAK FLOW	---		759	Apr 26	Unknown	May 8, 2002
MAXIMUM PEAK STAGE	---		2.44	Apr 26	18.20	May 8, 2002
INSTANTANEOUS LOW FLOW	---		154	Aug 22-26, Sep 29	129	Oct 1, 2001
ANNUAL RUNOFF (INCHES)	23.96		11.37		17.62	
10 PERCENT EXCEEDS	927		359		666	
50 PERCENT EXCEEDS	248		207		234	
90 PERCENT EXCEEDS	190		170		159	



WHITE RIVER BASIN

07065200 JACKS FORK NEAR MOUNTAIN VIEW, MO

LOCATION.--Lat 37°03'22", long 91°40'05", in NW ¼ NE ¼ SW ¼ sec.36, T.28 N., R.7 W., Texas County, Hydrologic Unit 11010008, on downstream pier of State Highway 17 bridge, 3.8 mi north of junction with Highway 60 and 8.6 mi south of Summersville.

DRAINAGE AREA.--185 mi².

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--No estimated daily discharges. Records good. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

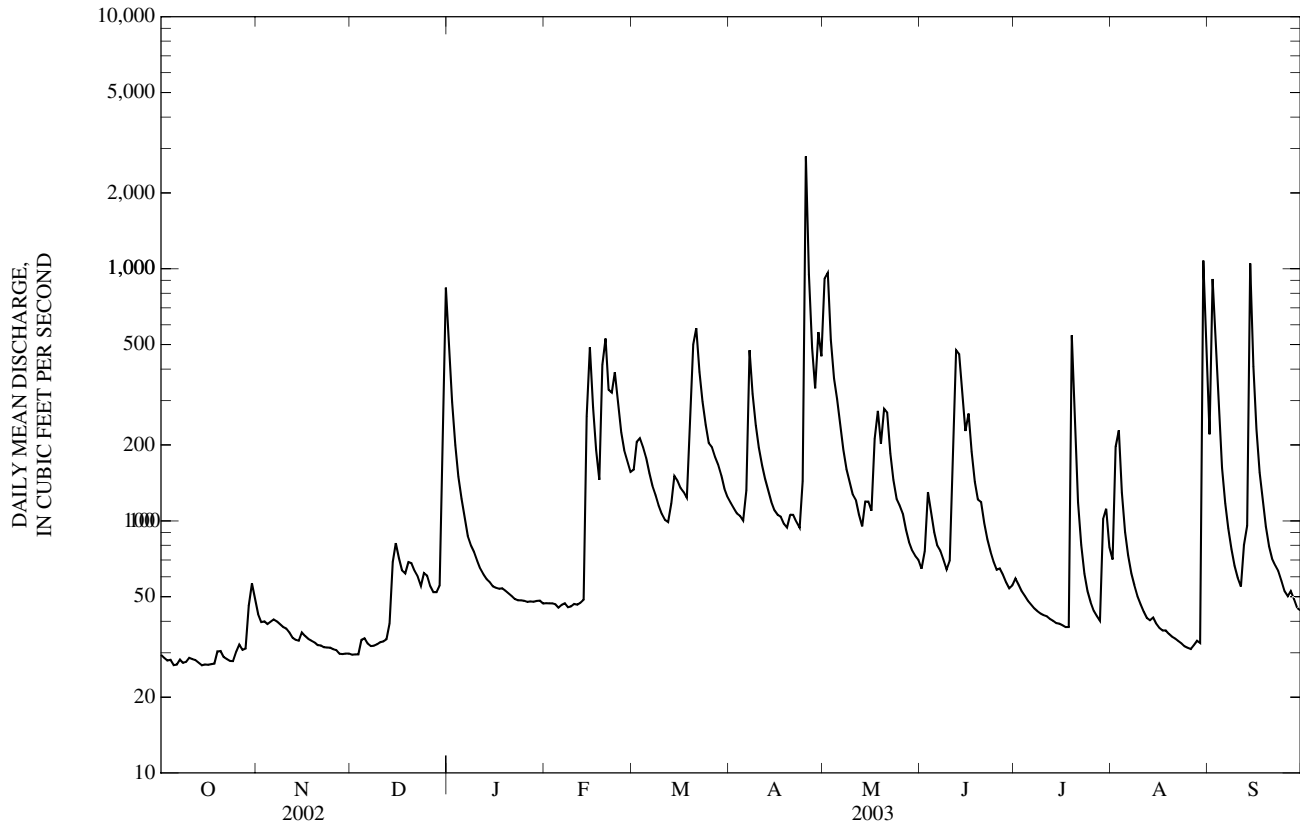
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	43	29	499	47	160	118	914	65	59	70	221
2	29	40	30	296	47	206	112	964	76	56	197	911
3	28	40	30	200	47	213	107	523	130	53	229	507
4	28	39	34	150	47	196	105	367	109	50	129	259
5	27	40	34	122	45	178	100	304	90	48	90	162
6	27	41	33	102	46	155	132	237	80	47	73	117
7	28	40	32	87	47	138	475	192	76	45	62	93
8	27	39	32	80	45	126	319	160	70	44	56	77
9	28	38	32	75	46	115	240	142	64	43	50	67
10	29	37	33	69	47	106	195	127	69	42	47	60
11	28	36	33	65	47	101	166	121	161	42	44	55
12	28	34	34	61	47	99	147	106	476	41	41	80
13	27	34	39	59	49	117	132	95	459	40	40	96
14	27	33	69	57	260	151	119	119	321	39	41	1,050
15	27	36	82	55	488	144	110	119	227	39	39	409
16	27	35	71	54	282	135	106	110	266	39	38	232
17	27	34	64	54	191	130	104	212	188	38	37	156
18	27	33	62	54	146	123	97	273	143	38	37	121
19	30	33	69	53	416	220	94	202	122	544	36	95
20	30	32	68	52	529	501	106	278	119	235	35	79
21	29	32	63	50	331	581	106	269	98	118	34	71
22	28	32	60	49	323	390	99	185	85	80	33	66
23	28	31	55	48	389	297	94	145	76	62	33	63
24	28	31	62	48	298	240	144	122	69	53	32	58
25	30	31	61	48	224	204	2,790	115	64	48	31	53
26	32	31	55	48	191	196	951	107	65	44	31	50
27	31	30	52	48	172	180	485	92	61	42	32	53
28	31	30	52	48	157	167	336	82	57	40	33	49
29	46	30	55	48	---	151	561	76	54	102	33	45
30	56	30	285	48	---	134	450	73	56	112	1,080	44
31	49	---	842	47	---	124	---	70	---	79	503	---
MEAN	30.5	34.8	82.3	89.5	179	193	303	223	133	76.2	105	180
MAX	56	43	842	499	529	581	2,790	964	476	544	1,080	1,050
MIN	27	30	29	47	45	99	94	70	54	38	31	44
IN.	0.19	0.21	0.51	0.56	1.01	1.20	1.83	1.39	0.80	0.47	0.66	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	26.7	30.6	136	100	185	372	392	581	111	130	78.6	109
MAX	30.5	34.8	189	111	192	551	480	939	133	184	105	180
(WY)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)
MIN	22.9	26.5	82.3	89.5	179	193	303	223	89.4	76.2	51.9	37.4
(WY)	(2002)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)	(2002)

07065200 JACKS FORK NEAR MOUNTAIN VIEW, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL MEAN	233		135		188	
HIGHEST ANNUAL MEAN					241	
LOWEST ANNUAL MEAN					135	
HIGHEST DAILY MEAN	9,400	May 8	2,790	Apr 25	9,400	May 8, 2002
LOWEST DAILY MEAN	27	Several Days	27	Several Days	15	Oct 3, 2001
ANNUAL SEVEN-DAY MINIMUM	27	Oct 12	27	Oct 12	17	Oct 1, 2001
MAXIMUM PEAK FLOW	---		4,760	Apr 25	43,600	May 8, 2002
MAXIMUM PEAK STAGE	---		9.26	Apr 25	27.68	May 8, 2002
INSTANTANEOUS LOW FLOW	---		26	Oct 5,6	15	Oct 3, 2001
ANNUAL RUNOFF (INCHES)	17.11		9.92		13.80	
10 PERCENT EXCEEDS	458		296		388	
50 PERCENT EXCEEDS	56		65		62	
90 PERCENT EXCEEDS	30		31		29	



WHITE RIVER BASIN

370857091265901 JACKS FORK ABOVE ALLEY SPRING, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°08'57", long 91°26'59", in NE ¼ SW ¼ SW ¼ sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, at Alley Spring Campground, 0.5 mi upstream of Highway 106 bridge, 1.0 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA.--302 mi².

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	0945	Environmental	53	9.0	94	8.0	340	16.6	E.05	<0.04	0.06	<0.008
08...	1445	Environmental	53	8.6	94	7.9	346	18.3	--	--	--	--
09...	0855	Environmental	54	7.6	81	7.9	339	17.3	--	--	--	--
09...	1400	Environmental	54	8.8	94	8.0	343	17.8	0.12	<0.04	0.14	<0.008
JUN												
02...	1530	Environmental	112	8.3	92	8.0	300	18.4	0.10	<0.04	0.14	<0.008
09...	1330	Environmental	101	9.4	113	8.1	324	23.0	E.07	<0.04	0.12	<0.008
28...	0900	Environmental	92	7.9	92	8.1	343	21.8	<0.10	<0.04	0.11	<0.008
JUL												
26...	0945	Environmental	82	7.7	93	8.1	316	23.7	E.08	<0.04	<0.06	<0.008
AUG												
06...	0930	Environmental	128	7.0	89	8.3	320	25.6	E.07n	<0.04	E.06n	<0.008
SEP												
23...	0900	Environmental	94	7.9	86	8.0	321	18.6	E.09n	<0.04	0.12	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7µ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	<0.004	48	52	62
08...	--	--	20k	32k	20k
09...	--	--	50	64	56
09...	E.01	<0.004	32k	36k	20k
JUN					
02...	--r	<0.004	12k	36	60
09...	<0.02	<0.004	1k	4k	5k
28...	<0.02	0.004	2k	10k	20
JUL					
26...	<0.02	E.003	8k	8k	24
AUG					
06...	<0.02	E.002n	5k	20	--e
SEP					
23...	<0.02	<0.004	23	70k	12k

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range
n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail
r -- Sample ruined in preparation

07065495 JACKS FORK AT ALLEY SPRING, MO

LOCATION.--Lat 37°08'53", long 91°26'35", in SW ¼ SW ¼ SE ¼ sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, on downstream pier of State Highway 106 bridge, just downstream of Highway 106 bridge, 0.5 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--March 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 656.74 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1999, datum was 4.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. U.S.G.S satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

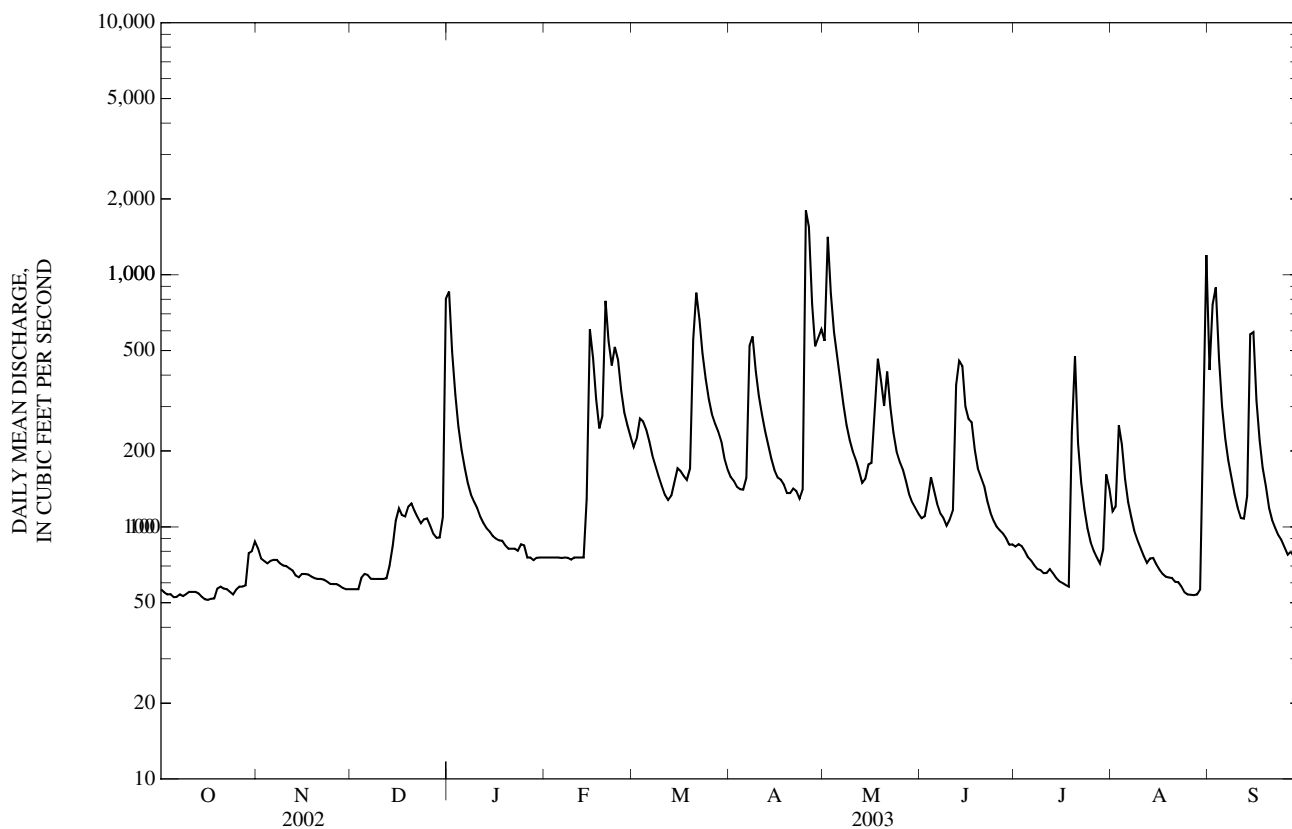
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	82	57	858	76	207	158	547	108	84	115	419
2	55	75	57	495	76	224	152	1,410	110	85	121	761
3	54	73	57	336	76	269	144	844	130	84	253	891
4	54	72	63	251	76	262	141	591	157	80	212	467
5	53	73	65	202	76	244	140	480	138	76	155	302
6	53	74	64	171	75	218	157	382	123	74	126	224
7	54	74	62	149	76	192	523	307	113	70	109	183
8	53	72	62	134	75	174	569	254	108	68	96	157
9	54	70	62	126	74	159	414	221	101	67	88	135
10	55	70	62	119	76	145	331	200	107	66	82	119
11	55	69	62	110	76	134	278	184	116	66	77	109
12	55	67	63	103	76	128	240	167	365	68	72	108
13	54	64	70	99	76	133	210	149	456	65	75	132
14	53	63	84	96	129	150	187	155	435	63	75	581
15	52	65	106	92	607	171	168	177	300	61	71	593
16	51	65	119	90	467	166	157	179	268	60	68	318
17	52	65	111	88	322	159	154	282	260	59	65	220
18	52	64	110	88	246	154	147	464	202	58	63	172
19	57	63	120	84	276	170	136	383	170	235	63	145
20	58	62	124	82	788	556	136	302	157	476	63	119
21	57	62	115	82	544	849	142	413	145	215	61	107
22	57	62	109	82	437	663	139	299	127	149	60	99
23	55	61	103	80	518	486	129	237	114	118	58	93
24	54	59	107	85	460	386	140	199	106	99	55	89
25	56	59	108	84	346	322	1,800	182	100	87	54	83
26	58	59	101	76	285	280	1,550	169	97	80	54	78
27	58	58	94	76	252	258	765	152	94	76	54	80
28	59	57	90	74	228	240	520	135	90	72	54	76
29	79	57	91	75	---	218	563	125	85	81	56	72
30	80	57	109	76	---	187	607	119	85	161	386	68
31	88	---	803	76	---	169	---	113	---	142	1,200	---
MEAN	57.5	65.8	110	150	246	260	363	317	166	105	134	233
MAX	88	82	803	858	788	849	1,800	1,410	456	476	1,200	891
MIN	51	57	57	74	74	128	129	113	85	58	54	68
IN.	0.22	0.25	0.43	0.58	0.86	1.01	1.36	1.23	0.62	0.41	0.52	0.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2003, BY WATER YEAR (WY)

MEAN	110	289	186	195	409	441	484	487	178	114	90.2	185
MAX	298	1,426	370	331	976	767	1,121	1,554	381	217	145	1,007
(WY)	(1999)	(1994)	(1997)	(1995)	(1999)	(2002)	(1994)	(2002)	(1995)	(2002)	(1998)	(1993)
MIN	39.3	41.3	76.6	74.5	81.6	159	86.5	93.5	83.3	52.2	31.5	31.2
(WY)	(2002)	(2002)	(2001)	(2000)	(1996)	(2001)	(2000)	(2001)	(2001)	(2001)	(2001)	(2000)

07065495 JACKS FORK AT ALLEY SPRING, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1993 - 2003	
ANNUAL MEAN	350		183		258	
HIGHEST ANNUAL MEAN					469	
LOWEST ANNUAL MEAN					95.9	
HIGHEST DAILY MEAN	15,800	May 8	1,800	Apr 25	23,300	Nov 14, 1993
LOWEST DAILY MEAN	38	Jan 17	51	Oct 16	22	Sep 22, 2000
ANNUAL SEVEN-DAY MINIMUM	40	Jan 12	53	Oct 12	23	Sep 17, 2000
MAXIMUM PEAK FLOW	---		3,770	Apr 25	48,700	Nov 14, 1993
MAXIMUM PEAK STAGE	---		7.17	Apr 25	21.97	Nov 14, 1993
INSTANTANEOUS LOW FLOW	---		51	Oct 6,15-18	22	Sep 22, 2000
ANNUAL RUNOFF (INCHES)	15.95		8.34		11.77	
10 PERCENT EXCEEDS	666		436		490	
50 PERCENT EXCEEDS	103		108		118	
90 PERCENT EXCEEDS	55		58		50	



370901091262001 ALLEY SPRING BELOW ALLEY, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°09'01", long 91°26'20", in NE ¼ SW ¼ SE ¼ sec.25, T.29 N., R.5 W., Shannon County, Hydrologic Unit 11010008, at Alley Spring Campground, and 5.0 mi west of Eminence.

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	0855	Environmental	89	9.2	91	7.5	314	13.8	0.53	<0.04	0.59	0.032
08...	1405	Environmental	89	9.8	97	7.5	321	14.1	--	--	--	--
09...	0830	Environmental	89	8.9	88	7.5	312	13.9	--	--	--	--
09...	1325	Environmental	89	9.2	92	7.6	317	14.1	E.05	<0.04	0.69	<0.008
JUN												
02...	1630	Environmental	113	9.0	90	6.9	218	13.7	E.08	<0.04	0.63	<0.008
09...	1430	Environmental	117	10.6	107	7.5	231	14.5	0.11	<0.04	0.70	<0.008
28...	0945	Environmental	91	9.6	95	7.6	282	14.1	<0.10	<0.04	0.70	<0.008
JUL												
26...	1030	Environmental	86	9.4	93	7.6	295	14.4	<0.10	<0.04	0.65	<0.008
AUG												
06...	1030	Environmental	86	9.7	98	7.5	297	14.4	<0.10	<0.04	0.67	<0.008
SEP												
23...	0920	Environmental	87	9.2	92	7.6	300	14.1	E.05n	<0.04	0.66	<0.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	0.010	12k	6k	16k
08...	--	--	2k	18k	20k
09...	--	--	14k	8k	18k
09...	E.01	0.010	<2	16k	28k
JUN					
02...	--r	0.011	27	49	69
09...	<0.02	0.007	14k	15k	20
28...	<0.02	0.010	6k	26	33
JUL					
26...	<0.02	0.009	10k	18k	14k
AUG					
06...	<0.02	0.010	30	30	--e
SEP					
23...	E.01n	0.011	31	49	16k

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range
n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail
r -- Sample ruined in preparation

07066000 JACKS FORK AT EMINENCE, MO

LOCATION.--Lat 37°09'18", long 91°21'31", in SW ¼ NW ¼ sec.26, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, on right downstream bridge abutment on State Highway 19, 1.5 mi downstream from Mahans Creek, and 8.0 mi upstream from mouth.

DRAINAGE AREA.--398 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1311.

REVISED RECORDS.--WSP 787: 1928(M), 1934. WSP 877: 1938. WSP 927: Drainage area. WSP 1281: 1929. WDR MO-85-1: 1935(M), 1943(M), 1949(M), 1950(M), 1956(M), 1966(M), 1969(M), 1974(M), 1983(M).

GAGE.--Water-stage recorder. Datum of gage is 615.87 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1995, datum of gage 2 ft higher. Prior to Jan. 27, 1934, nonrecording gage at site 1,350 ft upstream at datum 2.11 ft higher; Jan. 27, 1934, to Jan. 10, 1935, nonrecording gage at site 75 ft downstream at datum 0.04 ft lower; Jan. 11, 1935, to July 9, 1964, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Water-discharge records rated good except for the period April 3 to Sept. 30 and estimated daily discharges, which are poor. National Weather Service gage-height and U.S.G.S. satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of 1895 and March 1904 reached a stage of about 27 ft, present site and datum, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	192	155	1,280	170	389	309	897	249	208	219	573
2	164	184	155	782	169	405	297	1,820	259	208	217	841
3	162	181	154	561	168	453	292	1,270	282	201	347	1,170
4	163	180	168	448	166	449	310	968	342	190	326	650
5	160	185	169	375	165	427	308	848	340	182	251	440
6	163	184	167	323	167	390	337	739	311	176	218	341
7	164	181	165	289	166	350	742	641	292	171	198	292
8	162	179	164	267	162	322	868	580	279	167	182	263
9	165	178	163	254	162	300	644	474	266	165	170	242
10	167	179	164	241	162	280	524	450	284	165	160	221
11	166	175	164	228	163	265	455	425	293	162	153	209
12	166	172	165	220	163	254	403	410	481	161	147	210
13	163	168	179	211	163	264	362	392	619	160	144	231
14	161	168	202	205	274	277	337	384	626	163	150	589
15	160	172	220	201	785	306	302	448	497	157	150	852
16	160	170	240	199	693	302	271	496	441	159	142	515
17	159	168	233	196	503	294	264	693	466	165	141	390
18	160	167	242	191	407	288	246	931	440	163	138	336
19	168	164	271	188	490	330	234	860	397	244	137	301
20	167	163	263	186	1,070	780	234	608	351	715	138	e260
21	165	161	248	184	839	1,250	278	705	334	373	136	e244
22	163	160	236	184	722	1,040	326	537	304	272	133	237
23	160	159	227	e181	802	787	333	433	282	230	129	234
24	158	160	238	e179	737	644	392	382	264	203	127	226
25	164	161	240	177	584	558	2,260	356	246	195	128	e210
26	164	160	220	173	500	497	2,690	331	245	180	126	e204
27	165	158	218	171	456	465	1,370	306	235	173	125	e208
28	166	158	213	171	420	440	1,000	287	221	168	126	e201
29	204	158	214	171	---	409	937	269	212	181	135	e191
30	196	157	266	171	---	359	972	272	214	258	250	e180
31	201	---	1,030	171	---	330	---	263	---	253	1,550	---
MEAN	167	170	231	283	408	449	610	596	336	212	216	369
MAX	204	192	1,030	1,280	1,070	1,250	2,690	1,820	626	715	1,550	1,170
MIN	158	157	154	171	162	254	234	263	212	157	125	180
IN.	0.48	0.48	0.67	0.82	1.07	1.30	1.71	1.73	0.94	0.61	0.63	1.03

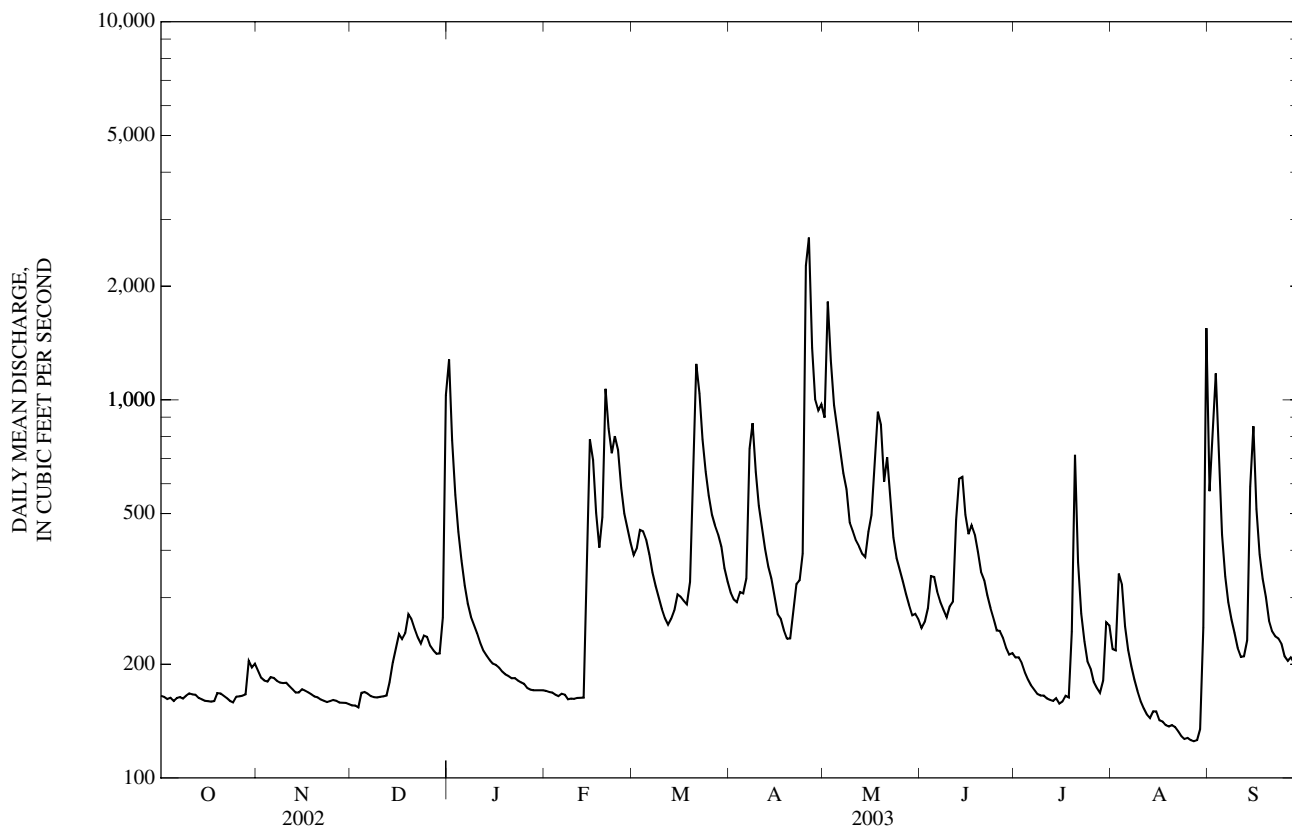
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2003, BY WATER YEAR (WY)

	225	408	446	467	561	716	840	748	459	259	207	209
MEAN	225	408	446	467	561	716	840	748	459	259	207	209
MAX	1,092	2,057	2,462	2,065	1,906	1,944	2,920	2,541	2,745	1,682	984	1,439
(WY)	(1985)	(1994)	(1983)	(1949)	(1985)	(1945)	(1927)	(2002)	(1928)	(1951)	(1927)	(1993)
MIN	76.5	98.1	96.9	89.8	120	139	200	129	109	84.8	82.6	73.1
(WY)	(1957)	(1955)	(1956)	(1956)	(1934)	(1956)	(2000)	(1936)	(1936)	(1934)	(1954)	(1956)

07066000 JACKS FORK AT EMINENCE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1922 - 2003	
ANNUAL MEAN	623		336		461	
HIGHEST ANNUAL MEAN					1,072	
LOWEST ANNUAL MEAN					154	
HIGHEST DAILY MEAN	17,700	May 8	2,690	Apr 26	31,800	Nov 15, 1993
LOWEST DAILY MEAN	123	Jan 22	125	Aug 27	67	Sep 16, 1956
ANNUAL SEVEN-DAY MINIMUM	125	Jan 16	128	Aug 22	70	Sep 16, 1956
MAXIMUM PEAK FLOW	---		5,260	Apr 25	58,500	Nov 15, 1993
MAXIMUM PEAK STAGE	---		7.68	Apr 25	17.82	Nov 15, 1993
INSTANTANEOUS LOW FLOW	---		124	Aug 24-29	64	Aug 28, 1936
ANNUAL RUNOFF (INCHES)	21.26		11.47		15.73	
10 PERCENT EXCEEDS	1,200		693		885	
50 PERCENT EXCEEDS	263		234		245	
90 PERCENT EXCEEDS	160		160		124	

e Estimated



07066000 JACKS FORK AT EMINENCE, MO—Continued

(Jacks Fork Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	1105	Environmental	161	9.8	99	7.9	331	14.6	E.09	<0.04	0.35	<0.008
08...	1106	Replicate	--	--	--	--	--	--	E.06	<0.04	0.34	E.005
08...	1510	Environmental	161	11.6	120	7.9	334	15.9	--	--	--	--
09...	0930	Environmental	164	8.5	87	7.8	330	15.3	--	--	--	--
09...	1435	Environmental	164	10.8	112	8.1	333	15.8	<0.10	<0.04	0.35	<0.008
JUN												
03...	0915	Environmental	270	8.8	92	7.6	282	15.8	0.10	<0.04	0.36	<0.008
09...	1630	Environmental	263	11.3	131	8.3	289	21.4	0.12	E.02	0.34	E.005
28...	1115	Environmental	185	9.7	107	8.0	323	19.3	E.05	<0.04	0.34	<0.008
JUL												
26...	1215	Environmental	169	9.2	104	8.3	312	20.5	E.08	<0.04	0.27	<0.008
AUG												
06...	1200	Environmental	226	--e	--	8.2	315	22.3	E.07n	<0.04	0.25	<0.008
SEP												
23...	1045	Environmental	201	8.9	94	7.8	320	17.0	E.06n	<0.04	0.31	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7 μ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	0.005	5k	8k	32k
08...	<0.02	0.005	--	--	--
08...	--	--	2k	2k	10k
09...	--	--	46	58	44
09...	<0.02	E.004	20k	23k	33k
JUN					
03...	--r	E.003	25k	42	52
09...	E.01	0.019	<1b	2k	3k
28...	<0.02	0.004	3k	18k	9k
JUL					
26...	<0.02	0.005	4k	13k	18k
AUG					
06...	<0.02	0.005	10k	33k	--e
SEP					
23...	<0.02	E.004n	21k	62	18k

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

b -- Value was extrapolated below
k -- Counts outside acceptable range
n -- Below the LDL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail
r -- Sample ruined in preparation

370905091204001 JACKS FORK ABOVE 2ND UNNAMED HOLLOW (SOUTH) BELOW EMINENCE, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°09'05", long 91°20'40", in SW 1/4 NW 1/4 sec.25, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, at Jacks Fork Campground and 0.9 mi downstream of Eminence.

DRAINAGE AREA.--406 mi².

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd, μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	0850	Environmental	161	8.7	87	7.8	333	14.3	E.07	<0.04	0.39	<0.008
08...	1345	Environmental	161	10.9	112	7.4	320	15.5	--	--	--	--
09...	0820	Environmental	164	8.1	195	7.5	323	15.3	--	--	--	--
09...	1200	Environmental	164	9.5	97	7.4	331	15.6	E.07	<0.04	0.41	<0.008
JUN												
03...	1100	Environmental	270	8.8	92	7.9	284	16.0	0.11	<0.04	0.36	<0.008
10...	1800	Environmental	263	10.4	119	7.9	296	20.6	0.12	<0.04	0.38	0.009
28...	1030	Environmental	185	9.3	103	7.6	322	19.0	E.05	<0.04	0.37	<0.008
JUL												
26...	0945	Environmental	169	8.1	89	7.8	322	19.6	E.06	<0.04	0.30	<0.008
AUG												
06...	0930	Environmental	226	7.3	86	7.8	326	22.1	E.09n	<0.04	0.27	<0.008
SEP												
23...	0830	Environmental	201	7.8	82	7.4	312	16.9	E.08n	<0.04	0.39	<0.008
23...	0831	Replicate	--	7.7	81	7.5	312	16.9	E.06n	<0.04	0.31	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7 μ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	0.007	78	100	40
08...	--	--	7k	23k	30k
09...	--	--	88	88	48
09...	E.01	0.009	28k	44	66
JUN					
03...	--r	0.007	18k	46	23k
10...	<0.02	0.014	300k	304	>240k
28...	<0.02	0.022	6k	20k	7k
JUL					
26...	<0.02	0.009	1k	54	27
AUG					
06...	<0.02	0.011	100	780	120
SEP					
23...	<0.02	0.006	41	47	29
23...	<0.02	0.005	--	--	--

Remark codes used in this table:

> -- Greater than
< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range
n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

371014091201301 JACKS FORK ABOVE LICK LOG HOLLOW BELOW EMINENCE, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'14", long 91°20'13", in SE ¼ SE ¼ NW ¼ sec.24, T.29 N., R.4 W., Shannon County, Hydrologic Unit 11010008, 2.4 mi downstream from Eminence.

DRAINAGE AREA.--409 mi².

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	0940	Environmental	168	8.9	89	7.9	334	14.5	E.10	<0.04	0.38	<0.008
08...	1410	Environmental	168	10.8	111	7.9	321	15.8	--	--	--	--
09...	0850	Environmental	171	8.3	85	7.7	324	15.5	--	--	--	--
09...	1230	Environmental	171	9.8	101	7.7	332	15.8	E.09	<0.04	0.39	<0.008
JUN												
03...	1315	Environmental	308	10.0	105	7.8	284	16.3	0.11	<0.04	0.35	<0.008
10...	1515	Environmental	296	9.8	111	8.1	294	19.9	0.13	E.02	0.39	E.007
28...	0815	Environmental	220	8.1	89	7.9	330	18.7	--	--	--	--
28...	0915	Environmental	220	8.4	93	8.0	331	18.7	--	--	--	--
28...	1015	Environmental	220	8.7	97	8.0	331	19.3	--	--	--	--
28...	1016	Replicate	--	8.7	97	8.1	331	19.2	--	--	--	--
28...	1115	Environmental	220	9.4	106	8.1	331	20.1	--	--	--	--
28...	1215	Environmental	220	9.4	107	8.2	330	20.8	--	--	--	--
28...	1315	Environmental	220	9.9	114	8.0	328	21.4	--	--	--	--
28...	1400	Environmental	220	10.6	124	8.1	327	22.0	--	--	--	--
28...	1401	Replicate	--	10.6	124	8.2	327	22.0	--	--	--	--
28...	1415	Environmental	220	10.1	117	8.3	322	21.9	E.06	<0.04	0.35	<0.008
28...	1500	Environmental	220	10.3	122	8.2	323	22.6	--	--	--	--
28...	1600	Environmental	220	10.7	128	8.1	321	22.9	--	--	--	--
28...	1700	Environmental	220	10.5	126	8.2	326	23.1	--	--	--	--
JUL												
26...	0820	Environmental	170	7.9	89	7.7	320	19.9	--	--	--	--
26...	0900	Environmental	170	8.9	100	7.7	320	19.9	--	--	--	--
26...	1000	Environmental	170	9.6	108	7.9	320	20.4	--	--	--	--
26...	1100	Environmental	170	10.4	119	7.9	316	21.0	--	--	--	--
26...	1200	Environmental	170	10.3	119	7.9	316	21.5	--	--	--	--
26...	1300	Environmental	170	10.4	121	7.9	316	21.7	--	--	--	--
26...	1400	Environmental	170	10.1	119	7.8	312	22.6	--	--	--	--
26...	1445	Environmental	170	10.5	125	8.4	314	23.0	0.10	<0.04	0.26	<0.008
26...	1500	Environmental	170	11.0	131	8.1	313	23.2	--	--	--	--
26...	1600	Environmental	170	10.9	131	8.1	312	23.4	--	--	--	--
26...	1700	Environmental	170	12.2	147	8.1	313	23.8	--	--	--	--
AUG												
05...	0830	Environmental	253	7.3	86	7.5	325	22.4	--	--	--	--
05...	0930	Environmental	253	7.8	92	7.9	325	22.5	--	--	--	--
05...	1030	Environmental	253	8.6	102	8.0	324	23.0	--	--	--	--
05...	1130	Environmental	253	8.7	105	8.0	325	23.4	--	--	--	--
05...	1230	Environmental	253	9.0	110	8.1	324	24.0	--	--	--	--
05...	1330	Environmental	253	9.2	112	7.8	324	24.2	--	--	--	--
05...	1430	Environmental	253	9.1	112	8.0	323	24.2	--	--	--	--
05...	1530	Environmental	253	9.1	111	8.0	323	24.0	--	--	--	--
05...	1630	Environmental	253	9.0	110	8.0	319	24.0	--	--	--	--
05...	1730	Environmental	253	9.1	111	8.0	320	24.3	--	--	--	--
06...	1500	Environmental	253	8.1	100	8.3	316	24.6	0.12	E.04n	0.25	<0.008
SEP												
23...	1315	Environmental	208	9.7	107	7.9	313	19.1	E.09n	<0.04	0.31	<0.008

371014091201301 JACKS FORK ABOVE LICK LOG HOLLOW BELOW EMINENCE, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7µ MF col/ 100 mL (31625)	Fecal streptococci KF MF, col/ 100 mL (31673)
OCT					
08...	<0.02	0.005	120	137k	88
08...	--	--	160k	380	173
09...	--	--	86	90	48
09...	<0.02	0.007	420	560	510
JUN					
03...	--r	0.007	15k	28k	31k
10...	<0.02	0.022	>800k	>600k	1,920k
28...	--	--	33	84	28
28...	--	--	15k	40	12k
28...	--	--	18k	43	18k
28...	--	--	13k	35	17k
28...	--	--	8k	45	14k
28...	--	--	7k	24	14k
28...	--	--	5k	28	6k
28...	--	--	45	81k	9k
28...	--	--	10k	25	15k
28...	<0.02	0.006	26	32	4k
28...	--	--	4k	20	11k
28...	--	--	2k	21	8k
28...	--	--	2k	15k	15k
JUL					
26...	--	--	23	50	54
26...	--	--	14k	42	34
26...	--	--	9k	38	31
26...	--	--	2k	15k	12k
26...	--	--	2k	24	14k
26...	--	--	6k	15k	22
26...	--	--	<1	21k	7k
26...	<0.02	0.009	6k	26	13k
26...	--	--	4k	14k	17k
26...	--	--	3k	29	16k
26...	--	--	7k	34	22
AUG					
06...	--	--	80k	108	100
06...	--	--	210	80	293
06...	--	--	430k	100	410
06...	--	--	220	720	240
06...	--	--	160	160	176
06...	--	--	170	184	108
06...	--	--	210	196	112
06...	0.02	0.012	84	350k	--e
06...	--	--	110	206	71
06...	--	--	590	1,200	346
06...	--	--	480	675	243
SEP					
23...	<0.02	0.005	6k	24	<1

Remark codes used in this table:

> -- Greater than

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail

r -- Sample ruined in preparation

WHITE RIVER BASIN

07066110 JACKS FORK ABOVE TWO RIVERS, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'22", long 91°18'00", in SW ¼ NE ¼ NW ¼ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at the Shawnee Campground, 4.5 mi downstream from the Eminence Wastewater Treatment Plant.

DRAINAGE AREA.--425 mi².

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

REMARKS.--Ozark National Scenic Riverways station since April 1973 and an Ambient Water-Quality Monitoring Network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 19...	1500	Environmental	266	12.6	119	8.4	340	12.1	190	39.0	23.3	0.87
JAN 06...	1100	Environmental	496	11.5	97	7.7	312	7.7	--	--	--	--
MAR 11...	1530	Environmental	398	13.1	121	8.2	289	10.7	--	--	--	--
MAY 19...	1200	Environmental	1,170	9.8	105	8.0	271	17.5	150	32.1	18.1	1.02
JUL 07...	1120	Environmental	271	8.7	106	7.6	318	23.4	--	--	--	--
SEP 05...	0930	Environmental	761	7.8	85	7.5	306	19.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 19...	1.55	179	180	210	5	2.52	<0.2	2.7	189	<10	<0.10	<0.04	0.28
JAN 06...	--	166	166	203	<1	--	--	--	--	<10	<0.10	<0.04	0.50
MAR 11...	--	148	148	181	<1	--	--	--	--	<10	E.06	<0.04	0.41
MAY 19...	1.34	146	146	178	<1	2.41	<0.2	3.5	160	<10	E.08	<0.04	0.29
JUL 07...	--	168	170	208	<1	--	--	--	--	<10	E.08n	<0.04	0.33
SEP 05...	--	143	143	174	<1	--	--	--	--	<10	0.18	<0.04	0.35

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, unfltrd recoverable, µg/L (01105)	Arsenic, water, fltrd, µg/L (01000)	Cadmium, water, fltrd, µg/L (01025)	Cadmium, water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 19...	<0.008	<0.02	<0.04	<0.04	<1b	1k	9k	<2	6	E.2	<0.04	<0.2	8
JAN 06...	<0.008	<0.02	<0.04	<0.04	1k	23	30	--	--	--	--	--	--
MAR 11...	0.009	<0.02	E.03	<0.04	<1b	1k	1k	--	--	--	--	--	--
MAY 19...	E.004	<0.09	<0.04	<0.04	51	<1b	66	2	52	E.2	<0.04	<0.2	<6
JUL 07...	<0.008	<0.02	<0.04	<0.04	16k	30	12k	--	--	--	--	--	--
SEP 05...	<0.008	<0.02	<0.04	<0.04	40	20	100	--	--	--	--	--	--

07066110 JACKS FORK ABOVE TWO RIVERS, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 19...	E6	<0.08	<1	E1.8b	<0.02	<0.5	M	E1
JAN 06...	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--
MAY 19...	<10	E.04	<1	3.0	<0.02	<0.5	M	E1
JUL 07...	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

371026091183301 JACKS FORK ABOVE POWELL SPRING ABOVE TWO RIVERS, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'26", long 91°18'33", in SW ¼ NE ¼ NE ¼ sec.19, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 3.1 mi upstream from Two Rivers.

DRAINAGE AREA.--412 mi²

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	1015	Environmental	168	9.2	92	7.6	337	14.8	E.06	<0.04	0.34	<0.008
08...	1030	Blank	--	--	--	--	--	--	E.05	<0.04	<0.06	<0.008
08...	1440	Environmental	168	11.6	119	8.1	322	15.9	--	--	--	--
09...	0910	Environmental	171	8.4	86	7.8	327	15.6	--	--	--	--
09...	1310	Environmental	171	10.0	103	7.8	335	15.9	0.11	<0.04	0.45	<0.008
JUN												
03...	1430	Environmental	308	10.5	110	8.0	286	16.4	0.11	<0.04	0.34	<0.008
10...	1630	Environmental	296	10.3	118	8.2	295	20.3	0.11	<0.04	0.32	<0.008
28...	1515	Environmental	220	10.7	128	8.4	322	23.4	E.06	<0.04	0.29	E.004
28...	1516	Replicate	--	--	--	--	--	--	E.07	<0.04	0.30	E.004
JUL												
26...	1530	Environmental	170	11.0	133	8.6	315	23.8	0.11	<0.04	0.23	<0.008
AUG												
06...	1545	Blank	--	--	--	--	--	--	<0.10	<0.04	<0.06	<0.008
06...	1600	Environmental	253	8.3	104	8.3	318	25.4	0.12	<0.04	0.23	<0.008
SEP												
23...	1440	Blank	--	--	--	--	--	--	<0.10	<0.04	<0.06	<0.008
23...	1445	Environmental	208	10.1	113	8.3	314	19.9	E.06n	<0.04	0.28	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC, 0.7µ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	E.004	72	76	27k
08...	<0.02	<0.004	--	--	--
08...	--	--	52	106	64
09...	--	--	160	147	46
09...	E.01	0.006	52	112	66
JUN					
03...	--r	0.004	7k	17k	21k
10...	<0.02	E.003	>320k	>240k	>400k
28...	<0.02	0.007	2k	3k	3k
28...	<0.02	0.006	--	--	--
JUL					
26...	<0.02	0.008	3k	7k	6k
AUG					
06...	<0.02	<0.004	--	--	--
06...	<0.02	0.013	12k	143k	--e
SEP					
23...	<0.02	<0.004	--	--	--
23...	<0.02	0.004	2k	14k	4k

Remark codes used in this table:

> -- Greater than
< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range
n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail
r -- Sample ruined in preparation

371019091180101 SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'19", long 91°18'01", in SW ¼ NE ¼ NW ¼ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at Shawnee Creek Campground and 2.4 mi upstream from Two Rivers.

DRAINAGE AREA.--20.0 mi².

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	1125	Environmental	5.5	8.1	83	8.2	507	15.7	<0.10	<0.04	0.16	<0.008
08...	1540	Environmental	5.5	9.2	96	8.1	516	16.7	--	--	--	--
09...	0945	Environmental	5.5	7.7	80	8.1	521	16.1	--	--	--	--
09...	1330	Environmental	5.5	8.7	92	8.0	519	16.6	<0.10	<0.04	0.15	<0.008
JUN												
04...	1200	Environmental	8.4	9.7	102	8.0	454	16.5	0.13	<0.04	0.26	<0.008
11...	1030	Environmental	13	7.6	85	7.9	424	19.1	0.20	<0.04	0.32	<0.008
28...	1215	Environmental	6.1	9.1	105	7.7	503	21.5	E.06	<0.04	0.26	<0.008
JUL												
26...	1115	Environmental	3.0	7.5	87	7.9	524	22.0	E.07	<0.04	0.24	<0.008
AUG												
06...	1130	Environmental	3.6	7.2	88	7.9	517	23.7	<0.10	<0.04	0.27	<0.008
SEP												
23...	1000	Environmental	3.6	7.1	76	7.5	514	18.0	E.08n	<0.04	0.18	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coli-form, M-FC 0.7μ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	0.009	76k	112k	140
08...	--	--	140	140	200
09...	--	--	36k	48k	92k
09...	<0.02	0.007	68k	40k	36k
JUN					
04...	--r	0.004	6k	34k	26k
11...	<0.02	0.012	680	420k	700
28...	<0.02	0.007	92	108	54
JUL					
26...	<0.02	0.008	17k	58	182
AUG					
06...	<0.02	0.010	980	5,860k	303
SEP					
23...	<0.02	0.007	35k	44	76

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range
n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

WHITE RIVER BASIN

371020091174101 JACKS FORK ABOVE LITTLE SHAWNEE CREEK ABOVE TWO RIVERS, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'20", long 91°17'41", in SW ¼ NW ¼ NE ¼ sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, just below Shawnee Creek Campground and 2.2 mi upstream from Two Rivers.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	1110	Environmental	168	8.6	87	8.1	340	15.1	<0.10	<0.04	0.33	<0.008
08...	1530	Environmental	168	11.4	118	8.2	343	16.1	--	--	--	--
09...	0935	Environmental	168	8.4	86	8.1	338	15.8	--	--	--	--
09...	1320	Environmental	168	9.9	103	8.0	343	16.0	0.14	<0.04	0.33	<0.008
JUN												
04...	1245	Environmental	344	10.6	112	8.3	292	16.9	0.12	<0.04	0.29	<0.008
11...	1100	Environmental	310	8.4	94	7.9	317	19.0	0.12	<0.04	0.35	<0.008
28...	1245	Environmental	209	10.6	122	8.0	331	21.3	E.07	<0.04	0.29	E.004
28...	1300	Blank	--	--	--	--	--	--	<0.10	<0.04	<0.06	<0.008
JUL												
26...	1230	Environmental	185	9.4	110	8.1	329	22.4	E.08n	<0.04	0.24	<0.008
26...	1330	Blank	--	--	--	--	--	--	<0.10	<0.04	<0.06	<0.008
AUG												
06...	1330	Environmental	229	9.0	110	8.0	332	24.2	0.10	<0.04	0.23	<0.008
06...	1331	Replicate	--	--	--	--	--	--	E.08n	<0.04	0.23	<0.008
SEP												
23...	1110	Environmental	210	8.0	86	7.5	319	18.0	0.10	<0.04	0.28	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7µ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	0.005	77k	88	43k
08...	--	--	51k	108	43k
09...	--	--	83k	96	34k
09...	<0.02	0.005	63k	84	46k
JUN					
04...	--r	0.007	5k	10k	4k
11...	<0.02	0.005	>320k	>240k	340
28...	<0.02	0.006	4k	10k	9k
28...	<0.02	<0.004	--	--	--
JUL					
26...	<0.02	0.006	1k	20	12k
26...	<0.02	E.002n	--	--	--
AUG					
06...	<0.02	0.009	27k	132	23k
06...	<0.02	0.008	--	--	--
SEP					
23...	<0.02	0.004	16k	27	14k

Remark codes used in this table:

> -- Greater than

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

371054091173501 JACKS FORK BELOW 3RD UNNAMED HOLLOW (NORTH) ABOVE TWO RIVERS, MO
(Jacks Fork Water-Quality Monitoring Network)

LOCATION.--Lat 37°10'54", long 91°17'35", in NE ¼ NW ¼ SE ¼ sec.17, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 1.4 mi upstream from Two Rivers.

DRAINAGE AREA.--444 mi².

PERIOD OF RECORD.--May 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT												
08...	1000	Environmental	167	8.2	83	8.3	347	14.9	<0.10	<0.04	0.33	<0.008
08...	1450	Environmental	167	10.7	110	8.1	349	16.0	--	--	--	--
09...	0845	Environmental	167	8.1	83	8.1	348	15.8	--	--	--	--
09...	1145	Environmental	167	8.8	91	8.1	350	15.9	E.05	<0.04	0.33	<0.008
09...	1146	Replicate	--	--	--	--	--	--	E.05	<0.04	0.33	<0.008
JUN												
04...	1015	Environmental	344	9.5	97	7.9	297	15.4	E.09	<0.04	0.32	<0.008
04...	1030	Replicate	--	--	--	--	--	--	E.07	<0.04	0.31	<0.008
28...	1515	Environmental	209	11.2	133	7.9	332	22.7	<0.10	<0.04	0.28	<0.008
JUL												
26...	1445	Environmental	185	9.9	118	8.1	332	23.5	E.08	<0.04	0.22	<0.008
26...	1446	Replicate	--	--	--	--	--	--	0.11	<0.04	0.22	<0.008
AUG												
06...	1600	Environmental	229	9.0	111	8.0	335	24.9	E.08n	<0.04	0.26	<0.008
SEP												
23...	1300	Environmental	210	9.1	100	7.4	331	18.9	E.09n	<0.04	0.27	<0.008

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7µ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)
OCT					
08...	<0.02	0.004	42k	60	44
08...	--	--	40	52	38k
09...	--	--	94	84	74
09...	<0.02	0.005	94	90	42
09...	<0.02	0.005	--	--	--
JUN					
04...	--r	E.003	13k	29k	14k
04...	--r	E.002	--	--	--
28...	<0.02	0.006	3k	5k	6k
JUL					
26...	<0.02	0.007	<1	10k	6k
26...	<0.02	0.007	--	--	--
AUG					
06...	<0.02	0.009	40k	104	27k
SEP					
23...	<0.02	0.005	4k	22	10k

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

r -- Sample ruined in preparation

WHITE RIVER BASIN

07067000 CURRENT RIVER AT VAN BUREN, MO

LOCATION.--Lat 36°59'29", long 91°00'53", in NE 1/4 NW 1/4 sec.25, T.27 N., R.1 W., Carter County, Hydrologic Unit 11010008, near right bank on downstream side of bridge pier on U.S. Highway 60 in Van Buren, 0.4 mi downstream from Pike Creek, 4.7 mi upstream from Big Creek, and at mile 90.4.

DRAINAGE AREA.--1,667 mi².

PERIOD OF RECORD.--October 1912 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938. WSP 897: 1939. WSP 927: Drainage area. WSP 1281: 1929.

GAGE.--Water-stage recorder. Datum of gage is 442.78 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 1, 1926, nonrecording gage at site 100 ft downstream at datum 3.00 ft higher; Sept. 1, 1926, to Oct. 19, 1934, nonrecording gage and Oct. 20, 1934, to Sept. 30, 1939, water-stage recorder, at present site and datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1904, reached a stage of 29.0 ft, present datum, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

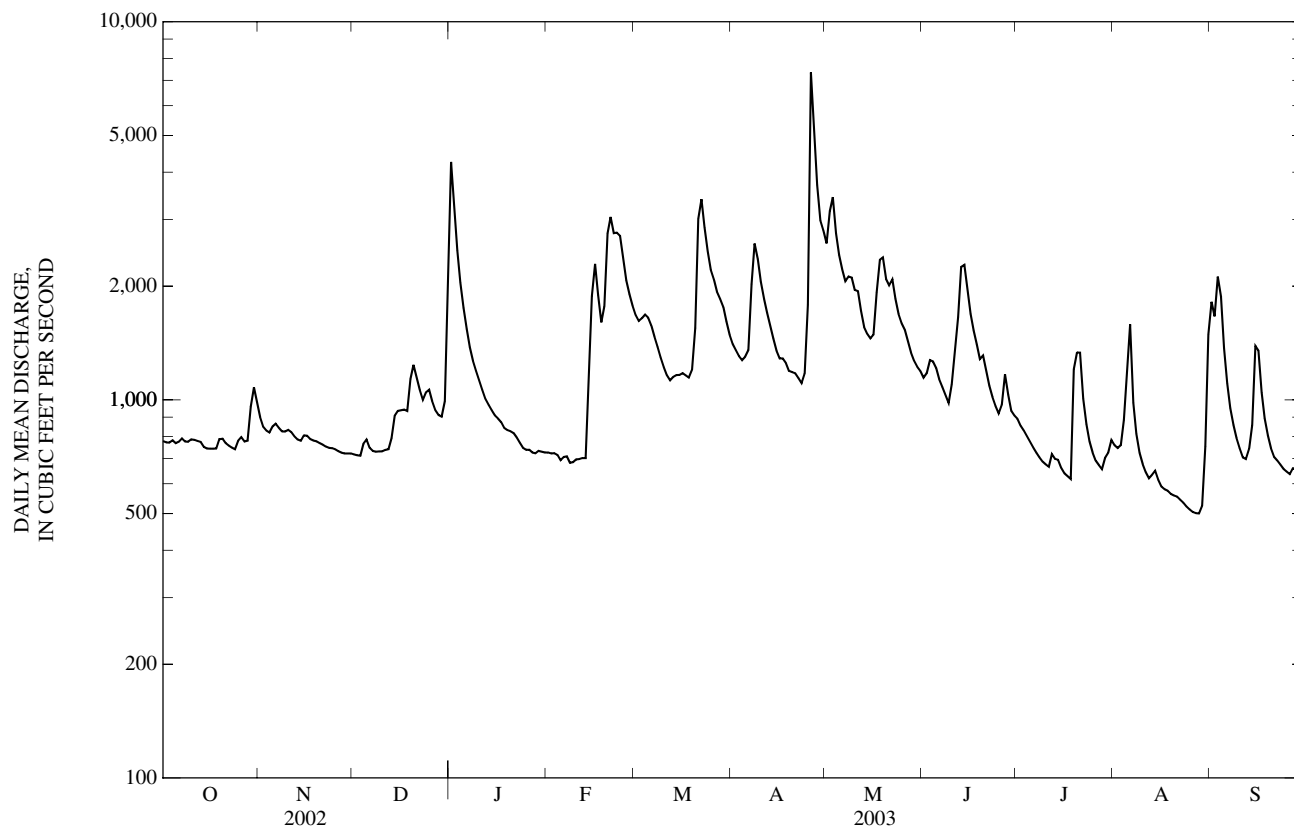
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	778	900	717	4,260	726	1,670	1,410	2,590	1,150	891	758	1,820
2	772	849	714	3,240	722	1,620	1,350	3,150	1,180	854	746	1,660
3	771	829	712	2,480	723	1,640	1,310	3,440	1,270	830	759	2,120
4	782	820	765	2,040	715	1,680	1,270	2,760	1,260	802	885	1,870
5	768	850	785	1,750	693	1,650	1,300	2,420	1,210	776	1,230	1,370
6	775	865	747	1,540	706	1,570	1,350	2,210	1,130	749	1,580	1,100
7	791	843	733	1,380	709	1,470	2,020	2,060	1,080	725	983	950
8	776	825	729	1,270	682	1,380	2,590	2,120	1,030	705	813	858
9	775	825	731	1,190	685	1,290	2,360	2,110	981	686	724	793
10	786	833	731	1,130	696	1,220	2,050	1,950	1,100	675	676	744
11	784	821	737	1,060	698	1,160	1,850	1,940	1,330	665	644	704
12	778	800	741	1,000	702	1,130	1,700	1,720	1,650	719	620	697
13	774	785	793	969	702	1,150	1,570	1,560	2,250	698	633	742
14	751	779	908	939	1,080	1,160	1,450	1,500	2,280	694	650	857
15	743	805	935	910	1,880	1,160	1,350	1,450	1,980	660	615	1,390
16	743	804	938	893	2,290	1,180	1,290	1,490	1,690	638	590	1,350
17	743	787	942	873	1,890	1,160	1,290	1,920	1,530	628	580	1,050
18	744	780	934	843	1,600	1,140	1,250	2,350	1,400	617	575	893
19	787	777	1,130	832	1,770	1,200	1,190	2,380	1,280	1,200	564	805
20	789	769	1,240	826	2,760	1,550	1,180	2,090	1,310	1,330	558	743
21	769	761	1,140	817	3,050	3,010	1,180	2,010	1,190	1,330	555	707
22	757	752	1,060	795	2,760	3,390	1,140	2,080	1,090	1,010	544	692
23	747	746	1,000	770	2,770	2,860	1,110	1,850	1,020	862	534	674
24	740	745	1,050	746	2,710	2,470	1,170	1,690	964	777	523	657
25	780	740	1,060	738	2,360	2,210	1,780	1,590	920	725	513	646
26	797	732	992	738	2,070	2,080	7,340	1,530	969	690	505	636
27	776	725	939	726	1,900	1,930	5,130	1,430	1,170	672	501	659
28	780	721	911	722	1,780	1,850	3,700	1,330	1,030	656	501	653
29	959	722	903	733	---	1,760	2,980	1,270	936	704	524	630
30	1,080	722	992	729	---	1,610	2,810	1,220	909	725	753	629
31	990	---	2,220	725	---	1,490	---	1,190	---	783	1,490	---
MEAN	793	790	933	1,215	1,494	1,672	1,982	1,948	1,276	790	714	970
MAX	1,080	900	2,220	4,260	3,050	3,390	7,340	3,440	2,280	1,330	1,580	2,120
MIN	740	721	712	722	682	1,130	1,110	1,190	909	617	501	629
IN.	0.55	0.53	0.65	0.84	0.93	1.16	1.33	1.35	0.85	0.55	0.49	0.65

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1,088	1,699	1,897	1,985	2,257	2,827	3,399	3,110	2,108	1,319	1,088	1,029
MAX	4,087	7,171	10,740	7,357	6,764	7,148	11,730	11,150	9,761	6,465	3,581	3,860
(WY)	(1985)	(1994)	(1983)	(1950)	(1985)	(1945)	(1927)	(2002)	(1928)	(1951)	(1927)	(1993)
MIN	492	573	535	538	658	778	805	679	628	575	532	495
(WY)	(1957)	(1955)	(1956)	(1956)	(1934)	(1941)	(1956)	(1936)	(1936)	(1936)	(1954)	(1956)

07067000 CURRENT RIVER AT VAN BUREN, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	2,696		1,212		1,980	
HIGHEST ANNUAL MEAN					4,811	
LOWEST ANNUAL MEAN					799	
HIGHEST DAILY MEAN	53,100	May 9	7,340	Apr 26	72,000	Nov 15, 1993
LOWEST DAILY MEAN	712	Dec 3	501	Aug 27,28	476	Oct 8, 1956
ANNUAL SEVEN-DAY MINIMUM	719	Nov 27	514	Aug 23	479	Oct 6, 1956
MAXIMUM PEAK FLOW	---		8,800	Apr 26	125,000	Aug 21, 1915
MAXIMUM PEAK STAGE	---		7.09	Apr 26	27.39	Nov 15, 1993
INSTANTANEOUS LOW FLOW	---		499	Aug 26-29	473	Oct 7, 1956
ANNUAL RUNOFF (INCHES)	21.96		9.87		16.14	
10 PERCENT EXCEEDS	5,360		2,100		3,720	
50 PERCENT EXCEEDS	1,220		936		1,250	
90 PERCENT EXCEEDS	774		680		692	



LOCATION.--Lat 36°57'05", long 90°59'36", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.26 N., R.1 E., Carter County, Hydrologic Unit 11010008, on bridge 600 ft downstream from spring outlet, 0.4 mi upstream from Current River, and 3.5 mi southeast of Van Buren.

PERIOD OF RECORD.--October 1921 to September 1996, Feb. 8, 2000 to current year. Prior to Oct. 1, 1923, published as "near Chicopee". Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Gage height record furnished by the National Park Service. Datum of gage is 429.08 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 19, 1971, nonrecording gage; prior to Oct. 1, 1934, at datum 1.0 ft higher. Water-stage recorder Feb. 19, 1971 to March 15, 1978, at present datum; March 1978 to September 1996, nonrecording gage.

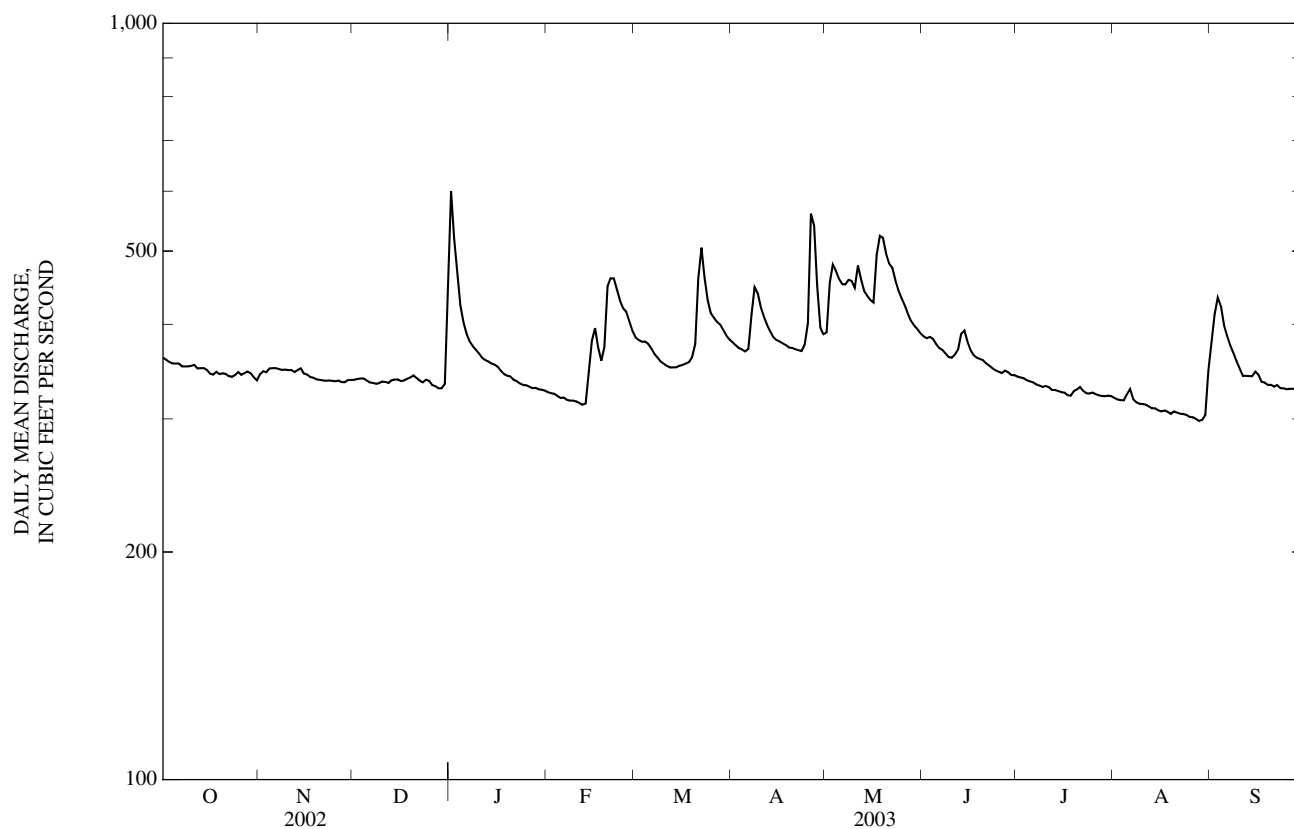
REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	344	338	e600	325	384	379	390	386	341	320	381
2	359	347	339	e520	324	381	375	e454	383	340	318	412
3	357	346	339	466	324	379	372	e480	385	340	318	434
4	355	350	339	424	322	380	370	471	383	337	317	422
5	355	350	337	402	320	377	368	459	377	336	323	399
6	355	350	335	388	320	372	371	452	372	335	329	386
7	352	349	335	380	318	365	413	452	370	333	319	375
8	352	348	334	374	317	361	448	458	366	332	315	367
9	352	349	334	370	317	357	440	457	362	331	314	358
10	352	348	336	366	316	355	421	447	361	331	314	350
11	354	348	336	361	315	353	409	478	365	330	313	342
12	350	346	335	359	313	351	400	459	371	328	311	342
13	350	348	337	357	314	351	391	443	389	328	310	342
14	350	350	338	355	345	351	385	436	392	326	310	342
15	348	344	338	354	380	353	381	431	380	325	308	346
16	344	343	337	351	395	353	379	427	370	325	307	343
17	343	341	337	347	373	355	378	494	364	322	308	336
18	346	340	339	344	358	356	376	524	361	322	307	335
19	344	338	340	342	373	362	373	521	360	326	305	333
20	345	338	343	341	449	377	372	496	358	328	307	333
21	344	337	340	338	e460	460	371	481	355	331	306	331
22	342	337	337	336	e460	505	370	475	353	327	305	332
23	341	337	335	334	e445	461	369	457	350	324	304	329
24	343	337	338	333	e430	430	376	443	348	324	304	329
25	346	336	337	332	e420	414	401	433	346	325	302	328
26	343	337	332	331	416	408	e560	424	345	323	301	329
27	345	335	331	329	403	403	e540	413	347	322	300	329
28	346	335	329	330	392	400	e450	404	346	322	298	329
29	345	338	329	328	---	393	396	398	343	321	299	329
30	340	338	333	328	---	386	388	394	343	322	304	328
31	337	---	449	327	---	382	---	389	---	321	347	---
MEAN	348	343	340	369	366	384	401	450	364	328	311	352
MAX	361	350	449	600	460	505	560	524	392	341	347	434
MIN	337	335	329	327	313	351	368	389	343	321	298	328
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)												
MEAN	344	387	413	439	462	519	574	561	484	416	377	353
MAX	599	769	1,070	828	823	836	902	944	950	772	702	525
(WY)	(1950)	(1986)	(1983)	(1937)	(1949)							

07067500 BIG SPRING NEAR VAN BUREN, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	506		363		445	
HIGHEST ANNUAL MEAN					648	
LOWEST ANNUAL MEAN					289	
HIGHEST DAILY MEAN	1,100	May 9	600	Jan 1	e2,000	Dec 3, 1982
LOWEST DAILY MEAN	313	Jan 15	298	Aug 28	236	Oct 6, 1956
ANNUAL SEVEN-DAY MINIMUM	324	Jan 15	301	Aug 23	238	Oct 1, 1956
10 PERCENT EXCEEDS	800		438		689	
50 PERCENT EXCEEDS	442		347		394	
90 PERCENT EXCEEDS	337		320		290	

e Estimated



WHITE RIVER BASIN

07067500 BIG SPRING NEAR VAN BUREN, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

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

REMARKS.--Ozark National Scenic Riverways station from April 1975 to 1996, Ambient Water-Quality Monitoring Network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

				Instantaneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
Date	Time	Sample type											
DEC 02...	1215	Environmental		339	8.2	82	7.3	346	14.5	--	--	--	--
MAR 11...	1200	Blank		--	--	--	--	--	--	--	E.01	<0.008	<0.10
11...	1215	Blank		--	--	--	--	--	--	--	<0.01	<0.008	<0.10
11...	1230	Environmental		353	8.8	87	7.5	294	14.4	160	33.8	18.9	0.70
11...	1231	Replicate		--	8.8	87	7.5	294	14.3	160	33.1	19.4	0.65
MAY 19...	1430	Environmental		521	9.3	93	7.1	277	14.4	--	--	--	--
AUG 20...	0915	Blank		--	--	--	--	--	--	--	E.01n	<0.008	<0.16
20...	0930	Environmental		307	9.6	96	7.1	344	14.7	190	39.9	22.3	0.75
													</

07067500 BIG SPRING NEAR VAN BUREN, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
DEC 02...	--	--	--	--	--	--	--	--
MAR 11...	<10	0.18	<1	<2.0	<0.02	<0.5	<1	3
11...	<10	E.07	<1	<2.0	<0.02	<0.5	<1	<2
11...	<10	0.09	<1	<2.0	<0.02	E.3	M	<2
11...	<10	E.08	<1	<2.0	<0.02	<0.5	1	E2
MAY 19...		--	--	--	--	--	--	--
AUG 20...	<8	<0.08	<0.06	<0.4	<0.02	<0.5	<1	<2
20...	<8	<0.08	M	E.2n	<0.02	<0.5	1	E2n

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

WHITE RIVER BASIN

07068000 CURRENT RIVER AT DONIPHAN, MO

LOCATION.--Lat 36°37'19", long 90°50'51", in NW ¼ NW ¼ sec.27, T.23 N., R.2 E., Ripley County, Hydrologic Unit 11010008, on right bank 0.5 mi upstream from U.S. Highway 160, 1.0 mi west of Doniphan, 2.5 mi upstream from Briar Creek, and at mile 51.3.

DRAINAGE AREA.--2,038 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1918 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1937-38(M). WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 321.21 ft above National Geodetic Vertical Datum of 1929. Prior to July 3, 1936, nonrecording gages at several sites 0.5 mi downstream at various datums. July 1936 to Sept. 30, 1971, datum was 1.00 ft higher.

REMARKS.--Water-discharge records good. National Weather Service gage-height and U.S. Army Corps of Engineers satellite telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1904 reached a stage of 25.9 ft, from floodmarks, present site and datum, discharge, 130,000 ft³/s, from rating curve extended above 60,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	1,580	1,300	5,610	1,340	2,640	2,130	3,380	2,000	1,620	1,450	2,360
2	1,540	1,520	1,300	5,310	1,330	2,530	2,070	3,320	2,000	1,590	1,460	3,200
3	1,530	1,490	1,290	4,030	1,340	2,480	2,010	4,320	2,050	1,550	1,460	2,700
4	1,540	1,460	1,340	3,320	1,330	2,490	1,980	3,890	2,050	1,530	1,470	2,910
5	1,530	1,500	1,350	2,850	1,320	2,490	1,960	3,650	2,010	1,510	1,550	2,370
6	1,530	1,490	1,340	2,530	1,330	2,430	2,000	3,520	1,950	1,480	2,090	1,990
7	1,540	1,480	1,320	2,300	1,330	2,330	2,290	3,300	1,880	1,460	1,930	1,780
8	1,540	1,460	1,310	2,150	1,310	2,210	2,940	3,100	1,840	1,440	1,590	1,660
9	1,530	1,450	1,320	2,020	1,310	2,110	3,200	3,130	1,790	1,420	1,470	1,580
10	1,540	1,450	1,320	1,930	1,310	2,020	2,910	2,970	1,760	1,410	1,400	1,520
11	1,520	1,440	1,330	1,840	1,310	1,940	2,660	3,300	2,040	1,400	1,360	1,480
12	1,520	1,420	1,330	1,760	1,320	1,890	2,480	3,160	2,100	1,410	1,340	1,460
13	1,500	1,400	1,390	1,700	1,320	1,870	2,330	2,810	2,560	1,410	1,330	1,510
14	1,490	1,380	1,440	1,650	1,600	1,870	2,200	2,620	2,930	1,410	1,360	1,550
15	1,470	1,400	1,510	1,610	2,200	1,860	2,090	2,520	2,840	1,390	1,340	1,590
16	1,460	1,390	1,520	1,580	2,850	1,860	2,010	2,470	2,540	1,370	1,310	2,110
17	1,460	1,380	1,530	1,550	2,960	1,860	1,980	3,280	2,300	1,360	1,300	1,860
18	1,450	1,370	1,630	1,520	2,550	1,850	1,950	4,040	2,180	1,350	1,290	1,670
19	1,480	1,360	2,050	1,490	2,530	1,900	1,900	3,950	2,050	1,550	1,290	1,550
20	1,490	1,350	2,040	1,480	3,180	2,010	1,860	3,620	1,970	1,780	1,280	1,480
21	1,470	1,340	1,960	1,460	4,060	2,700	1,830	3,250	1,970	1,980	1,270	1,440
22	1,450	1,330	1,800	1,440	4,080	3,950	1,800	3,200	1,850	1,800	1,260	1,410
23	1,440	1,330	1,710	1,410	4,200	3,820	1,760	3,040	1,770	1,610	1,260	1,380
24	1,420	1,320	1,710	1,390	4,050	3,370	1,810	2,790	1,710	1,500	1,240	1,360
25	1,480	1,320	1,730	1,370	3,690	3,060	1,940	2,640	1,670	1,440	1,230	1,340
26	1,470	1,310	1,700	1,360	3,270	2,870	4,840	2,540	1,670	1,400	1,220	1,330
27	1,450	1,310	1,630	1,360	2,990	2,720	7,360	2,420	1,730	1,370	1,210	1,320
28	1,440	1,310	1,580	1,350	2,800	2,610	5,080	2,290	1,800	1,360	1,210	1,320
29	1,540	1,310	1,540	1,350	---	2,510	4,000	2,180	1,680	1,540	1,210	1,310
30	1,630	1,300	e1,920	1,340	---	2,370	3,460	2,110	1,640	1,430	1,410	1,290
31	1,670	---	e5,500	1,340	---	2,230	---	2,050	---	1,430	1,530	---
MEAN	1,505	1,398	1,669	2,045	2,293	2,415	2,628	3,060	2,011	1,494	1,391	1,728
MAX	1,670	1,580	5,500	5,610	4,200	3,950	7,360	4,320	2,930	1,980	2,090	3,200
MIN	1,420	1,300	1,290	1,340	1,310	1,850	1,760	2,050	1,640	1,350	1,210	1,290
IN.	0.85	0.77	0.94	1.16	1.17	1.37	1.44	1.73	1.10	0.85	0.79	0.95

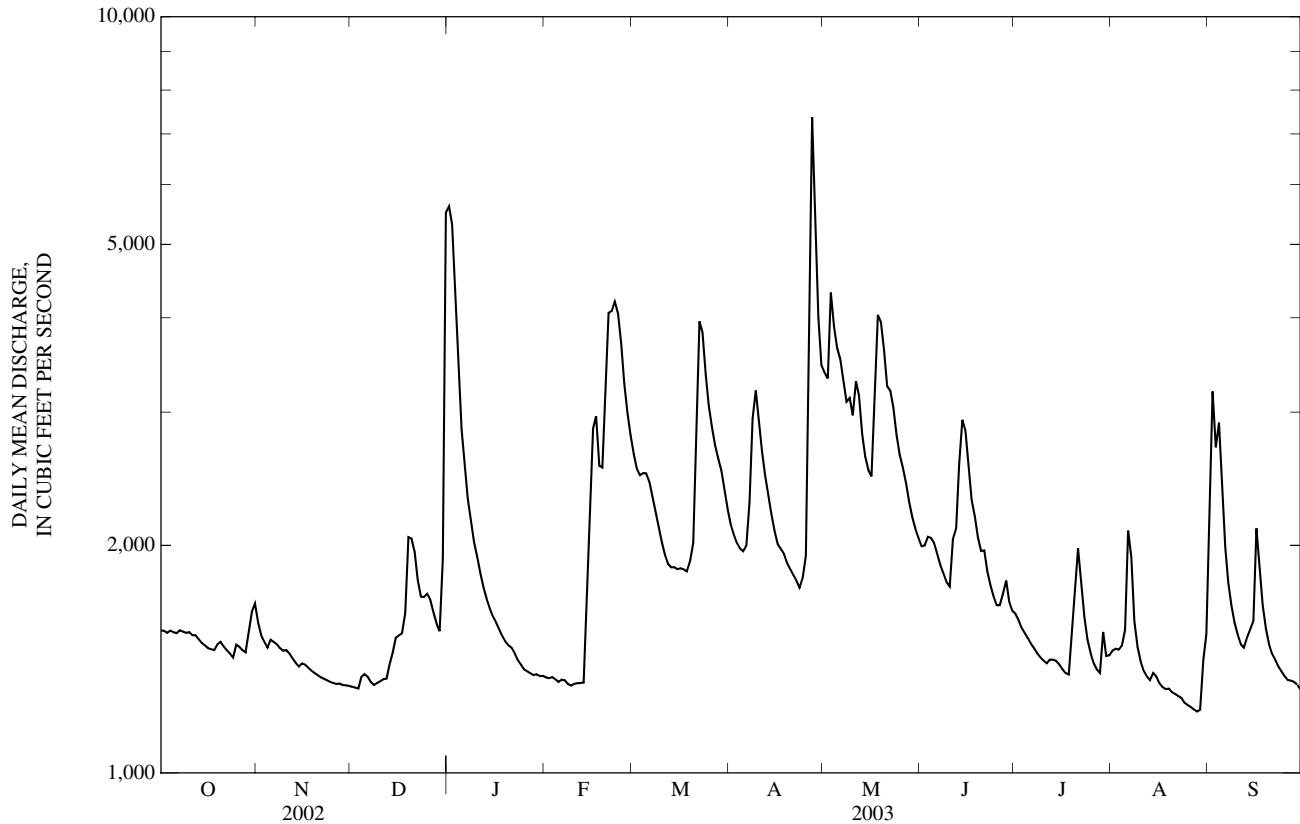
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2003, BY WATER YEAR (WY)

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932
MEAN	1,636	2,366	2,675	2,844	3,117	3,855	4,583	4,205	2,958	1,975	1,677	1,579
MAX	4,596	8,514	16,210	9,054	7,971	9,260	16,140	14,160	12,610	7,676	5,001	4,547
(WY)	(1985)	(1994)	(1983)	(1949)	(1985)	(1935)	(1927)	(2002)	(1928)	(1951)	(1927)	(1993)
MIN	872	927	950	917	1,122	1,218	1,476	1,183	1,075	959	933	903
(WY)	(1957)	(1955)	(1956)	(1956)	(1934)	(1941)	(1956)	(1936)	(1936)	(1934)	(2001)	(1954)

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1921 - 2003	
ANNUAL MEAN	3,736		1,967		2,785	
HIGHEST ANNUAL MEAN					5,856	
LOWEST ANNUAL MEAN					1,326	
HIGHEST DAILY MEAN	54,100	May 10	7,360	Apr 27	90,000	Mar 12, 1935
LOWEST DAILY MEAN	1,070	Jan 22	1,210	Aug 27-29	852	Oct 8, 1956
ANNUAL SEVEN-DAY MINIMUM	1,090	Jan 16	1,230	Aug 23	852	Oct 8, 1956
MAXIMUM PEAK FLOW	---		9,040	Apr 27	122,000	Dec 3, 1982
MAXIMUM PEAK STAGE	---		5.03	Apr 27	25.49	Dec 3, 1982
INSTANTANEOUS LOW FLOW	---		1,200	Aug 28,29	852	Oct 8, 1956
ANNUAL RUNOFF (INCHES)	24.89		13.11		18.56	
10 PERCENT EXCEEDS	7,060		3,170		4,960	
50 PERCENT EXCEEDS	1,960		1,610		1,920	
90 PERCENT EXCEEDS	1,340		1,320		1,170	

e Estimated



WHITE RIVER BASIN

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to July 1975, October 1979 to September 1980, October 1981 to September 1982, October 1983 to June 1989, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO_3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 15...	1250	Environmental	1,470	10.6	107	8.1	330	15.0	--	--	--	--
NOV 04...	1230	Environmental	1,460	14.2	132	7.9	329	11.7	180	36.9	22.2	0.69
DEC 02...	1435	Environmental	1,300	12.2	108	8.3	333	8.9	--	--	--	--
JAN 21...	1240	Environmental	1,460	14.0	117	7.7	311	7.5	120	24.1	13.7	0.44
FEB 25...	1230	Environmental	3,670	9.3	77	7.9	268	7.2	--	--	--	--
MAR 10...	1315	Environmental	2,010	10.1	92	7.9	286	11.3	--	--	--	--
APR 14...	1300	Environmental	2,190	7.6	81	8.0	284	17.7	--	--	--	--
MAY 12...	1245	Environmental	3,140	7.8	77	7.6	275	14.2	150	30.6	17.3	0.83
JUN 03...	1425	Environmental	2,040	8.8	95	7.8	261	18.0	--	--	--	--
JUL 24...	1145	Environmental	1,500	10.2	124	7.9	327	24.6	170	34.5	19.7	0.95
24...	1200	Replicate	--	10.4	126	7.8	324	24.7	170	34.3	19.6	0.99
AUG 19...	1500	Environmental	1,280	8.1	104	7.5	334	27.5	--	--	--	--
SEP 10...	1245	Environmental	1,520	7.2	85	7.8	283	23.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO_3 (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO_3 (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
OCT 15...	--	159	160	195	<1	--	--	--	--	<10	0.06	<0.04	0.21
NOV 04...	1.75	178	179	219	<1	1.67	<0.20	2.8	175	<10	<0.10	<0.04	0.11
DEC 02...	--	182	182	217	3	--	--	--	--	<10	E.06	<0.04	0.15
JAN 21...	1.31	159	158	192	<1	2.24	<0.17	3.4	167	<10	E.06	<0.04	0.32
FEB 25...	--	142	142	173	<1	--	--	--	--	<10	E.10	<0.04	0.32
MAR 10...	--	147	147	179	<1	--	--	--	--	<10	E.09	<0.04	0.29
APR 14...	--	151	151	184	<1	--	--	--	--	<10	E.06	<0.04	0.23
MAY 12...	1.49	140	140	171	<1	2.39	<0.17	3.6	154	<10	0.13	<0.04	0.24
JUN 03...	--	145	146	179	<1	--	--	--	--	<10	<0.10	<0.04	0.22
JUL 24...	1.89	166	168	205	<1	2.77	<0.20	2.6	177	<10	0.18	E.04	0.16
24...	2.07	--	--	--	--	3.03	<0.20	2.6	168	<10	0.31	<0.04	0.16
AUG 19...	--	176	177	216	<1	--	--	--	--	<10	E.10n	<0.04	<0.60d
SEP 10...	--	168	173	211	<1	--	--	--	--	<10	E.06n	<0.04	0.13

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unftrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unftrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unftrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
OCT 15...	E.004	0.02	0.04	<0.04	1k	1k	4k	--	--	--	--	--	--
NOV 04...	<0.008	<0.02	<0.04	<0.04	1k	3k	5k	<2	12	E.2	<0.04	<0.2	<6
DEC 02...	<0.008	<0.02	<0.04	<0.04	<1b	1k	<1b	--	--	--	--	--	--
JAN 21...	<0.008	<0.02	<0.04	<0.04	<1b	1k	1k	E1	18	<0.3	<0.04	<0.2	<6
FEB 25...	<0.008	<0.02	<0.04	E.03	<2b	2k	8k	--	--	--	--	--	--
MAR 10...	<0.008	<0.02	<0.04	<0.04	1k	<1b	2k	--	--	--	--	--	--
APR 14...	<0.008	<0.02	<0.04	<0.04	6k	4k	6k	--	--	--	--	--	--
MAY 12...	<0.008	<0.02	<0.04	<0.04	37	44	55	E1	67	E.2	<0.04	<0.2	<6
JUN 03...	<0.008	<0.02	<0.04	<0.04	12k	22	11k	--	--	--	--	--	--
JUL 24...	<0.008	<0.02	<0.04	<0.04	1k	8k	11k	3	37	0.3	E.03n	<0.2	<7
JUL 24...	<0.008	<0.02	<0.04	<0.04	1k	6k	20	6	43	0.3	E.03n	<0.2	<7
AUG 19...	<0.008	<0.18d	<0.04	<0.04	1k	6k	13k	--	--	--	--	--	--
SEP 10...	<0.008	<0.02	<0.04	<0.04	1k	1k	5k	--	--	--	--	--	--

WHITE RIVER BASIN

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
OCT 15...	--	--	--	--	--	--	--	--
NOV 04...	E10	<0.08	<1	E2.2b	<0.02	<0.5	M	E1
DEC 02...	--	--	--	--	--	--	--	--
JAN 21...	<10	E.06	<1	2.2	<0.02	<0.5	M	E1
FEB 25...	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--
MAY 12...	<10	<0.08	<1	4.8	<0.02	<0.5	M	E1
JUN 03...	--	--	--	--	--	--	--	--
JUL 24...	E7n	1.44	4	3.8	<0.02	<0.5	3	5
24...	E5n	2.97	6	4.6	<0.02	<0.5	7	9
AUG 19...	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°37'54", long 90°34'31", in NE ¼ SW ¼ NE ¼ sec.24, T.23 N., R.4 W., Butler County, Hydrologic Unit 11010008, approximately 5.0 mi below Beaver Dam Creek and 3.1 mi southeast of Fairdealing on Ball Mill Bridge.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--August 1980 to September 1986, November 1999 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1981 to September 1986.

SUSPENDED-SEDIMENT DISCHARGE: July 1980 to September 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Minimum 30.0 °C several days in July 1980; minimum 0.0 °C on many days.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 643 mg/L, Aug. 16, 1982; minimum daily mean, 1 mg/L on many days.

SUSPENDED-SEDIMENT LOAD: Maximum daily, 11,100 tons, Dec. 2, 1982; minimum daily, 0.12 tons, Dec. 19, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 04...	1420	Environmental	59	11.7	105	7.3	285	10.0	150	29.1	18.1	1.12
JAN 21...	1430	Environmental	132	12.0	93	7.3	216	4.5	--	--	--	--
MAR 10...	1530	Environmental	163	10.9	95	7.5	167	9.0	--	--	--	--
MAY 12...	1530	Environmental	587	7.5	81	6.7	81	18.7	38	7.96	4.31	1.29
JUL 24...	0900	Environmental	42	4.8	58	7.5	292	25.0	--	--	--	--
SEP 10...	1620	Environmental	1,050	6.5	76	6.9	178	22.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 04...	1.70	147	148	181	<1	2.23	<0.20	3.3	159	<10	0.11	<0.04	<0.06
JAN 21...	--	100	100	122	<1	--	--	--	--	<10	E.07	<0.04	0.21
MAR 10...	--	81	80	98	<1	--	--	--	--	<10	E.10	<0.04	E.04
MAY 12...	1.32	35	34	42	<1	1.89	<0.17	3.3	61	24	0.46	E.03	0.09
JUL 24...	--	144	145	177	<1	--	--	--	--	18	0.49	E.02	0.07
SEP 10...	--	83	84	103	<1	--	--	--	--	15	0.27	<0.04	0.10

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
NOV 04...	<0.008	<0.02	<0.04	<0.04	34	50	55	M	42	0.4	<0.04	<0.2	<6
JAN 21...	<0.008	<0.02	<0.04	<0.04	3k	17k	13k	--	--	--	--	--	--
MAR 10...	0.010	<0.02	<0.04	<0.04	11k	13k	10k	--	--	--	--	--	--
MAY 12...	E.006	<0.02	<0.04	0.05	450k	515k	870k	14	311	0.5	<0.04	<0.2	<6
JUL 24...	E.004	E.01	E.02	0.07	64	116	160	--	--	--	--	--	--
SEP 10...	0.010	<0.02	E.03n	0.04	110	92	244	--	--	--	--	--	--

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 04...	45	<0.08	<1	32.0	<0.02	<0.5	2	<2
JAN 21...	--	--	--	--	--	--	--	--
MAR 10...	--	--	--	--	--	--	--	--
MAY 12...	89	0.11	M	30.6	<0.02	<0.5	M	2
JUL 24...	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

07071000 GREER SPRING AT GREER, MO

LOCATION.--Lat 36°47'11", long 91°20'53", in SE ¼ SW ¼ sec.36, T.25 N., R.4 W., Oregon County, Hydrologic Unit 11010011, on right bank 300 ft downstream from lower outlet of spring, 1 mi north of Greer, and 1 mi upstream from Eleven Point River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to December 1904, October 1921 to current year. August to December 1904, gage height and discharge measurements only. October to December 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 564.00 ft above National Geodetic Vertical Datum of 1929. Aug. 10 to Dec. 31, 1904, nonrecording gage at site 250 ft downstream at different datum; Nov. 17, 1921, to June 25, 1934, nonrecording gage at site 250 ft downstream at datum 0.74 ft lower than present datum.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Occasional runoff from drainage area of 2.97 mi² included in record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	256	230	e340	208	329	306	330	308	263	271	e298
2	297	253	230	e335	209	329	301	357	307	261	e276	e330
3	296	254	227	e325	210	329	297	378	322	260	e284	e352
4	295	257	226	e315	206	329	294	e428	317	257	e276	347
5	292	257	226	e306	203	326	290	e405	312	256	e269	e342
6	289	256	225	e294	200	317	290	380	306	253	e258	e338
7	288	254	222	e284	200	308	330	368	302	249	e248	e325
8	285	256	222	274	200	303	338	355	297	248	e240	e313
9	283	255	222	e268	200	296	334	346	293	245	e233	297
10	283	255	222	e262	200	289	331	339	e291	244	e227	e282
11	281	251	222	e256	198	284	327	365	297	241	e225	274
12	279	248	222	e252	197	279	322	349	e314	239	222	271
13	278	245	225	e248	196	277	315	339	e324	239	e219	269
14	275	247	226	e244	236	271	308	336	e334	239	e217	278
15	275	246	229	e242	294	270	303	332	e335	237	e217	287
16	274	244	228	239	287	269	301	329	328	235	e215	283
17	274	244	227	235	277	267	299	362	e318	231	e215	278
18	271	242	226	234	269	266	293	382	e309	230	213	274
19	270	239	231	230	285	273	288	380	e304	279	e211	269
20	270	239	235	230	336	321	284	370	e300	347	e211	262
21	268	239	234	229	343	366	283	363	e297	334	e209	258
22	266	238	229	225	350	370	279	352	e294	313	e208	254
23	265	235	226	222	364	366	276	349	e289	295	e213	249
24	263	235	226	219	359	359	284	345	283	279	e211	244
25	263	235	e223	217	348	351	316	339	280	269	e208	241
26	262	234	e221	216	343	344	332	333	276	261	e207	239
27	261	231	e218	213	339	339	331	329	274	256	e204	236
28	261	230	e218	213	332	336	326	324	270	252	e204	232
29	262	233	e216	212	---	326	321	319	267	259	e204	226
30	261	232	e231	208	---	316	323	315	266	278	e220	222
31	258	---	e330	209	---	309	---	314	---	273	e248	---
MEAN	276	245	229	251	264	313	307	352	300	262	228	279
MAX	298	257	330	340	364	370	338	428	335	347	284	352
MIN	258	230	216	208	196	266	276	314	266	230	204	222

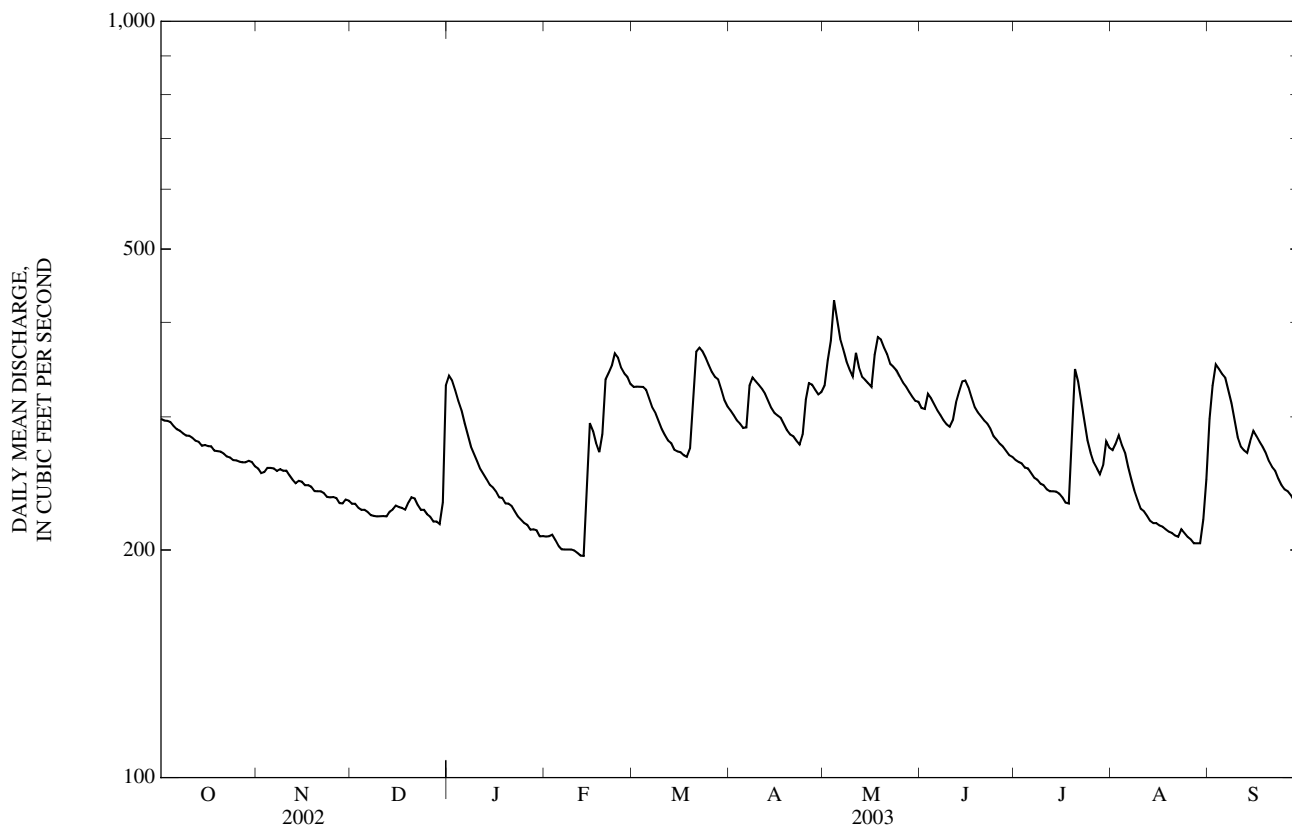
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2003, BY WATER YEAR (WY)

MEAN	259	283	305	326	346	395	443	442	400	335	295	269
MAX	448	586	750	648	652	674	724	776	861	611	563	503
(WY)	(1985)	(1985)	(1928)	(1928)	(1949)	(1975)	(1927)	(1927)	(1927)	(1945)	(1927)	(1928)
MIN	111	111	113	108	144	152	180	143	140	127	122	120
(WY)	(1957)	(1955)	(1956)	(1956)	(1981)	(1981)	(1936)	(1936)	(1936)	(1936)	(1936)	(1955)

07071000 GREER SPRING AT GREER, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1922 - 2003	
ANNUAL MEAN	387		276		341	
HIGHEST ANNUAL MEAN					566	
LOWEST ANNUAL MEAN					174	
HIGHEST DAILY MEAN	799	Apr 14	428	May 4	1,010	Dec 3, 1982
LOWEST DAILY MEAN	130	Jan 22	196	Feb 13	104	Nov 16, 1956
ANNUAL SEVEN-DAY MINIMUM	134	Jan 17	199	Feb 7	105	Nov 13, 1956
MAXIMUM PEAK FLOW	---		Unknown	May 4	1,770	Dec 3, 1982
MAXIMUM PEAK STAGE	---		Unknown	May 4	2.97	Dec 3, 1982
INSTANTANEOUS LOW FLOW	---		193	Feb 13	104	Nov 16, 1956
10 PERCENT EXCEEDS	587		339		545	
50 PERCENT EXCEEDS	366		271		321	
90 PERCENT EXCEEDS	222		217		169	

e Estimated



07071000 GREER SPRING AT GREER, MO—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

				Instantaneous dis-charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
DEC 10...	1230	Environmental		222	7.6	76	7.5	359	14.4	190	39.8	22.6	1.09
MAR 24...	1230	Environmental		361	8.8	88	7.2	322	14.3	170	35.9	20.1	1.06
MAR 24...	1231	Replicate		--	8.8	88	7.2	322	14.3	170	35.0	19.9	1.10
MAY 27...	1300	Environmental		329	8.3	82	7.3	304	14.3	160	33.4	18.7	1.31
AUG 13...	1115	Environmental		219	8.3	83	7.2	322	14.5	170	35.7	19.8	1.55

07071000 GREER SPRING AT GREER, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)	2,6-Di- ethyl- aniline water fltrd 0.7u GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- HCH, water, fltrd, µg/L (34253)
DEC 10...	<10	<0.08	<1	<2.0	<0.02	<0.5	M	<2	--c	--c	--c	--c	--c
MAR 24...	<10	<0.08	<1	<2.0	<0.02	E.3	1	E2	<0.006	<0.006	<0.006	<0.004	<0.005
MAY 27...	<10	<0.08	<1	<2.0	<0.02	<0.5	1	E1	--	--	--	--	--
AUG 13...	<8	<0.08	<1	<0.4	<0.02	<0.5	1	E2	<0.006	<0.006	<0.006	<0.004	<0.005
	<8	<0.08	M	0.6	<0.02	<0.5	Mn	<2	<0.006	<0.006	<0.006	<0.004	<0.005
Date	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7µ GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7µ GF µg/L (82673)	Butyl- ate, water, fltrd, µg/L (04028)	Car- baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo- furan, water, fltrd 0.7µGF µg/L (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7µ GF µg/L (82687)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7u GF µg/L (82682)	Diazi- non, water, fltrd, µg/L (39572)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µ GF µg/L (82677)
DEC 10...	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c
MAR 24...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.005	<0.02
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 13...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.005	<0.005	<0.02
Date	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7µ GF µg/L (82663)	Etho- prop, water, fltrd 0.7µ GF µg/L (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd 0.7µ GF µg/L (82671)	Naprop- amide, water, fltrd 0.7µ GF µg/L (82684)	p,p'- DDE, water, fltrd, µg/L (34653)
DEC 10...	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c
MAR 24...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	<0.013	<0.006	<0.002	<0.007	<0.003
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 13...	<0.002	<0.009	<0.005	<0.003	<0.004	<0.035	<0.027	<0.006	<0.013	<0.006	<0.002	<0.007	<0.003

07071000 GREER SPRING AT GREER, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Para- thion, water, fltrd, µg/L (39542)	Peb- ulate, water, fltrd 0.7µ GF µg/L (82669)	Pendi- meth- alin, water, fltrd 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)	Prome- ton, water, fltrd, µg/L (04037)	Pron- amide, water, fltrd 0.7µ GF µg/L (82676)	Propa- chlor, water, fltrd, µg/L (04024)	Pro- panil, water, fltrd 0.7µ GF µg/L (82679)	Propar- gite, water, fltrd 0.7µ GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water fltrd 0.7µ GF µg/L (82670)	Terba- cil, water, fltrd 0.7µ GF µg/L (82665)	Terbu- fos, water, fltrd 0.7µ GF µg/L (82675)
DEC 10...	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c	--c
MAR 24...	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 13...	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011	<0.02	<0.005	<0.02	<0.034	<0.02

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- allate, water, fltrd 0.7µ GF µg/L (82678)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)
DEC 10...	--c	--c	--c
MAR 24...	<0.005	<0.002	<0.009
MAY 27...	--	--	--
AUG 13...	<0.005	<0.002	<0.009

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

c -- Sample lost in lab

WHITE RIVER BASIN

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO

LOCATION.--Lat 36°38'55", long 91°12'03", in NE ¼ SE ¼ sec.17, T.23 N., R.2 W., Oregon County, Hydrologic Unit 11010011, on downstream side of right pier of main truss of bridge on U.S. Highway 160, 7.0 mi southwest of Bardley, 7.5 mi upstream from Fredericks Fork, and at mile 53.7.

DRAINAGE AREA.--793 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to current year. October 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 827: 1927-28, 1935. WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 410.84 ft above National Geodetic Vertical Datum of 1929. Prior to June 26, 1934, nonrecording gage at site 100 ft upstream at datum 0.06 ft higher; June 26, 1934, to Oct. 19, 1939, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 19.7 ft, August 1915, from floodmarks, discharge, 44,000 ft³/s, from rating curve extended above 25,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	402	360	894	356	688	551	592	564	422	389	411
2	430	402	363	763	355	683	544	706	577	412	403	452
3	433	404	360	682	357	677	533	708	596	405	398	522
4	440	403	378	631	350	670	534	694	581	399	394	491
5	433	419	364	594	343	662	524	717	556	395	384	457
6	436	411	357	558	350	642	523	865	541	389	378	437
7	434	405	355	530	343	620	560	927	531	384	368	421
8	436	402	355	512	337	605	581	817	519	379	358	409
9	439	406	352	499	340	587	574	748	507	375	350	398
10	440	408	355	479	340	568	563	704	508	374	344	387
11	436	401	357	459	337	556	557	1,200	532	370	340	379
12	432	393	354	445	335	549	549	1,040	537	367	336	373
13	426	390	372	435	335	544	538	862	543	363	332	383
14	421	390	378	427	425	529	523	804	559	358	333	378
15	421	394	378	418	588	522	507	759	548	356	325	383
16	419	389	376	415	584	518	504	742	531	351	322	380
17	419	387	378	406	549	514	499	1,030	514	348	322	374
18	417	386	379	400	526	510	486	1,160	503	345	331	369
19	431	383	384	398	568	536	475	1,050	494	392	321	363
20	423	380	385	394	719	591	475	938	487	468	320	357
21	416	379	384	390	742	688	463	853	474	476	315	353
22	412	376	379	383	769	714	450	799	464	448	313	350
23	409	375	374	374	876	700	442	759	456	425	318	343
24	406	375	384	369	851	678	472	727	448	407	311	338
25	428	369	381	369	784	664	527	704	440	393	306	332
26	414	367	374	367	754	644	557	679	446	381	305	329
27	405	364	368	362	736	625	541	650	430	374	e304	327
28	408	363	365	363	712	624	525	626	423	367	e303	319
29	437	364	366	366	---	547	511	608	416	406	302	315
30	422	364	385	359	---	525	506	596	426	408	319	311
31	409	---	789	360	---	559	---	584	---	402	382	---
MEAN	425	388	384	465	524	604	520	795	505	392	340	381
MAX	440	419	789	894	876	714	581	1,200	596	476	403	522
MIN	405	363	352	359	335	510	442	584	416	345	302	311
IN.	0.62	0.55	0.56	0.68	0.69	0.88	0.73	1.16	0.71	0.57	0.49	0.54

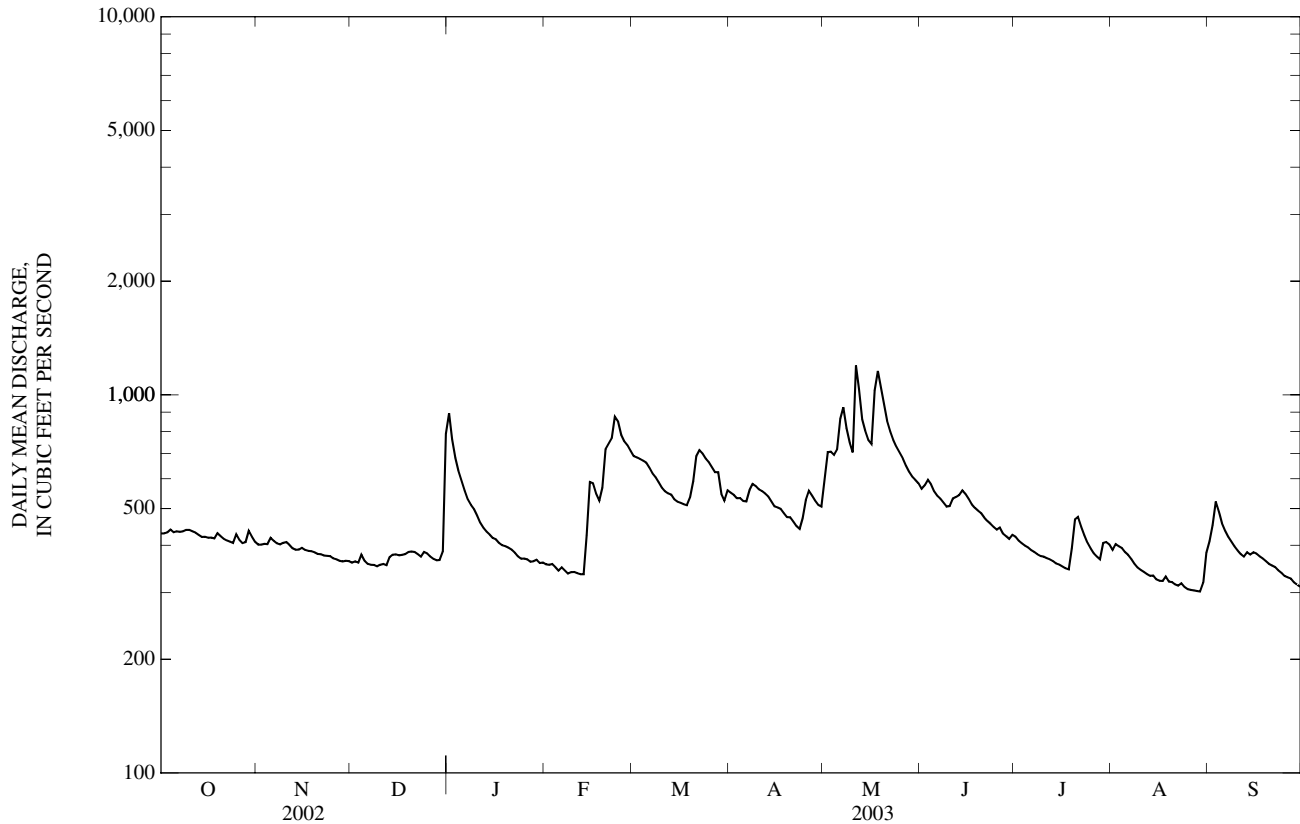
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2003, BY WATER YEAR (WY)

	MEAN	422	590	704	781	831	1,065	1,302	1,167	878	604	485	433
MAX	1,291	2,082	4,048	3,007	2,223	3,556	5,037	3,346	3,107	1,559	1,354	1,183	
(WY)	(1985)	(1994)	(1983)	(1985)	(1949)	(1945)	(1927)	(2002)	(1928)	(1951)	(1927)	(1975)	
MIN	168	176	170	159	224	264	340	266	245	213	199	181	
(WY)	(1957)	(1957)	(1956)	(1956)	(1963)	(1981)	(1981)	(1936)	(1936)	(1936)	(1936)	(1956)	

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1922 - 2003	
ANNUAL MEAN	1,041		477		771	
HIGHEST ANNUAL MEAN					1,782	
LOWEST ANNUAL MEAN					303	
HIGHEST DAILY MEAN	15,500	May 9	1,200	May 11	26,800	Apr 14, 1927
LOWEST DAILY MEAN	244	Jan 22	302	Aug 29	155	Jan 26, 1956
ANNUAL SEVEN-DAY MINIMUM	253	Jan 17	307	Aug 23	157	Jan 21, 1956
MAXIMUM PEAK FLOW	---		1,400	May 11	49,800	Dec 3, 1982
MAXIMUM PEAK STAGE	---		3.81	May 11	21.64	Dec 3, 1982
INSTANTANEOUS LOW FLOW	---		302	Aug 29,30	152	Jan 27, 1956
ANNUAL RUNOFF (INCHES)	17.82		8.16		13.21	
10 PERCENT EXCEEDS	1,960		702		1,420	
50 PERCENT EXCEEDS	594		419		550	
90 PERCENT EXCEEDS	364		344		264	

e Estimated



WHITE RIVER BASIN

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 13...	1145	Environmental	382	11.0	102	8.0	355	11.6	200	41.2	23.1	1.13	
NOV 13...	1146	Blank	--	--	--	--	--	--	--	0.02	<0.008	<0.10	
JAN 21...	1225	Environmental	368	11.4	102	8.3	348	10.1	--	--	--	--	
MAR 24...	1530	Environmental	606	11.5	121	8.0	322	16.6	--	--	--	--	
MAY 27...	1600	Environmental	647	10.3	111	7.9	306	18.2	160	33.8	18.8	1.25	
JUL 15...	1230	Environmental	358	10.0	113	7.6	349	22.0	--	--	--	--	
SEP 10...	0930	Environmental	389	8.6	94	7.5	339	18.0	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd titr., field, mg/L (00450)	Carbonate, wat unfltrd titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 13...	1.43	204	204	249	<1	2.33	<0.2	2.2	198	<10	<0.10	<0.04	0.53
NOV 13...	<0.09	--	--	--	--	<0.20	<0.2	<0.2	<10	<10	<0.10	<0.04	<0.06
JAN 21...	--	201	201	245	<1	--	--	--	--	<10	E.05	<0.04	0.61
MAR 24...	--	149	152	185	<1	--	--	--	--	<10	<0.10	<0.04	0.60
MAY 27...	1.64	153	155	182	<1	2.93	<0.2	2.7	166	<10	E.08	<0.04	0.45
JUL 15...	--	180	180	220	<1	--	--	--	--	<10	E.10	<0.04	0.47
SEP 10...	--	169	172	210	<1	--	--	--	--	<10	E.07n	<0.04	0.43
Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC 0.7 μ MF col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, μ g/L (01106)	Aluminum, water, unfltrd recoverable, μ g/L (01105)	Arsenic water, fltrd, μ g/L (01000)	Cadmium water, fltrd, μ g/L (01025)	Cadmium water, unfltrd μ g/L (01027)	Copper, water, fltrd, μ g/L (01040)
NOV 13...	<0.008	<0.02	<0.04	<0.04	2k	1k	5k	E1	10	0.4	<0.04	<0.2	<6
NOV 13...	<0.008	<0.02	<0.04	<0.04	--	--	--	E1	2	<0.3	<0.04	<0.2	<6
JAN 21...	<0.008	<0.02	<0.04	<0.04	3k	5k	<1b	--	--	--	--	--	--
MAR 24...	<0.008	<0.02	<0.04	<0.04	<1b	1k	3k	--	--	--	--	--	--
MAY 27...	<0.008	<0.02	E.03	E.02	2k	14k	7k	E1	67	0.3	<0.04	<0.2	<7
JUL 15...	<0.008	<0.02	<0.04	<0.04	2k	5k	27	--	--	--	--	--	--
SEP 10...	<0.008	<0.02	<0.04	<0.04	20	21	42	--	--	--	--	--	--

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV								
13...	E7	<0.08	<1	3.9	<0.02	<0.5	M	<2
13...	<10	E.07	<1	<2.0	<0.02	<0.5	M	<2
JAN								
21...	--	--	--	--	--	--	--	--
MAR								
24...	--	--	--	--	--	--	--	--
MAY								
27...	E4	<0.08	<1	4.6	<0.02	<0.5	1	<2
JUL								
15...	--	--	--	--	--	--	--	--
SEP								
10...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

ARKANSAS RIVER BASIN

07185765 SPRING RIVER AT CARTHAGE, MO

LOCATION.--Lat 31°11'11", long 94°19'56", in SW ¼ NW ¼ SW ¼ sec.33, T.29 N., R.31 W., Jasper County, Hydrologic Unit 11070207, on left downstream wingwall of St. Francis Street bridge 0.8 mi northwest of junction with Highway 96 in Carthage.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--October 1966 to Sept. 30, 1980, May 23, 2001 to current year. Occasional discharge measurements 1951-1954. Intermittent gage readings since Oct. 31, 1945, collected by Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is unknown. Jan. 26, 1967 to September 1980, gage located approximately 0.75 mi upstream, at datum of 923.68 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 26, 1967, nonrecording gage at site 0.87 mi upstream of current site, at former datum.

REMARKS.--No estimated daily discharges. Records good. U.S.G.S. satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1943, reached a stage of 22.0 ft by highwater mark 1 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

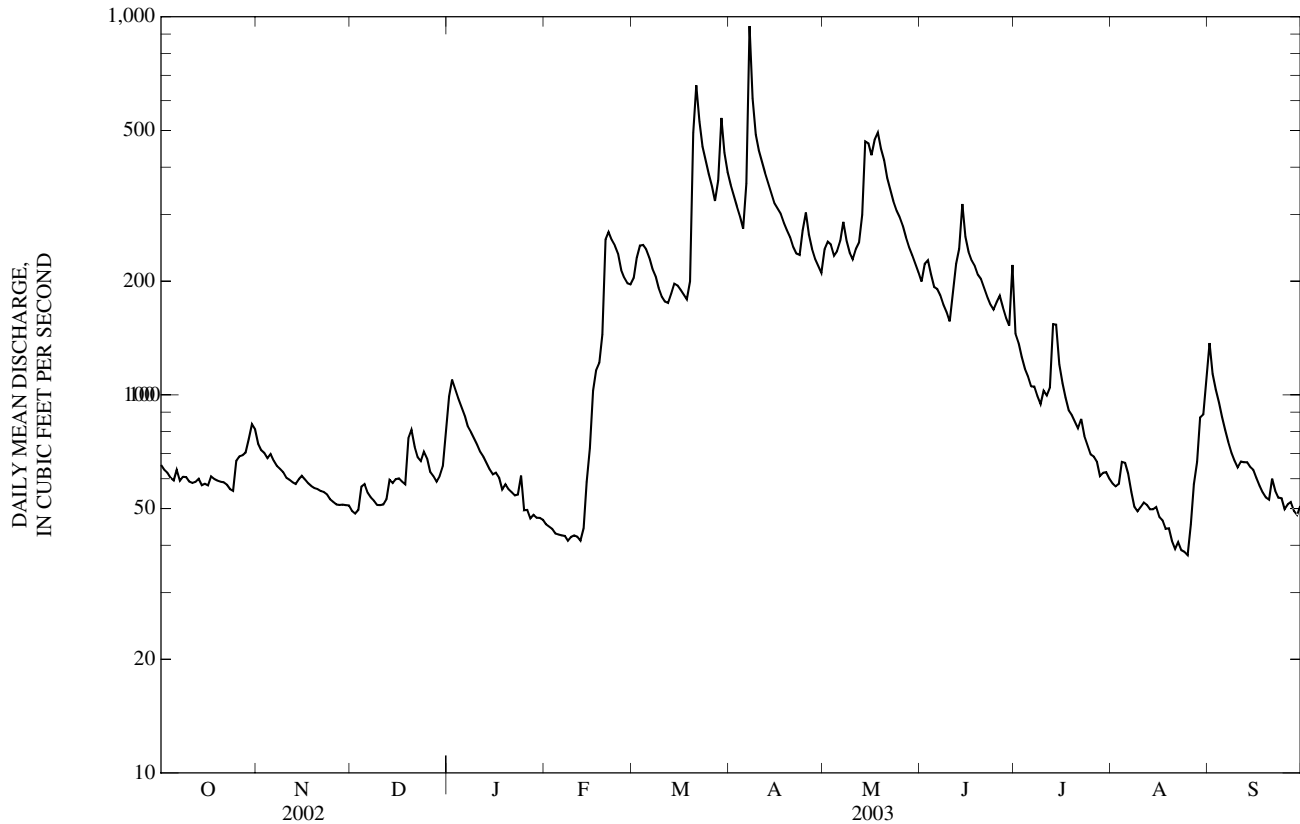
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	74	49	99	45	204	360	243	199	145	58	137
2	63	71	49	110	45	230	336	254	222	137	57	114
3	62	70	50	104	44	248	315	250	227	126	58	103
4	60	68	57	98	43	249	296	233	209	117	66	95
5	59	70	58	93	43	243	275	240	193	112	66	87
6	63	67	55	88	43	230	362	255	191	105	62	81
7	59	65	54	83	42	216	945	287	183	105	55	75
8	61	64	53	80	41	206	608	256	173	99	51	70
9	61	62	51	77	42	192	488	238	165	95	49	67
10	59	60	51	74	42	182	443	228	156	103	51	64
11	58	60	51	71	42	176	412	243	184	100	52	67
12	59	59	53	69	41	175	386	253	222	104	51	66
13	60	58	60	66	44	185	362	299	243	154	50	66
14	58	60	58	64	59	197	342	468	320	153	50	64
15	58	61	60	62	72	195	321	463	262	120	51	63
16	58	60	60	62	103	190	311	430	239	107	48	60
17	61	58	59	60	116	184	301	473	227	98	47	58
18	60	57	58	56	121	179	285	494	219	91	44	55
19	59	57	77	58	144	200	272	448	208	88	44	54
20	59	56	81	56	257	493	261	418	202	85	41	53
21	59	56	73	55	270	659	246	375	191	82	39	60
22	58	55	68	54	257	528	236	348	182	86	41	56
23	56	55	67	54	248	454	234	325	173	78	39	53
24	56	53	71	61	236	416	272	307	168	74	38	53
25	67	52	68	50	214	384	303	295	176	70	38	50
26	69	51	63	50	204	356	266	280	183	69	45	51
27	69	51	61	47	197	326	243	261	170	67	58	52
28	70	51	59	48	196	369	229	246	160	61	66	49
29	76	51	61	47	---	540	219	234	152	62	87	48
30	84	51	65	47	---	437	210	222	220	62	89	51
31	81	---	79	47	---	388	---	211	---	60	109	---
MEAN	62.8	59.4	60.6	67.4	116	298	338	309	201	97.3	54.8	67.4
MAX	84	74	81	110	270	659	945	494	320	154	109	137
MIN	56	51	49	47	41	175	210	211	152	60	38	48
IN.	0.17	0.16	0.16	0.18	0.28	0.81	0.89	0.84	0.53	0.26	0.15	0.18

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD BY WATER YEAR (WY)

MEAN	223	451	363	307	412	658	527	575	417	253	127	201
MAX	561	1,785	1,475	908	1,567	1,854	1,701	2,123	1,343	1,038	296	625
(WY)	(1974)	(1973)	(1974)	(1973)	(1975)	(1973)	(1973)	(2002)	(1974)	(1976)	(1979)	(1971)
MIN	62.8	59.4	57.7	50.0	104	108	138	174	70.8	49.3	53.4	46.3
(WY)	(2003)	(2003)	(1977)	(1977)	(1977)	(1972)	(1977)	(1971)	(1972)	(1972)	(1972)	(1980)

07185765 SPRING RIVER AT CARTHAGE, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		FOR PERIOD OF RECORD	
ANNUAL MEAN	416		144		379	
HIGHEST ANNUAL MEAN					836	
LOWEST ANNUAL MEAN					144	
HIGHEST DAILY MEAN	11,200	May 8	945	Apr 7	11,800	Nov 25, 1973
LOWEST DAILY MEAN	49	Dec 1,2	38	Aug 24,25	33	Oct 11, 1980
ANNUAL SEVEN-DAY MINIMUM	50	Nov 27	40	Aug 19	34	Oct 8, 1980
MAXIMUM PEAK FLOW	---		1,070	Apr 7	24,800	Nov 1, 2001
MAXIMUM PEAK STAGE	---		4.86	Apr 7	17.15 ^a	Nov 1, 1972
INSTANTANEOUS LOW FLOW	---		36	Aug 24	33	Sep 6, 2001
ANNUAL RUNOFF (INCHES)	13.30		4.61		12.12	
10 PERCENT EXCEEDS	816		313		728	
50 PERCENT EXCEEDS	205		75		204	
90 PERCENT EXCEEDS	59		50		69	

^a Former datum.

ARKANSAS RIVER BASIN

07186000 SPRING RIVER NEAR WACO, MO

LOCATION.--Lat 37°14'44", long 94°33'58", on line between SE 1/2 sec.7 and NE 1/2 sec.18, T.29 N., R.33 W., Jasper County, Hydrologic Unit 11070207, on downstream side of left pier of county highway bridge, 0.8 mi downstream from Blackberry Creek, 1.5 mi east of Waco, and 47.6 mi upstream from mouth.

DRAINAGE AREA.--1,164 mi².

PERIOD OF RECORD.--April 1924 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 833.23 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 23, 1935, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	71	55	76	50	205	482	302	287	261	51	1,240
2	63	67	55	96	50	214	416	314	520	178	50	1,730
3	62	65	55	105	48	251	365	328	459	164	47	736
4	59	64	67	101	47	281	328	333	379	148	47	294
5	56	67	66	95	46	272	299	385	273	135	56	177
6	56	66	63	89	47	254	614	579	249	127	55	132
7	58	64	61	86	45	238	2,640	885	230	120	51	109
8	55	63	59	83	45	224	1,940	762	214	113	45	99
9	57	63	57	80	45	207	971	481	198	106	42	94
10	57	61	59	76	46	194	706	374	183	107	38	91
11	55	60	60	73	47	186	603	331	183	104	39	90
12	55	60	60	71	47	185	537	324	205	121	41	93
13	54	61	69	69	46	213	486	398	231	125	39	92
14	53	63	71	68	65	259	442	901	330	172	38	85
15	54	66	67	67	73	292	406	821	332	146	38	82
16	54	64	66	66	76	262	379	1,050	283	120	37	80
17	54	64	75	65	100	248	365	2,790	266	108	33	77
18	56	64	80	65	116	227	346	2,020	259	106	27	73
19	56	63	72	61	160	243	327	1,100	245	97	26	70
20	54	63	82	62	213	522	354	1,260	235	91	28	67
21	53	62	83	60	326	1,440	360	1,220	220	85	27	66
22	55	63	73	56	348	1,160	344	878	207	85	26	82
23	54	61	72	53	291	751	301	647	193	81	23	71
24	53	59	80	55	263	590	638	541	187	71	20	68
25	60	58	75	57	238	508	1,500	495	190	68	17	66
26	64	59	70	51	219	455	1,030	460	290	67	19	64
27	64	59	64	50	210	416	588	426	202	62	21	68
28	65	58	61	54	205	433	428	386	184	59	27	63
29	73	57	63	51	---	700	355	359	179	56	128	63
30	73	55	67	50	---	786	310	333	203	54	221	88
31	75	---	67	50	---	601	---	308	---	52	462	---
MEAN	58.7	62.3	66.9	69.1	125	413	629	703	254	109	58.7	207
MAX	75	71	83	105	348	1,440	2,640	2,790	520	261	462	1,730
MIN	53	55	55	50	45	185	299	302	179	52	17	63
IN.	0.06	0.06	0.07	0.07	0.11	0.41	0.60	0.70	0.24	0.11	0.06	0.20

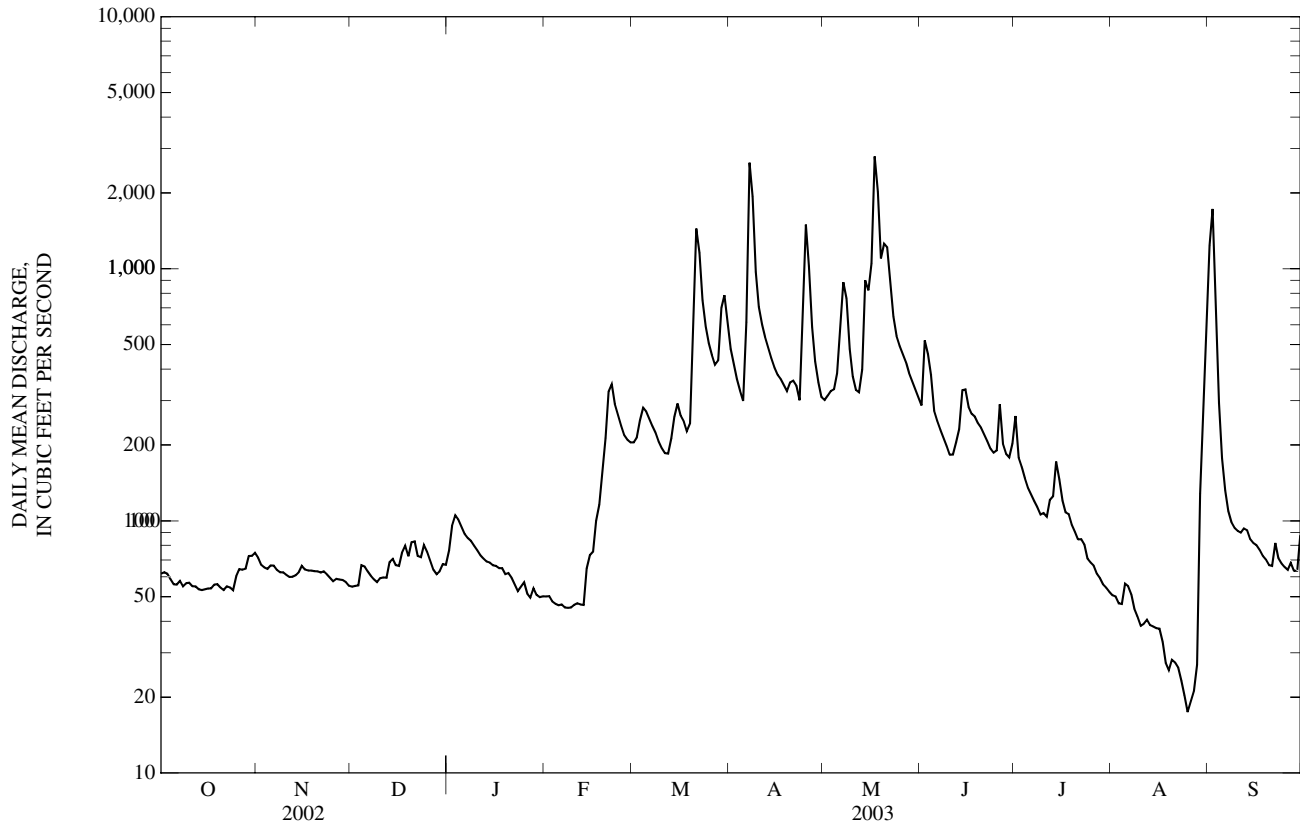
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2003, BY WATER YEAR (WY)

MEAN	659	935	704	704	934	1,205	1,454	1,599	1,386	701	424	550
MAX	6,997	6,726	4,704	3,222	6,372	5,809	7,542	11,640	5,521	4,323	7,812	10,260
(WY)	(1942)	(1986)	(1993)	(1973)	(1985)	(1973)	(1927)	(1943)	(1928)	(1976)	(1927)	(1993)
MIN	21.0	30.5	33.3	29.7	31.0	33.6	38.2	120	73.4	15.2	7.71	22.0
(WY)	(1957)	(1954)	(1964)	(1964)	(1964)	(1954)	(1956)	(1932)	(1954)	(1954)	(1954)	(1956)

07186000 SPRING RIVER NEAR WACO, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1924 - 2003	
ANNUAL MEAN	978		230		931	
HIGHEST ANNUAL MEAN					3,093	
LOWEST ANNUAL MEAN					61.4	
HIGHEST DAILY MEAN	32,900	May 9	2,790	May 17	108,000	Sep 25, 1993
LOWEST DAILY MEAN	53	Oct 14,21,24	17	Aug 25	4.5	Aug 28, 1954
ANNUAL SEVEN-DAY MINIMUM	54	Oct 11	22	Aug 21	5.0	Sep 2, 1954
MAXIMUM PEAK FLOW	---		2,980	Apr 7	151,000 ^a	Sep 26, 1993
MAXIMUM PEAK STAGE	---		6.62	Apr 7	34.06	Sep 26, 1993
INSTANTANEOUS LOW FLOW	---		15	Aug 25	4.2	Jul 28, 1954
ANNUAL RUNOFF (INCHES)	11.41		2.68		10.87	
10 PERCENT EXCEEDS	1,550		521		1,800	
50 PERCENT EXCEEDS	266		82		296	
90 PERCENT EXCEEDS	60		50		66	

^a From rating curve extended above 85,000 ft³/s.



ARKANSAS RIVER BASIN

07186480 CENTER CREEK NEAR SMITHFIELD, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°09'20", long 94°36'10", in NW ¼ SE ¼ NE ¼ sec.14, T.28 N., R.34 W., Jasper County, Hydrologic Unit 11070207. Sampling site is located approximately 1.0 mi above the mouth of Center Creek, 1.0 mi south of Smithfield on county road.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--October 1968 to July 1975, July 1977 to June 1989, April 1993 to August 1995, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

				Instantaneous dis- charge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
Date	Time	Sample type												
NOV 05...	1525	Blank		--	--	--	--	--	--	--	<0.01	<0.008	<0.10	
05...	1555	Environmental		51	11.2	108	8.2	408	11.9	190	67.6	4.12	1.98	
JAN 21...	1345	Environmental		195	14.3	111	7.9	443	3.7	--	--	--	--	
21...	1345	Blank		--	--	--	--	--	--	--	--	--	--	
FEB 11...	0830	Blank		--	--	--	--	--	--	--	--	--	--	
11...	0855	Environmental		38	12.2	95	7.8	434	3.6	--	--	--	--	
MAR 25...	0830	Environmental		251	8.9	90	7.4	371	14.7	--	--	--	--	
APR 14...	1710	Blank		--	--	--	--	--	--	--	--	--	--	
14...	1725	Environmental		207	13.4	152	7.7	367	20.0	--	--	--	--	
MAY 13...	0945	Blank		--	--	--	--	--	--	--	0.02	<0.008	<0.16	
13...	1015	Environmental		248	7.8	84	7.2	318	17.8	140	52.6	2.87	3.37	
JUN 17...	0850	Environmental		166	7.5	87	7.5	334	21.5	--	--	--	--	
17...	0851	Blank		--	--	--	--	--	--	--	--	--	--	
JUL 08...	1000	Blank		--	--	--	--	--	--	--	E.01n	<0.008	<0.16	
08...	1045	Environmental		108	7.3	94	7.8	395	26.3	190	69.7	3.55	1.99	
SEP 10...	0845	Blank		--	--	--	--	--	--	--	--	--	--	
10...	0900	Environmental		66	7.8	92	7.8	474	22.1	--	--	--	--	
			ANC, wat unfltrd, end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd, incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
Date	Sodium, water, fltrd, mg/L (00930)													
NOV 05...	<0.09	--	--	--	--	<0.20	<0.20	<0.2	<10	<10	<0.10	<0.04	<0.06	
05...	9.25	150	150	183	<1	9.85	<0.20	29.3	244	<10	0.16	<0.04	2.88	
JAN 21...	--	143	144	175	<1	--	--	--	--	<10	0.19	<0.04	3.09	
21...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06	
FEB 11...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06	
11...	--	138	137	167	<1	--	--	--	--	<10	0.20	<0.04	2.50	
MAR 25...	--	121	120	147	<1	--	--	--	--	<10	1.4	<0.04	4.56	
APR 14...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06	
14...	--	124	124	151	<1	--	--	--	--	11	0.38	<0.04	2.31	
MAY 13...	<0.09	--	--	--	--	<0.20	<0.17	<0.2	<10	<10	<0.10	<0.04	<0.06	
13...	6.29	101	102	124	<1	11.8	<0.17	20.2	207	48	0.82	E.02	2.27	
JUN 17...	--	121	122	149	<1	--	--	--	--	24	0.36	<0.04	2.56	
17...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06	
JUL 08...	<0.10	--	--	--	--	<0.20	<0.20	<0.2	<10	<10	<0.10	<0.04	<0.06	
08...	7.33	134	132	162	<1	11.5	0.20	39.8	264	29	0.20	<0.04	2.26	
SEP 10...	--	--	--	--	--	--	--	--	--	<10	<0.10	<0.04	<0.06	
10...	--	149	150	183	<1	--	--	--	--	10	0.22	<0.04	2.25	

07186480 CENTER CREEK NEAR SMITHFIELD, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unftrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7µ MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unftrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unftrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
NOV													
05...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	<2	<0.3	<0.04	<0.2	<6
05...	E.006	0.12	0.12	0.12	24	63	22	M	31	0.3	0.37	0.4	<6
JAN													
21...	0.034	0.11	0.12	0.16	1k	21	12k	--	--	--	--	--	--
21...	<0.008	<0.02	<0.04	E.02	--	--	--	--	--	--	--	--	--
FEB													
11...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
11...	0.031	0.11	0.13	0.14	14k	340k	59	--	--	--	--	--	--
MAR													
25...	<0.008	0.48	0.52	0.51	120	270	93	--	--	--	--	--	--
APR													
14...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
14...	0.011	0.04	0.05	0.05	4k	13k	16k	--	--	--	--	--	--
MAY													
13...	<0.008	<0.02	E.02	<0.04	--	--	--	<2	E1	<0.3	<0.04	<0.2	<6
13...	0.016	0.09	0.12	0.19	630	450	207k	2	452	0.5	0.08	2.7	<6
JUN													
17...	<0.008	0.08	0.10	0.14	100	135	87	--	--	--	--	--	--
17...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
JUL													
08...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	E1n	<0.3	<0.04	<0.2	<7
08...	E.004	0.08	0.10	0.12	78	60k	58	2	213	0.5	0.19	1.6	<7
SEP													
10...	<0.008	<0.02	<0.04	<0.04	--	--	--	--	--	--	--	--	--
10...	E.004n	0.10	0.12	0.14	110k	160	105	--	--	--	--	--	--

Date	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lead, water, unftrd recover- able, µg/L (01051)	Mangan- ese, water, ftrd, µg/L (01056)	Mercury water, unftrd recover- able, µg/L (71900)	Selen- ium, water, ftrd, µg/L (01145)	Zinc, water, ftrd, µg/L (01090)	Zinc, water, unftrd recover- able, µg/L (01092)
NOV								
05...	<10	<0.08	<1	<2.0	<0.02	<0.5	<1	<2
05...	E5	0.28	2	26.8	<0.02	<0.5	190	188
JAN								
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
FEB								
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
MAR								
25...	--	--	--	--	--	--	--	--
APR								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
MAY								
13...	<10	<0.08	<1	<2.0	<0.02	<0.5	1	E2
13...	26	0.72	23	44.3	E.01	E.3	118	365
JUN								
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
JUL								
08...	<8	<0.08	<1	<0.4	<0.02	<0.5	<1	E1n
08...	<8	0.48	14	32.4	<0.02	E.3	159	306
SEP								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

ARKANSAS RIVER BASIN

07186600 TURKEY CREEK NEAR JOPLIN, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 37°07'15", long 94°34'55", in SE ¼ NE ¼ SE ¼ sec.25, T.28 N., R.34 W., Jasper County, Hydrologic Unit 11070207, 3.0 mi northwest of Joplin on County Highway P, 2.5 mi upstream from the mouth of Turkey Creek.

DRAINAGE AREA.--41.8 mi².

PERIOD OF RECORD.--August 1963 to September 1977, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 06...	0905	Environmental	17	7.6	72	7.8	602	11.9	230	81.4	5.70	9.98	
JAN 21...	1500	Environmental	13	13.0	112	7.8	800	7.4	--	--	--	--	
FEB 11...	1005	Environmental	11	9.7	82	7.6	794	6.8	--	--	--	--	
MAR 24...	1710	Environmental	41	9.5	104	7.6	605	17.5	--	--	--	--	
APR 14...	1555	Environmental	32	10.1	116	7.8	607	20.5	--	--	--	--	
MAY 13...	0815	Environmental	25	7.4	80	7.7	542	17.3	220	79.5	4.89	6.14	
JUN 16...	1530	Environmental	26	9.5	120	7.6	634	25.5	--	--	--	--	
JUL 08...	0830	Environmental	27	5.7	70	7.3	578	24.4	250	89.3	5.49	5.05	
SEP 09...	1400	Environmental	23	8.5	105	7.7	684	24.5	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, titr., field, mg/L (00450)	Carbonate, wat unfltrd, titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 06...	31.0	155	154	188	<1	37.6	0.20	75.3	372	<10	1.6	<0.04	5.56
JAN 21...	--	156	156	190	<1	--	--	--	--	<10	1.3	<0.04	6.64
FEB 11...	--	134	133	163	<1	--	--	--	--	<10	2.1	0.50	10.6
MAR 24...	--	138	138	168	<1	--	--	--	--	20	0.31	<0.04	2.96
APR 14...	--	133	134	164	<1	--	--	--	--	<10	2.1	<0.04	6.35d
MAY 13...	21.0	132	132	161	<1	28.7	<0.17	69.6	346	<10	1.5	<0.04	5.29
JUN 16...	--	129	129	157	<1	--	--	--	--	<10	3.7	<0.04	8.17
JUL 08...	19.1	146	146	178	<1	26.9	0.20	83.4	390	<10	0.76	<0.04	4.64
SEP 09...	--	164	164	200	<1	--	--	--	--	<10	1.2	<0.04	5.05d

07186600 TURKEY CREEK NEAR JOPLIN, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, ftrd, mg/L as N (00613)	Ortho- phos- phate, water, ftrd, mg/L as P (00671)	Phos- phorus, water, ftrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, ftrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, ftrd, µg/L (01000)	Cadmium water, ftrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, ftrd, µg/L (01040)
NOV 06...	E.004	1.08	1.13	1.14	640k	1,270k	83	3	12	0.8	2.06	3.8	<6
JAN 21...	E.004	1.34	1.39	1.43	10k	74k	7k	--	--	--	--	--	--
FEB 11...	0.037	1.51	1.64	1.55	20	235	48	--	--	--	--	--	--
MAR 24...	0.012	0.04	0.04	0.08	140	61k	35	--	--	--	--	--	--
APR 14...	E.006n	0.74	0.74	0.80	8k	66	13k	--	--	--	--	--	--
MAY 13...	E.007	0.67	0.71	0.69	640k	665k	255	4	27	0.7	1.73	2.1	<6
JUN 16...	0.008	0.87	0.96	0.95	360	410k	120	--	--	--	--	--	--
JUL 08...	E.007	0.56	0.57	0.57	600k	540k	155	3	18	0.8	1.63	1.8	<7
SEP 09...	E.004n	1.14d	1.22	1.24	--e	--e	72	--	--	--	--	--	--

Date	Iron, water, ftrd, µg/L (01046)	Lead, water, ftrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, ftrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, ftrd, µg/L (01145)	Zinc, water, ftrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV 06...	22	1.28	3	7.8	E.01	E.4	413	346
JAN 21...	--	--	--	--	--	--	--	--
FEB 11...	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--
MAY 13...	20	1.06	4	19.9	<0.02	E.4	382	409
JUN 16...	--	--	--	--	--	--	--	--
JUL 08...	E7	1.22	4	10.6	<0.02	E.5	320	317
SEP 09...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

Value qualifier codes used in this table:

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail

07186690 SHOAL CREEK AT PIONEER, MO

LOCATION.--Lat 36°49'45", long 94°02'57" in NW ¼ NE ¼ NW ¼ sec.3, T.24 N., R.29 W., Barry County, Hydrologic Unit 11070207, on right bank on private property, 0.25 mi downstream from Highway 97 bridge.

DRAINAGE AREA.--68.3 mi².

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

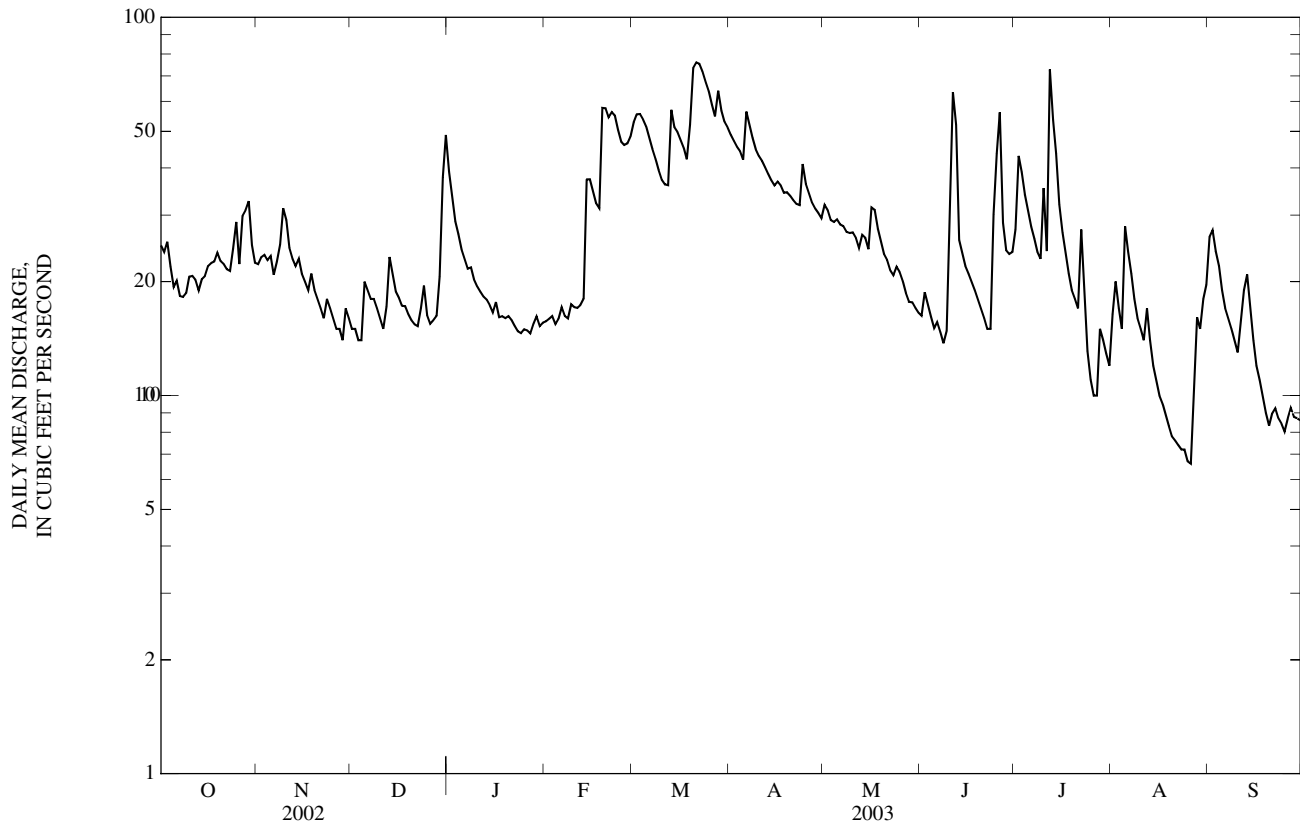
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	22	e15	39	16	53	49	32	16	27	16	26
2	24	23	e15	34	16	55	47	31	19	e43	20	27
3	25	24	e14	29	16	56	46	29	17	e39	e17	24
4	22	23	e14	27	15	54	44	29	16	e34	e15	22
5	19	23	e20	24	16	51	42	29	15	e31	e28	19
6	20	21	e19	23	17	48	56	28	16	e28	e24	17
7	18	23	e18	22	16	45	52	28	15	e26	e21	16
8	18	25	e18	22	16	42	48	27	14	e24	e18	15
9	19	31	e17	20	17	39	45	27	15	e23	e16	14
10	21	29	e16	19	17	37	43	27	33	35	e15	13
11	21	25	15	19	17	36	42	26	63	24	e14	16
12	20	e23	17	18	17	36	40	25	52	73	e17	19
13	19	e22	23	18	18	57	39	27	26	54	e14	21
14	20	e23	21	17	37	51	37	26	24	44	e12	e17
15	21	e21	19	17	37	50	36	24	e22	e32	e11	e14
16	22	e20	18	18	35	47	37	31	e21	e27	e10	e12
17	22	e19	17	16	32	45	36	31	20	e24	e9.5	e11
18	23	e21	17	16	31	42	34	28	e19	e21	e8.9	e10
19	24	e19	16	16	58	52	34	26	e18	e19	e8.3	e9.0
20	23	e18	16	16	58	74	34	24	e17	e18	e7.8	8.3
21	22	e17	15	16	54	76	33	23	e16	e17	e7.6	9.0
22	22	e16	15	15	56	75	32	21	e15	27	e7.4	9.3
23	21	e18	17	15	55	72	32	21	e15	18	e7.2	8.7
24	24	e17	20	15	50	68	41	22	30	13	e7.2	8.4
25	29	e16	16	15	47	64	36	21	44	e11	e6.7	8.0
26	22	e15	15	15	46	59	34	20	56	e10	e6.6	8.7
27	30	e15	16	15	46	55	32	19	29	e10	11	9.3
28	31	e14	16	15	48	64	31	18	24	e15	16	8.8
29	33	e17	21	16	---	57	30	18	24	e14	15	8.7
30	25	e16	38	15	---	53	29	17	24	13	18	8.6
31	22	---	49	16	---	51	---	17	---	e12	20	---
MEAN	22.8	20.5	18.8	19.3	32.3	53.7	39.0	24.9	24.5	26.0	13.7	13.9
MAX	33	31	49	39	58	76	56	32	63	73	28	27
MIN	18	14	14	15	15	36	29	17	14	10	6.6	8.0
IN.	0.39	0.34	0.32	0.33	0.49	0.91	0.64	0.42	0.40	0.44	0.23	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2003, BY WATER YEAR (WY)

[illegible]

07186690 SHOAL CREEK AT PIONEER, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2002 - 2003	
ANNUAL MEAN	76.4		25.8		53.5	
HIGHEST ANNUAL MEAN					81.3	2002
LOWEST ANNUAL MEAN					25.8	2003
HIGHEST DAILY MEAN	2,040	May 8	76	Mar 21	2,040	May 8, 2002
LOWEST DAILY MEAN	14	Nov 28, Dec 3, 4	6.6	Aug 26	6.6	Aug 26, 2003
ANNUAL SEVEN-DAY MINIMUM	15	Nov 28	7.2	Aug 20	7.2	Aug 20, 2003
MAXIMUM PEAK FLOW	---		137	Jul 12	6,100 ^a	May 8, 2002
MAXIMUM PEAK STAGE	---		2.35	Jul 12	10.14	May 8, 2002
INSTANTANEOUS LOW FLOW	---		6.6 ^b	Aug 26	6.6	Aug 26, 2003
ANNUAL RUNOFF (INCHES)	15.18		5.12		10.65	
10 PERCENT EXCEEDS	140		48		94	
50 PERCENT EXCEEDS	43		21		32	
90 PERCENT EXCEEDS	19		14		15	

^a Discharge determined by indirect measurement.^b May have been less during period of estimated record.^c Estimated

ARKANSAS RIVER BASIN

07187000 SHOAL CREEK ABOVE JOPLIN, MO

LOCATION.--Lat 37°01'23", long 94°30'58", in SE ¼ NE ¼ NE ¼ sec.34, T.27 N., R.33 W., Newton County, Hydrologic Unit 11070207, on right bank 250 ft upstream from mouth of Spring Creek, 1,400 ft downstream from bridge on State Highway 86, 0.5 mi south of city limits of Joplin, and 13.2 mi above mouth.

DRAINAGE AREA.--427 mi².

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 886.87 ft above National Geodetic Vertical Datum of 1929. Apr. 21, 1924, to Nov. 6, 1941, records were collected at site about 3 mi downstream, datum unknown; Nov. 6, 1941 to July 21, 1966, water-stage recorder at site 1.8 mi upstream, at datum 15.5 ft higher.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	131	94	187	87	233	394	277	215	290	108	188
2	99	125	92	183	86	247	376	300	260	264	107	196
3	101	124	93	169	85	259	359	296	258	236	108	209
4	101	120	109	157	84	267	344	285	234	219	105	167
5	100	120	111	151	81	268	327	321	218	204	104	146
6	100	116	106	143	82	256	370	306	215	190	101	134
7	103	113	99	134	84	244	465	315	205	175	99	126
8	100	109	101	128	83	235	462	297	193	167	94	119
9	100	109	102	126	84	222	430	281	181	161	91	116
10	103	111	102	122	86	209	402	304	174	181	88	114
11	103	110	101	118	85	202	379	355	1,500	170	88	115
12	102	106	102	114	82	199	362	316	1,040	195	91	130
13	102	104	119	109	84	537	343	312	799	211	86	125
14	98	107	126	109	120	506	323	335	618	226	87	119
15	97	110	124	106	165	440	306	345	514	198	85	110
16	97	109	116	108	185	401	304	427	449	178	84	102
17	99	105	111	105	178	370	300	531	408	167	81	98
18	101	104	127	101	171	345	281	511	377	158	76	95
19	104	102	129	99	220	394	272	475	351	152	74	98
20	101	100	117	100	265	529	262	443	328	145	73	93
21	99	100	111	98	287	592	248	403	304	136	71	97
22	97	100	106	95	285	583	237	367	281	170	70	101
23	97	99	106	92	279	545	236	341	262	157	70	104
24	98	99	116	92	266	503	288	331	249	146	67	95
25	132	98	114	91	245	465	295	323	246	136	64	87
26	133	96	108	93	233	431	277	296	355	128	62	85
27	124	94	102	88	231	401	261	274	302	122	65	86
28	127	95	102	89	228	434	247	259	266	115	66	85
29	175	96	113	91	---	457	238	248	242	112	100	81
30	169	96	141	92	---	430	229	236	343	110	162	82
31	148	---	167	89	---	411	---	224	---	109	157	---
MEAN	110	107	112	115	159	375	321	333	380	172	89.8	117
MAX	175	131	167	187	287	592	465	531	1,500	290	162	209
MIN	97	94	92	88	81	199	229	224	174	109	62	81
IN.	0.30	0.28	0.30	0.31	0.39	1.01	0.84	0.90	0.99	0.46	0.24	0.31

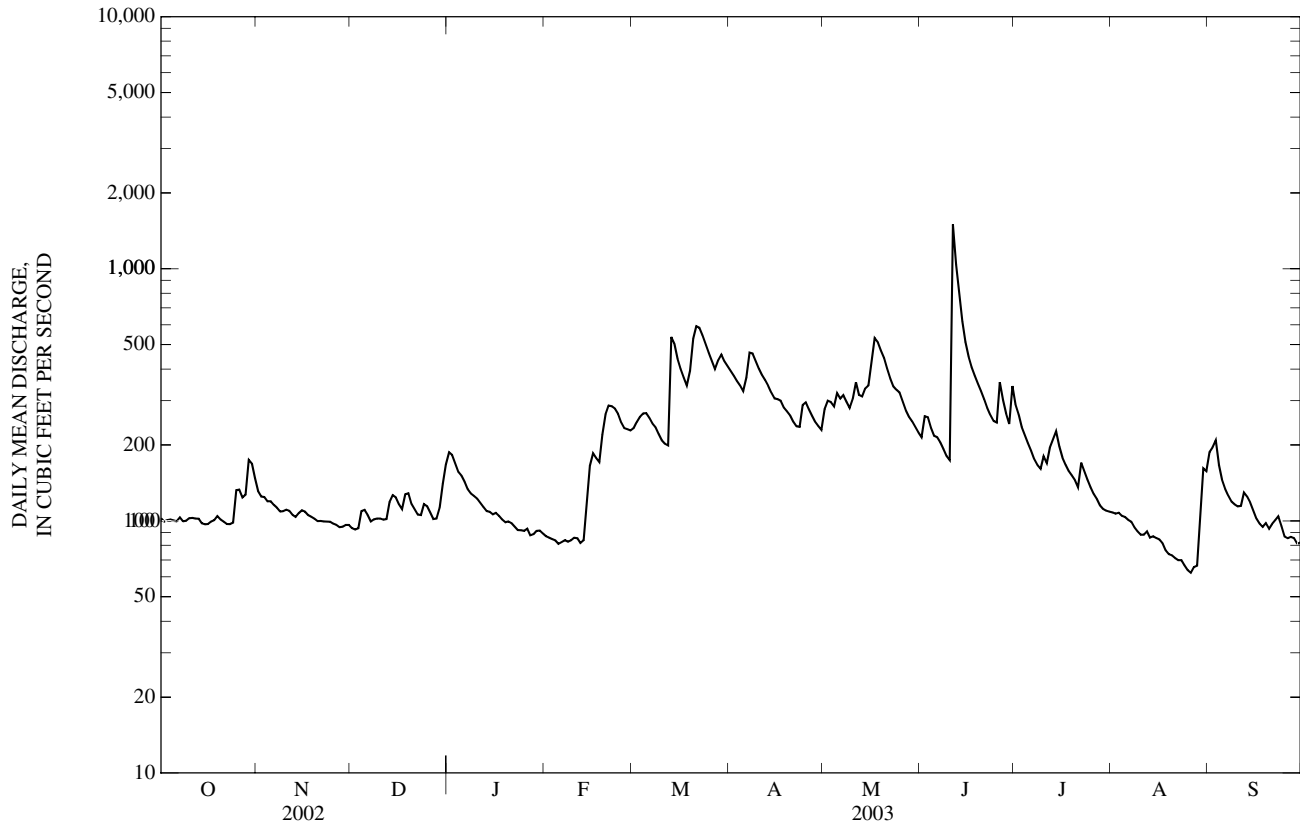
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2003, BY WATER YEAR (WY)

MEAN	288	397	353	324	389	559	645	715	575	347	213	248
MAX	1,709	2,034	1,993	1,145	1,233	1,961	3,281	4,691	2,470	2,049	2,337	1,872
(WY)	(1960)	(1986)	(1993)	(1973)	(1968)	(1973)	(1945)	(1943)	(1995)	(1993)	(1950)	(1993)
MIN	48.3	55.4	57.3	54.9	61.7	57.9	56.0	121	81.4	47.0	37.1	47.0
(WY)	(1957)	(1964)	(1964)	(1964)	(1964)	(1954)	(1954)	(1963)	(1954)	(1954)	(1954)	(1953)

07187000 SHOAL CREEK ABOVE JOPLIN, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1942 - 2003	
ANNUAL MEAN	415		199		421	
HIGHEST ANNUAL MEAN					1,221	
LOWEST ANNUAL MEAN					77.8	
HIGHEST DAILY MEAN	7,700	May 18	1,500	Jun 11	36,700	May 18, 1943
LOWEST DAILY MEAN	92	Dec 2	62	Aug 26	15	Sep 7, 1954
ANNUAL SEVEN-DAY MINIMUM	94	Nov 27	66	Aug 22	16	Sep 1, 1954
MAXIMUM PEAK FLOW	---		2,830	Jun 11	62,100	May 18, 1943
MAXIMUM PEAK STAGE	---		6.29	Jun 11	16.80 ^a	May 18, 1943
INSTANTANEOUS LOW FLOW	---		58	Aug 26	12	Sep 7, 1954
ANNUAL RUNOFF (INCHES)	13.19		6.33		13.39	
10 PERCENT EXCEEDS	850		378		863	
50 PERCENT EXCEEDS	241		132		235	
90 PERCENT EXCEEDS	102		88		89	

^a Former site and datum.



ARKANSAS RIVER BASIN

07188653 BIG SUGAR CREEK NEAR POWELL, MO

LOCATION.--Lat 36°36'57", long 94°10'57", in NW ¼ NW ¼ NE ¼ sec. 36, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, on left bank of county road, 1.0 mi west of Powell.

DRAINAGE AREA.--141 mi².

PERIOD OF RECORD.--May 25, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	14	8.1	99	18	122	95	45	95	127	19	20
2	6.9	14	7.8	79	18	148	89	54	96	48	25	41
3	7.0	15	8.2	65	18	157	83	52	88	38	20	30
4	7.2	13	14	57	17	146	78	50	78	33	18	23
5	6.9	13	14	51	17	131	70	48	71	29	18	19
6	8.9	13	12	46	18	116	70	45	66	27	17	16
7	7.0	12	11	42	18	104	66	42	60	25	16	15
8	6.8	12	11	40	17	95	61	39	54	23	15	13
9	7.4	12	12	37	17	86	57	38	50	22	15	12
10	8.0	12	10	34	18	79	55	35	47	25	14	12
11	8.0	12	10	32	18	74	52	33	181	22	13	13
12	7.7	11	10	30	18	70	50	30	191	25	13	18
13	7.9	11	15	28	19	69	48	54	136	28	13	17
14	7.7	11	17	27	30	64	46	311	113	32	13	15
15	7.8	11	18	26	59	62	44	313	97	26	12	13
16	7.9	11	18	26	63	59	43	654	83	24	11	13
17	8.0	10	16	24	60	56	41	727	74	23	11	12
18	8.4	10	16	23	59	54	40	464	67	21	9.9	11
19	12	10	16	23	92	89	39	308	61	20	9.4	11
20	13	9.5	15	23	138	170	38	229	56	19	8.9	10
21	11	9.4	16	22	125	189	36	185	51	18	8.4	10
22	9.5	9.1	15	21	127	168	34	154	47	36	8.1	11
23	9.6	9.0	16	20	142	143	34	130	44	35	7.8	11
24	9.9	9.0	18	20	132	128	46	252	41	28	7.4	9.8
25	14	9.0	17	19	115	115	48	553	39	26	7.1	9.3
26	13	8.6	15	e19	108	102	46	332	43	25	7.4	8.9
27	13	8.4	15	e23	109	93	43	233	37	23	8.0	8.9
28	15	8.1	15	e22	109	100	41	183	34	21	9.6	8.5
29	20	8.1	19	21	---	111	39	152	33	20	13	8.4
30	18	8.3	53	19	---	105	38	127	32	19	15	8.5
31	15	---	130	19	---	99	---	110	---	18	13	---
MEAN	9.98	10.8	19.0	33.5	60.7	107	52.3	193	72.2	29.2	12.8	14.3
MAX	20	15	130	99	142	189	95	727	191	127	25	41
MIN	6.8	8.1	7.8	19	17	54	34	30	32	18	7.1	8.4
IN.	0.08	0.09	0.16	0.27	0.45	0.87	0.41	1.58	0.57	0.24	0.10	0.11

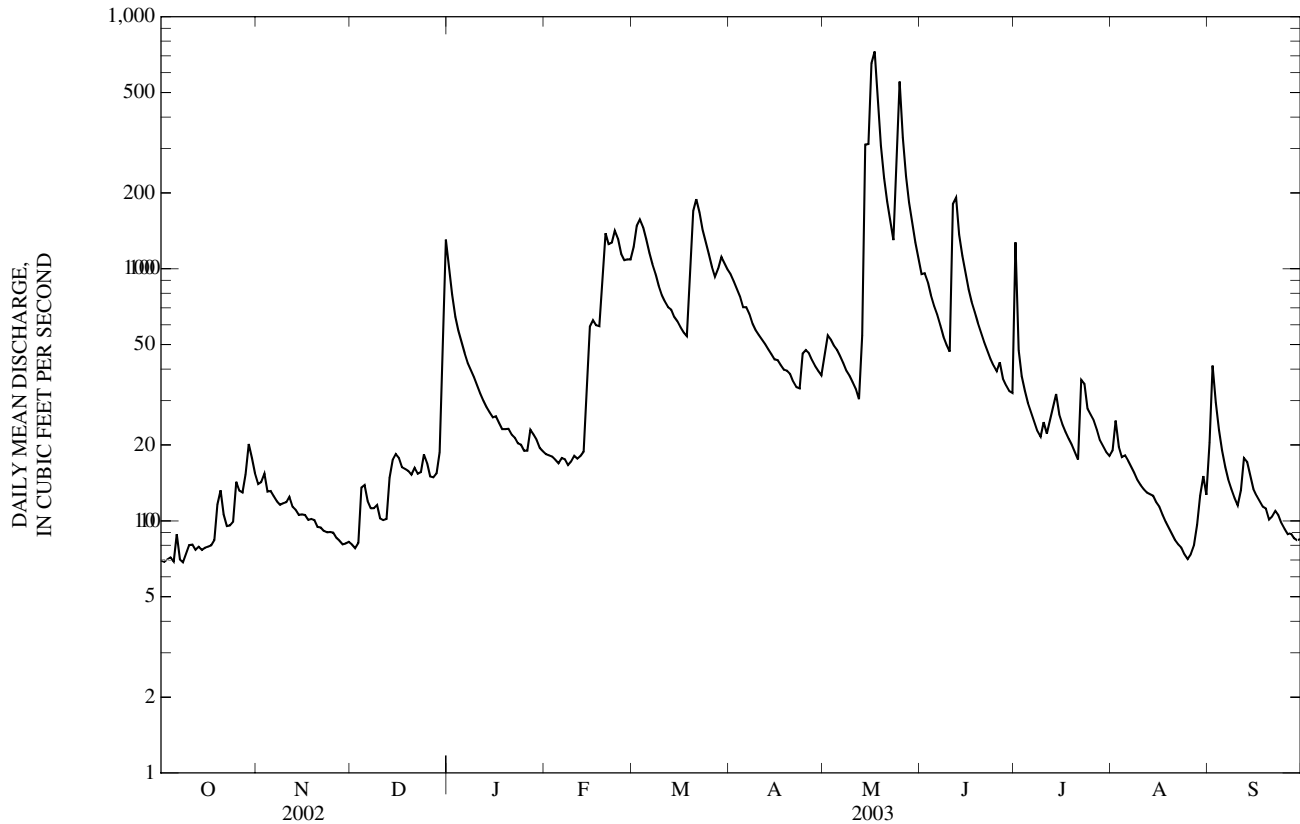
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	23.6	39.9	98.4	72.8	207	139	98.9	260	216	62.8	21.1	11.2
MAX	47.3	55.5	222	105	401	200	207	546	558	138	40.5	14.3
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(2002)	(2002)	(2000)	(2000)	(2000)	(2003)
MIN	9.98	10.8	19.0	33.5	60.7	107	37.8	42.8	53.3	27.2	9.52	9.66
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)

07188653 BIG SUGAR CREEK NEAR POWELL, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL MEAN	125		51.3		91.5	
HIGHEST ANNUAL MEAN					149	
LOWEST ANNUAL MEAN					51.3	
HIGHEST DAILY MEAN	5,420	May 17	727	May 17	6,020	Jun 17, 2000
LOWEST DAILY MEAN	6.8	Oct 8	6.8	Oct 8	5.1	Sep 20, 2000
ANNUAL SEVEN-DAY MINIMUM	7.1	Sep 29	7.2	Oct 2	5.6	Sep 16, 2000
MAXIMUM PEAK FLOW	---		1,180	May 16	15,500	Jun 17, 2000
MAXIMUM PEAK STAGE	---		6.29	May 16	18.95	Jun 17, 2000
INSTANTANEOUS LOW FLOW	---		6.6	Several Days	4.5	Sep 19, 2000
ANNUAL RUNOFF (INCHES)	12.04		4.94		8.82	
10 PERCENT EXCEEDS	261		123		183	
50 PERCENT EXCEEDS	53		23		43	
90 PERCENT EXCEEDS	9.0		8.9		9.7	

e Estimated



ARKANSAS RIVER BASIN

0718885 INDIAN CREEK NEAR LANAGAN, MO

LOCATION.--Lat 36°35'57", long 94°26'58", in NW ¼ NW ¼ NE ¼ sec. 36, T. 22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, on downstream side of Highway EE bridge, 0.5 mi southeast of Lanagan.

DRAINAGE AREA.--239 mi².

PERIOD OF RECORD.--May 24, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	47	25	75	35	109	182	119	88	70	31	50
2	38	44	25	71	35	125	178	162	95	60	34	60
3	38	43	26	65	34	139	173	145	96	54	36	54
4	37	42	35	59	34	142	162	125	88	49	33	47
5	37	40	35	55	33	135	150	113	82	46	37	43
6	38	38	30	51	34	125	193	104	78	44	33	39
7	37	36	28	48	35	114	341	103	75	41	31	36
8	37	35	28	46	34	104	298	93	71	40	29	35
9	38	33	28	45	34	93	250	87	66	39	28	34
10	39	34	28	43	36	85	216	82	63	44	27	33
11	40	33	27	41	35	79	190	78	85	44	28	34
12	40	33	26	40	35	76	170	72	93	49	31	38
13	39	32	36	39	35	76	152	137	98	54	28	39
14	37	31	40	38	46	102	138	425	94	49	28	37
15	37	32	37	38	66	97	125	297	96	44	28	35
16	37	32	34	39	72	99	123	542	89	41	27	33
17	38	32	31	38	71	97	116	731	84	39	26	32
18	39	31	31	37	68	92	107	517	80	38	25	31
19	40	30	29	38	90	105	101	391	75	37	25	31
20	39	30	28	38	133	141	96	310	73	36	24	30
21	38	30	27	37	149	221	90	245	69	35	23	34
22	38	29	26	36	144	237	86	201	66	50	e22	43
23	37	28	27	e37	136	223	84	171	63	57	e22	38
24	38	28	31	e38	127	204	130	160	61	48	e21	33
25	50	28	30	37	113	184	150	162	59	43	e21	31
26	50	27	28	36	105	165	140	146	71	39	20	28
27	49	26	27	35	103	147	127	132	65	37	24	28
28	60	26	28	35	102	165	116	120	60	35	23	26
29	72	26	32	36	---	193	106	111	56	33	37	26
30	64	26	52	36	---	193	97	102	52	32	45	26
31	54	---	74	35	---	187	---	95	---	32	42	---
MEAN	42.4	32.7	31.9	43.3	70.5	137	153	203	76.4	43.8	28.7	36.1
MAX	72	47	74	75	149	237	341	731	98	70	45	60
MIN	37	26	25	35	33	76	84	72	52	32	20	26
IN.	0.20	0.15	0.15	0.21	0.31	0.66	0.71	0.98	0.36	0.21	0.14	0.17

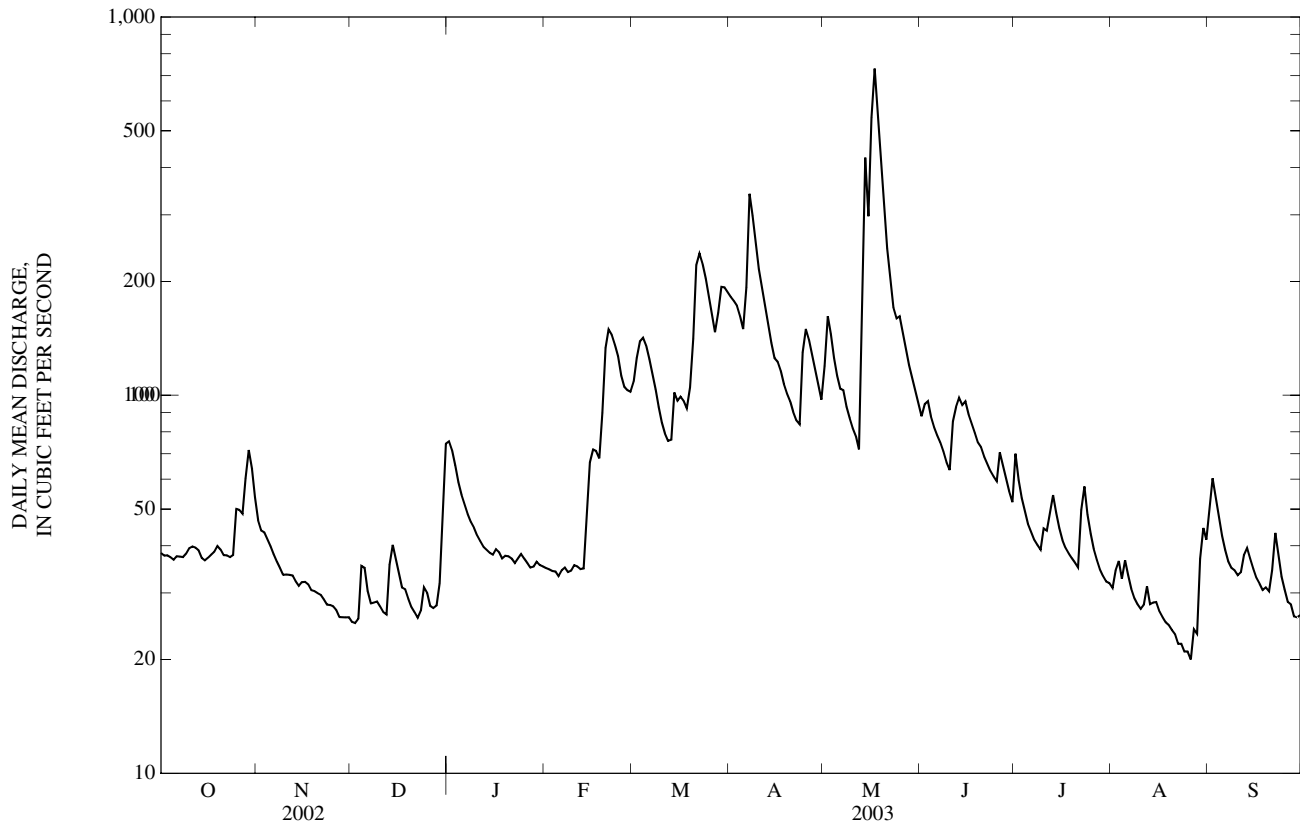
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	47.4	53.1	84.2	91.1	316	208	149	481	282	115	47.1	39.7
MAX	52.5	73.1	165	150	679	259	195	1,174	519	215	64.0	47.2
(WY)	(2002)	(2001)	(2002)	(2001)	(2001)	(2001)	(2002)	(2002)	(2000)	(2000)	(2000)	(2002)
MIN	42.4	32.7	31.9	43.3	70.5	137	99.8	67.2	76.4	43.8	28.7	32.7
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2003)	(2003)	(2003)	(2001)

07188885 INDIAN CREEK NEAR LANAGAN, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL MEAN	214		74.9		149	
HIGHEST ANNUAL MEAN					228	
LOWEST ANNUAL MEAN					74.9	
HIGHEST DAILY MEAN	5,730	May 8	731	May 17	5,800	Feb 24, 2001
LOWEST DAILY MEAN	25	Dec 1	20	Aug 26	20	Aug 26, 2003
ANNUAL SEVEN-DAY MINIMUM	26	Nov 27	22	Aug 20	22	Aug 20, 2003
MAXIMUM PEAK FLOW	---		885	May 17	11,000	Feb 24, 2001
MAXIMUM PEAK STAGE	---		3.78	May 17	10.80	Feb 24, 2001
INSTANTANEOUS LOW FLOW	---		20 ^a	Aug 26	20 ^a	Aug 26, 2003
ANNUAL RUNOFF (INCHES)	12.16		4.26		8.45	
10 PERCENT EXCEEDS	399		150		274	
50 PERCENT EXCEEDS	85		42		69	
90 PERCENT EXCEEDS	32		28		33	

e Estimated

^a May have been less during period of estimated record.

ARKANSAS RIVER BASIN

07188950 PATTERSON CREEK NEAR TIFF CITY, MO
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°39'45", long 94°31'54", in SW ¼ SE ¼ SE ¼ sec.6, T.22 N., R.33 W., McDonald County, Hydrologic Unit 11070208, 6.0 mi east of Tiff City, approximately 2.7 mi south of State Highway 43 on County Road 7628.

DRAINAGE AREA.--9.73 mi².

PERIOD OF RECORD.--November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 05...	1145	Environmental	2.0	9.0	89	7.8	330	13.1	140	53.7	1.50	1.82	
NOV 05...	1146	Replicate	--	9.2	91	7.8	330	13.1	150	57.4	1.63	1.74	
JAN 22...	1040	Environmental	1.8	10.6	86	7.9	332	5.9	--	--	--	--	
MAR 24...	1455	Environmental	8.2	9.7	106	7.5	292	17.8	--	--	--	--	
MAY 12...	1435	Environmental	2.8	8.1	88	7.6	317	18.3	150	56.8	1.73	2.05	
JUL 07...	1520	Environmental	2.6	6.8	83	7.6	310	23.2	--	--	--	--	
SEP 09...	1030	Environmental	2.0	6.7	75	7.6	343	19.1	--	--	--	--	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO ₃ (00410)	ANC, wat unfltrd, incrm. titr., field, mg/L as CaCO ₃ (00419)	Bicarbonate, wat unfltrd, incrm. titr., field, mg/L (00450)	Carbonate, wat unfltrd, incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV 05...	5.34	135	135	164	<1	8.02	<0.20	3.8	190	<10	E.10	<0.04	2.17
NOV 05...	6.03	--	--	--	--	8.40	<0.20	3.8	195	<10	E.09	<0.04	2.66
JAN 22...	--	135	133	162	<1	--	--	--	--	<10	0.12	<0.04	3.77
MAR 24...	--	109	108	132	<1	--	--	--	--	<10	0.11	<0.04	5.16
MAY 12...	5.62	147	147	179	<1	8.87	<0.17	4.3	192	<10	0.13	<0.04	3.12
JUL 07...	--	132	132	161	<1	--	--	--	--	<10	0.13	<0.04	2.99
SEP 09...	--	146	145	177	<1	--	--	--	--	<10	0.13	<0.04	3.14
Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Fecal streptococci KF MF, col/100 mL (31673)	Aluminum, water, fltrd, μg/L (01106)	Aluminum, water, unfltrd recoverable, μg/L (01105)	Arsenic water, fltrd, μg/L (01000)	Cadmium water, fltrd, μg/L (01025)	Cadmium water, unfltrd μg/L (01027)	Copper, water, fltrd, μg/L (01040)
NOV 05...	E.004	E.01	E.02	E.03	69k	77k	166	M	12	E.2	<0.04	<0.2	<6
NOV 05...	E.004	E.01	<0.04	<0.04	34k	88	191	E1	12	E.2	<0.04	<0.2	<6
JAN 22...	<0.008	E.02	E.02	0.04	1k	25	14k	--	--	--	--	--	--
MAR 24...	E.005	E.02	0.04	E.03	13k	23	120	--	--	--	--	--	--
MAY 12...	0.009	E.01	E.03	E.02	22	30	82	<2	25	E.2	<0.04	<0.2	<6
JUL 07...	0.012	<0.02	<0.04	<0.04	100	125	335	--	--	--	--	--	--
SEP 09...	E.006n	E.02n	E.02n	E.03n	--e	--e	455	--	--	--	--	--	--

07188950 PATTERSON CREEK NEAR TIFF CITY, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
NOV								
05...	<10	<0.08	<1	5.0	<0.02	<0.5	M	E1
05...	<10	E.04	<1	5.0	<0.02	<0.5	1	E1
JAN								
22...	--	--	--	--	--	--	--	--
MAR								
24...	--	--	--	--	--	--	--	--
MAY								
12...	<10	<0.08	<1	4.5	<0.02	<0.5	3	E2
JUL								
07...	--	--	--	--	--	--	--	--
SEP								
09...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail

ARKANSAS RIVER BASIN

07189000 ELK RIVER NEAR TIFF CITY, MO

LOCATION.--Lat 36°37'53", long 94°35'12", in NE ¼ NE ¼ sec.22, T.22 N., R.34 W., McDonald County, Hydrologic Unit 11070208, near right abutment of bridge on State Highway 43, 0.8 mi downstream from Blackfoot Branch, 2.8 mi upstream from Buffalo Creek, 3.0 mi southeast of Tiff City, and at mile 15.8.

DRAINAGE AREA.--872 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 927: 1940. WSP 1117: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 750.61 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Sept. 6, 1960 to Aug. 25, 1961, at site 100 ft downstream.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers' satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

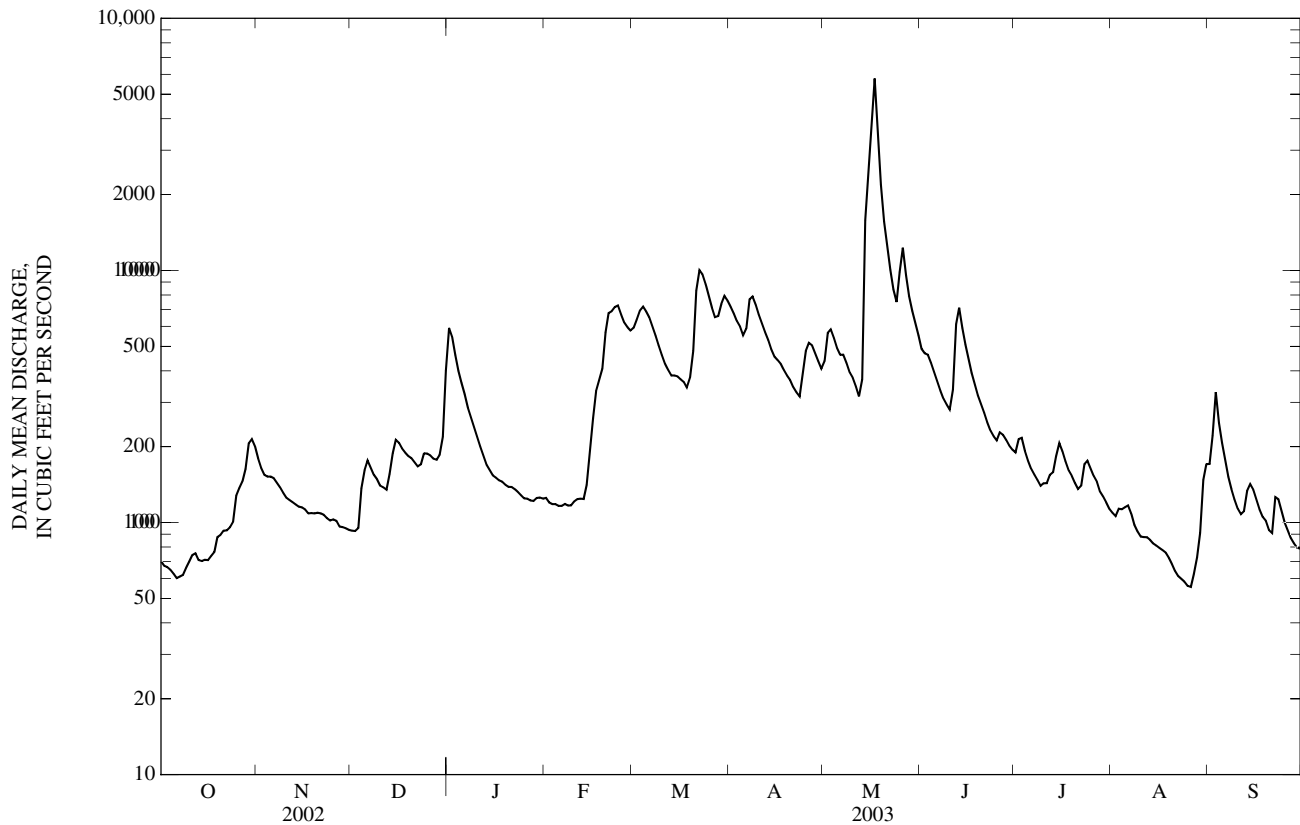
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	179	93	592	125	593	718	437	488	190	109	171
2	67	165	93	546	120	637	675	566	469	214	106	221
3	67	155	95	462	118	693	630	584	463	217	113	329
4	65	152	137	401	118	719	598	539	431	193	113	248
5	63	152	161	357	117	687	553	493	396	176	115	207
6	60	150	176	322	116	650	589	463	364	163	117	176
7	61	144	165	287	118	600	769	464	334	155	108	152
8	62	138	155	262	117	552	789	430	310	148	98	136
9	66	131	149	239	117	504	731	394	294	140	92	124
10	70	126	140	219	121	462	667	376	281	143	88	114
11	74	123	138	200	124	428	616	347	336	143	88	108
12	76	120	135	184	124	403	571	317	612	154	87	111
13	71	118	156	169	124	383	531	370	711	158	86	134
14	70	116	188	162	141	383	487	1,580	591	184	83	142
15	71	115	213	154	186	380	455	2,640	509	207	81	135
16	71	113	207	151	259	370	441	3,940	447	192	79	123
17	74	109	197	147	332	361	426	5,770	392	175	78	113
18	76	109	189	145	368	343	402	3,450	353	161	76	105
19	88	109	183	141	408	375	383	2,190	320	153	72	102
20	89	109	180	139	568	479	368	1,560	296	144	69	93
21	93	109	173	138	678	832	345	1,260	272	136	64	91
22	93	107	167	136	689	1,000	329	1,000	250	140	61	126
23	96	104	170	132	715	965	316	842	231	170	60	124
24	101	102	188	128	726	881	392	750	220	176	58	111
25	128	103	188	125	668	798	480	983	212	164	56	100
26	137	102	185	124	621	712	517	1,230	228	153	55	93
27	146	97	179	122	596	653	504	956	223	145	62	87
28	163	96	178	122	578	659	471	791	213	133	73	83
29	206	95	186	125	---	738	437	691	202	127	91	79
30	214	94	219	126	---	793	408	617	194	120	148	79
31	201	---	400	124	---	758	---	553	---	113	170	---
MEAN	96.4	121	174	216	325	606	520	1,180	355	161	88.9	134
MAX	214	179	400	592	726	1,000	789	5,770	711	217	170	329
MIN	60	94	93	122	116	343	316	317	194	113	55	79
IN.	0.13	0.16	0.23	0.29	0.39	0.80	0.67	1.56	0.45	0.21	0.12	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	412	712	763	680	888	1,328	1,571	1,520	977	483	257	289
MAX	2,938	4,094	3,651	2,509	2,971	5,020	6,119	8,964	4,245	2,565	2,418	2,164
(WY)	(1942)	(1975)	(1993)	(1985)	(1951)	(1945)	(1945)	(1943)	(1995)	(1976)	(1950)	(1993)
MIN	25.7	49.8	58.5	55.9	70.7	75.7	145	227	78.6	14.3	12.0	30.9
(WY)	(1957)	(1964)	(1964)	(1964)	(1954)	(1956)	(1956)	(1964)	(1954)	(1954)	(1954)	(1953)

07189000 ELK RIVER NEAR TIFF CITY, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL MEAN	773		332		822	
HIGHEST ANNUAL MEAN					1,881	
LOWEST ANNUAL MEAN					135	
HIGHEST DAILY MEAN	20,600	May 18	5,770	May 17	68,600	Apr 19, 1941
LOWEST DAILY MEAN	60	Oct 6	55	Aug 26	5.1	Sep 5, 1954
ANNUAL SEVEN-DAY MINIMUM	63	Oct 3	59	Aug 21	5.6	Sep 2, 1954
MAXIMUM PEAK FLOW	---		6,410	May 17	137,000	Apr 19, 1941
MAXIMUM PEAK STAGE	---		9.88	May 17	28.40	Apr 19, 1941
ANNUAL RUNOFF (INCHES)	12.04		5.17		12.81	
10 PERCENT EXCEEDS	1,600		682		1,720	
50 PERCENT EXCEEDS	355		175		340	
90 PERCENT EXCEEDS	95		85		88	



WHITE RIVER BASIN

07189000 ELK RIVER NEAR TIFF CITY, MO—Continued
(Ambient Water-Quality Monitoring Network)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1962 to June 1963, November 1965 to July 1975, October 1980 to September 1981, October 1982 to June 1990, November 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO_3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 16...	0955	Environmental	71	9.3	92	8.0	330	13.5	--	--	--	--
NOV 05...	1025	Environmental	152	9.8	95	7.8	343	12.4	140	51.7	3.36	2.44
DEC 09...	1415	Environmental	149	18.1	155	8.6	294	7.6	--	--	--	--
JAN 22...	0915	Environmental	135	11.5	88	7.8	329	3.9	160	54.5	4.66	2.25
FEB 10...	1425	Environmental	122	15.6	133	8.1	306	7.2	--	--	--	--
10...	1426	Replicate	--	15.6	129	8.1	306	7.2	--	--	--	--
MAR 24...	1330	Environmental	883	15.4	159	8.5	286	15.3	--	--	--	--
APR 14...	1340	Environmental	488	15.4	169	8.4	285	18.6	--	--	--	--
MAY 12...	1300	Environmental	319	11.6	132	8.2	292	20.4	140	51.3	3.46	1.99
JUN 16...	1320	Environmental	442	10.5	130	8.0	294	24.5	--	--	--	--
JUL 07...	1400	Environmental	156	9.5	128	8.0	295	29.1	130	48.1	3.41	2.37
07...	1401	Blank	--	--	--	--	--	--	--	0.01	<0.008	<0.16
AUG 20...	1620	Environmental	68	8.7	124	7.8	325	31.5	--	--	--	--
SEP 09...	0930	Environmental	125	6.5	78	7.7	352	23.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, field, mg/L as CaCO_3 (00410)	ANC, wat unfixed incrm. titr., field, mg/L as CaCO_3 (00419)	Bicarbonate, wat unfixed incrm. titr., field, mg/L (00450)	Carbonate, wat unfixed incrm. titr., field, mg/L (00447)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 16...	--	133	132	161	<1	--	--	--	--	<10	0.10	<0.04	2.45
NOV 05...	10.4	126	126	154	<1	11.7	<0.20	7.9	193	<10	E.09	<0.04	2.34
DEC 09...	--	129	129	144	6	--	--	--	--	<10	E.09	<0.04	1.04
JAN 22...	8.86	128	127	155	<1	11.6	<0.17	9.1	176	<10	0.12	<0.04	2.03
FEB 10...	--	135	134	164	<1	--	--	--	--	<10	0.21	<0.04	1.92
10...	--	--	--	--	--	--	--	--	--	<10	0.11	<0.04	1.96
MAR 24...	--	122	120	134	6	--	--	--	--	<10	E.07	<0.04	2.43
APR 14...	--	118	119	143	1	--	--	--	--	<10	0.21	<0.04	1.79
MAY 12...	6.73	127	128	157	<1	9.46	<0.17	7.4	182	<10	0.23	<0.04	1.00
JUN 16...	--	126	126	154	<1	--	--	--	--	<10	0.16	<0.04	1.27
JUL 07...	6.68	129	129	157	<1	9.35	<0.20	7.2	178	<10	0.19	<0.04	0.70
07...	E.06	--	--	--	--	<0.20	<0.20	<0.2	<10	<10	<0.10	<0.04	<0.06
AUG 20...	--	131	132	161	<1	--	--	--	--	<10	0.18	<0.04	0.39
SEP 09...	--	137	137	167	<1	--	--	--	--	<10	0.16	<0.04	0.95

07189000 ELK RIVER NEAR TIFF CITY, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)
OCT 16...	E.004	0.35	0.36	0.35	12k	21k	20	--	--	--	--	--	--
NOV 05...	<0.008	0.35	0.32	0.35	16k	31	10k	<2	6	0.4	<0.04	<0.2	<6
DEC 09...	<0.008	0.06	0.05	0.06	3k	5k	2k	--	--	--	--	--	--
JAN 22...	<0.008	0.27	0.27	0.29	7k	27	7k	E1	4	0.3	<0.04	<0.2	<6
FEB 10...	E.006	0.16	0.17	0.18	<1b	<1b	3k	--	--	--	--	--	--
10...	E.006	0.17	0.17	0.18	<1b	<1b	<1b	--	--	--	--	--	--
MAR 24...	E.007	0.10	0.11	0.11	5k	8k	7k	--	--	--	--	--	--
APR 14...	0.010	0.16	0.16	0.18	1k	5k	3k	--	--	--	--	--	--
MAY 12...	0.014	0.13	0.16	0.16	5k	8k	7k	E2	E2	0.4	<0.04	<0.2	<6
JUN 16...	E.006	0.07	0.08	0.10	25	21	20	--	--	--	--	--	--
JUL 07...	E.007	0.15	0.17	0.18	7k	33	13k	3	15	0.5	<0.04	<0.2	<7
07...	<0.008	<0.02	<0.04	<0.04	--	--	--	<2	<2	<0.3	<0.04	<0.2	<7
AUG 20...	E.005n	E.12nd	0.11	0.11	16k	18k	85	--	--	--	--	--	--
SEP 09...	<0.008	0.07	0.08	0.09	--e	--e	84	--	--	--	--	--	--

07189000 ELK RIVER NEAR TIFF CITY, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover- able, µg/L (71900)	Selen- ium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)
OCT 16...	--	--	--	--	--	--	--	--
NOV 05...	<10	0.10	<1	E1.1n	<0.02	<0.5	1	<2
DEC 09...	--	--	--	--	--	--	--	--
JAN 22...	E6	<0.08	M	E.9	<0.02	<0.5	4	3
FEB 10...	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--
MAY 12...	<10	<0.08	<1	2.2	<0.02	<0.5	3	E2
JUN 16...	--	--	--	--	--	--	--	--
JUL 07...	<8	<0.08	<1	4.5	<0.02	<0.5	1	<2
AUG 20...	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than
 E -- Estimated value
 M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below
 d -- Diluted sample: method hi range exceeded
 k -- Counts outside acceptable range
 n -- Below the LRL and above the LT-MDL

Null value qualifier codes used in this table:

e -- Required equipment not functional/avail

07189100 BUFFALO CREEK AT TIFF CITY, MO

LOCATION.--Lat 36°40'15", long 94°36'14", in NW ¼ NE ¼ SE ¼ sec. 4, T.22 N., R.34 W., McDonald County, Hydrologic Unit 11070208, on downstream side of Highway 76 bridge, 0.5 mi east of Tiff City.

DRAINAGE AREA.--60.8 mi².

PERIOD OF RECORD.--May 24, 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is unknown.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 5 ft³/s, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.44	13	1.5	49	4.1	38	76	37	25	19	3.1	33
2	0.35	10	1.5	45	4.1	47	66	34	27	17	4.0	47
3	0.30	8.6	1.7	38	4.2	61	58	33	25	16	3.8	49
4	0.28	6.7	3.8	32	3.9	63	51	32	24	14	3.5	39
5	0.25	6.2	3.3	26	3.9	59	44	30	23	13	3.6	30
6	0.20	5.0	3.0	21	4.2	51	77	27	22	12	2.8	23
7	0.21	4.3	3.2	17	4.0	43	202	24	20	10	1.5	18
8	0.22	4.0	3.0	15	3.8	39	185	23	18	9.0	2.2	14
9	0.23	3.8	3.0	13	4.3	34	147	21	17	8.1	2.0	11
10	0.23	3.7	3.1	11	4.4	30	119	19	16	9.4	1.5	8.4
11	0.19	3.4	3.1	9.7	4.3	26	98	17	845	8.1	1.2	7.4
12	0.23	3.1	3.1	8.7	3.9	24	81	16	517	9.2	1.4	7.0
13	0.19	2.9	5.0	7.9	4.1	23	68	21	290	7.8	1.5	6.6
14	0.15	2.8	6.3	7.3	9.0	33	58	39	171	7.5	2.0	5.6
15	0.18	2.6	7.7	7.0	13	34	51	44	118	7.1	1.9	4.8
16	0.16	2.5	8.6	7.0	25	30	47	416	90	6.3	1.6	4.2
17	0.14	2.3	9.2	6.0	37	28	42	602	72	5.6	0.95	3.8
18	0.17	2.3	11	5.5	37	27	38	305	60	5.1	0.95	4.1
19	0.22	2.1	12	5.5	45	33	35	187	50	4.6	1.0	4.3
20	0.28	2.0	13	5.3	94	120	32	135	44	4.1	0.93	3.3
21	0.25	2.0	13	5.2	102	201	29	97	39	3.6	0.66	3.1
22	0.29	1.9	12	4.9	85	159	26	74	34	5.4	0.41	3.3
23	0.31	1.8	11	4.6	70	128	25	57	31	4.6	0.26	2.9
24	0.34	1.9	11	4.3	57	108	31	52	28	4.5	0.24	2.8
25	1.3	1.8	9.0	4.2	47	90	35	52	25	4.6	0.22	2.5
26	1.2	1.7	8.0	4.2	40	73	41	49	32	4.5	0.20	2.2
27	2.3	1.7	7.4	4.1	37	61	42	44	32	4.0	0.21	1.9
28	5.3	1.6	7.1	4.2	36	69	40	39	29	3.4	0.23	1.8
29	14	1.6	8.4	4.4	---	93	37	35	26	3.0	8.8	1.7
30	12	1.6	19	4.4	---	101	33	32	22	2.7	22	2.0
31	13	---	36	4.3	---	89	---	28	---	2.4	23	---
MEAN	1.77	3.63	8.00	12.4	28.1	65.0	63.8	84.5	92.4	7.60	3.15	11.6
MAX	14	13	36	49	102	201	202	602	845	19	23	49
MIN	0.14	1.6	1.5	4.1	3.8	23	25	16	16	2.4	0.20	1.7
IN.	0.03	0.07	0.15	0.24	0.48	1.23	1.17	1.60	1.70	0.14	0.06	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

MEAN	9.49	15.8	27.8	53.0	128	67.6	57.2	187	137	22.4	4.39	4.38
MAX	23.3	26.1	66.8	98.2	256	70.2	81.4	466	254	49.0	8.27	11.6
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(2002)	(2002)	(2000)	(2000)	(2000)	(2003)
MIN	1.77	3.63	8.00	12.4	28.1	65.0	26.3	12.2	57.6	7.60	2.68	0.66
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2002)	(2003)	(2002)	(2002)

07189100 BUFFALO CREEK AT TIFF CITY, MO—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL MEAN	71.4		31.7		55.0	
HIGHEST ANNUAL MEAN					80.1	
LOWEST ANNUAL MEAN					31.7	
HIGHEST DAILY MEAN	1,730	May 13	845	Jun 11	2,390	Jun 21, 2000
LOWEST DAILY MEAN	0.11	Sep 18	0.14	Oct 17	0.11	Sep 18, 2002
ANNUAL SEVEN-DAY MINIMUM	0.17	Oct 13	0.17	Oct 13	0.17	Oct 13, 2002
MAXIMUM PEAK FLOW	---		1,690	Jun 11	5,500	Jun 3, 2001
MAXIMUM PEAK STAGE	---		6.43	Jun 11	10.23	Jun 3, 2001
INSTANTANEOUS LOW FLOW	---		0.11	Oct 16,17	0.09	Sep 17, 2002
ANNUAL RUNOFF (INCHES)	15.95		7.09		12.30	
10 PERCENT EXCEEDS	112		69		101	
50 PERCENT EXCEEDS	14		9.0		16	
90 PERCENT EXCEEDS	0.35		1.1		1.8	

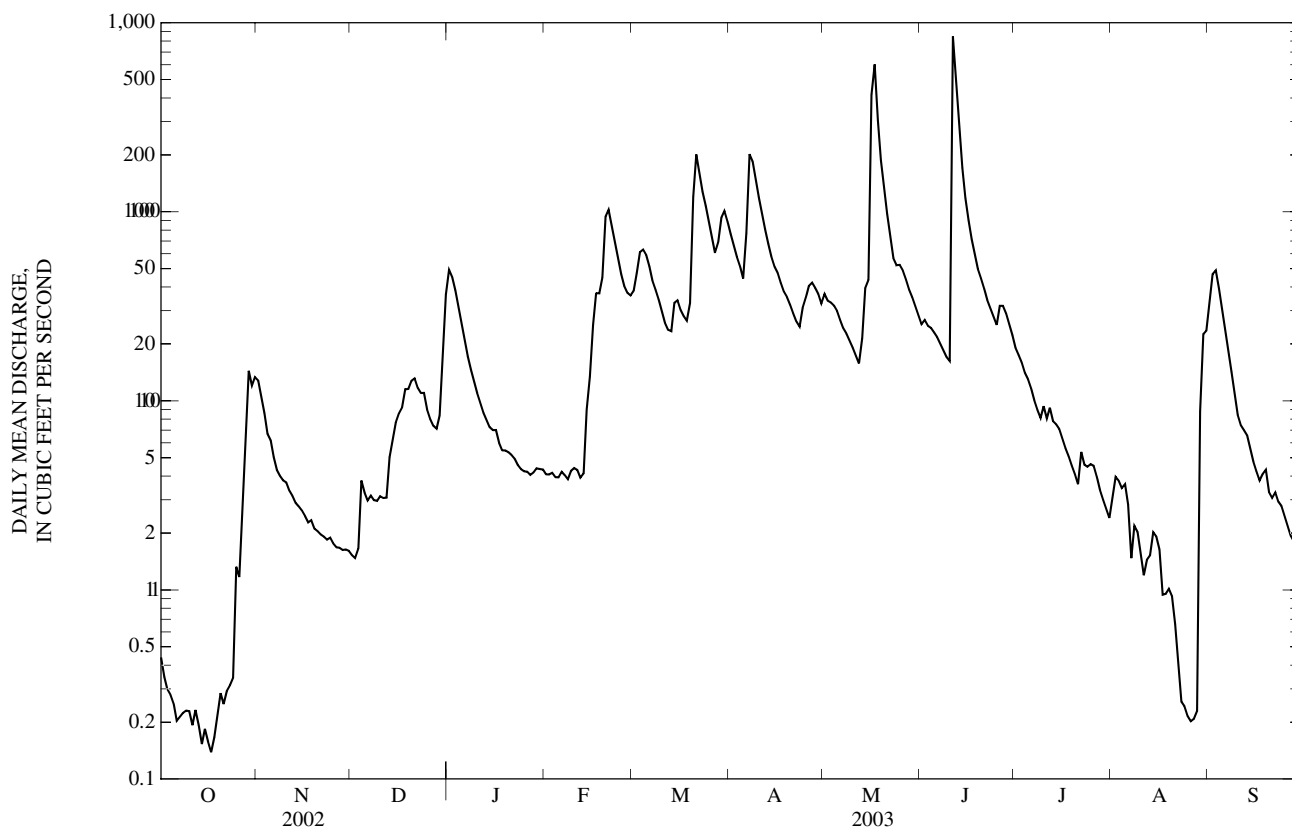




Figure 15. Location of partial-record stations.

DISCHARGE AT PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage partial-record stations. A crest-stage gage is a device which will register the peak stage occurring at the station between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Fabius River Basin								
05497485 Brushy Creek near Queen City, Mo.	Lat 40°24'01", long 92°25'31", in NE 1/4 sec.35, T.65 N., R.14 W., Hydrologic Unit 07110002, Schuyler County, on downstream side of bridge on State Highway E, about 7 miles east of Queen City. Drainage area 5.35 mi ² , slope 23.1 ft/mi.	1997-2003	+	<6.66	+	05-14-2002	12.32	2,020 ^a
05499200 Little Fabius River near Edina, Mo.	Lat 40°03'29", long 92°10'29", in SW 1/4 sec.30, T.61 N., R.11 W., Hydrologic Unit 07110003, Knox County, on downstream side of bridge on State Highway 15, about 7 miles south of Edina. Drainage area 23.8 mi ² , slope 7.02 ft/mi.	1997-2003	05-04-03	10.85	484	05-14-2002	18.17	4,660 ^a
05499900 Troublesome Creek near Ewing, Mo.	Lat 39°59'52", long 91°50'37", in SE 1/4 sec.13, T.60 N., R.9 W., Hydrologic Unit 07110003, Lewis County, on downstream side of bridge on State Highway 156, about 7 miles south of Lewistown. Drainage area 92.3 mi ² , slope 4.57 ft/mi.	1997-2003	06-26-03	15.16	843	05-14-2002	19.98	+
Salt River Basin								
05506193 Mud Creek near Moberly, Mo.	Lat 39°34'34", long 92°20'59", at center sec.10, T.55 N., R.13 W., Hydrologic Unit 07110006, Randolph County, on downstream side of bridge on State Highway J, about 16 miles northeast of Moberly. Drainage area 24.0 mi ² , slope 11.6 ft/mi.	1997-2003	09-01-03	11.51	1,050	05-10-2002	15.07	6,500 ^a

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Cuivre River Basin								
05514170 Irvine Branch near Bowling Green, Mo.	Lat 39°17'24", long 91°16'07", in SW 1/4 sec.8, T.52 N., R.3 W., Hydrologic Unit 07110008, Pike County, on downstream side of bridge on State Highway Y, about 6 miles southwest of Bowling Green. Drainage area 12.9 mi ² , slope 26.3 ft/mi.	1997-2003	06-26-03	18.66	6,180 ^a	06-26-03	18.66	6,180 ^a
			06-04-01	14.31	1,850 ^{bd}			
			05-16-02	13.32	1,490 ^{ad}			
Little Tarkio Creek Basin								
06815530 Little Tarkio Creek near Tarkio, Mo.	Lat 40°24'38", long 95°16'23", in SE 1/4 sec.27, T.65 N., R.39 W., Hydrologic Unit 10240005, Atchison County, on downstream side of bridge on State Highway N, 7 miles east of Tarkio. Drainage area 16.1 mi ² , slope 19.0 ft/mi.	1997-2003	+	<10.35	+	06-14-2001	19.5± ^{cd}	3,900 ^{ad}
Platte River Basin								
06819025 Agee Creek near Savannah, Mo.	Lat 40°03'41", long 94°42'01", at center sec.26, T.61 N., R.34 W., Hydrologic Unit 10240012, Andrew County, on downstream side of bridge on State Highway 48, 14 miles northeast of Savannah. Drainage area 6.54 mi ² , slope 24.5 ft/mi.	1997-2003	+	<11.05	+	06-19-2001	18.85	+
Fishing River Basin								
06894250 New Hope Creek near Holt, Mo.	Lat 39°27'29", long 94°18'22", in SW 1/4 sec.30, T.54 N., R.30 W., Hydrologic Unit 10300101, Clinton County, on downstream side of bridge on State Highway PP, 2 miles east of Holt. Drainage area 6.79 mi ² , slope 28.6 ft/mi.	1997-2003	+	<6.69	+	10-05-1998	14.39	+
Tabo Creek Basin								
06895192 Tabo Creek near Higginsville, Mo.	Lat 39°04'40", long 93°46'12", in NW 1/4 sec.3, T.49 N., R.26 W., Hydrologic Unit 10300101, Lafayette County, on downstream side of bridge on State Highway FF, 2 miles west of Higginsville. Drainage area 24.0 mi ² , slope 11.4 ft/mi.	1997-2003	05-05-03	9.58	325	02-12-1999	19.80	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Grand River Basin								
06896370 Big Muddy Creek near Bethany, Mo.	Lat 40°25'38", long 94°10'31", in NW 1/4 sec.21, T.65 N., R.29 W., Hydrologic Unit 10280101, Harrison County, on downstream side of bridge on State Highway M, 18 miles northwest of Bethany. Drainage area 29.4 mi ² , slope 14.2 ft/mi.	1997-2003	+	<8.22	+	04-08-2001	16.39	+
06897507 Marrowbone Creek near Gallatin, Mo.	Lat 39°49'02", long 94°05'34", in SW 1/4 sec.19, T.58 N., R.28 W., Hydrologic Unit 10280101, Daviess County, on downstream side of bridge on State Highway J, 12 miles southwest of Gallatin. Drainage area 17.7 mi ² , slope 17.1 ft/mi.	1997-2003	+	<8.35	+	10-05-1998	17.43	+
06900690 Smokey Creek near Linneus, Mo.	Lat 39°52'51", long 93°19'39", in NE 1/4 sec.2, T.58 N., R.22 W., Hydrologic Unit 10280103, Linn County, on downstream side of bridge on State Highway B, about 7 miles west of Linneus. Drainage area 10.5 mi ² , slope 13.5 ft/mi.	1997-2003	+	<10.63	+	02-08-2001	15.43	+
06901100 Locust Creek at Reger, Mo.	Lat 40°08'31", long 93°11'07", in NE 1/4 SW 1/4 SE 1/4 sec.30, T.62 N., R.20 W., Hydrologic Unit 10280201, Sullivan County, on downstream side of State Highway 6 and 0.3 mile east of Reger. Datum of gage is 774.67 ft above sea level. Drainage area 232 mi ² .	1987-2003	05-11-03	3.75	391	07-07-1993	21.88	19,700
06903190 Rock Branch near Carrollton, Mo.	Lat 39°32'10", long 93°27'32", in SE 1/4 sec.34, T.55 N., R.23 W., Hydrologic Unit 10280103, Carroll County, on downstream side of bridge on State Highway WW, 12 miles north of Carrollton. Drainage area 4.45 mi ² , slope 30.6 ft/mi.	1997-2003	09-01-03	10.01	170	11-02-1998	14.53	+
Chariton River Basin								
06904600 Spring Creek near Milan, Mo.	Lat 40°20'34", long 92°57'18", in SE 1/4 sec.18, T.64 N., R.18 W., Hydrologic Unit 10280202, Sullivan County, on downstream side of bridge on State Highway 129, 16 miles northeast of Milan or about 5.5 miles north of Green City. Drainage area 13.7 mi ² , slope 17.8 ft/mi.	1997-2003	+	<7.38	+	06-06-2001	12.13	+

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Chariton River Basin--Continued								
06904950 Walnut Creek near Novinger, Mo.	Lat 40°06'24", long 92°45'23", in NW 1/4 sec.12, T.61 N., R.17 W., Hydrologic Unit 10280202, Adair County, on downstream side of bridge on State Highways 11 and 149, 11 miles south of Novinger. Drainage area 13.5 mi ² , slope 14.1 ft/mi.	1997-2003	+	<8.93	+	05-12-2002	22.14	14,000 ^a
Lamine River Basin								
06906715 Lake Creek near Cole Camp, Mo.	Lat 38°30'37", long 93°08'25", in NW 1/4 sec.9, R.43 N., R.20 W., Hydrologic Unit 10300103, Benton County, on downstream side of bridge on State Highway JJ, 6 miles northeast of Cole Camp. Drainage area 12.2 mi ² , slope 35.3 ft/mi.	1997-2003	05-05-03	7.65	1,470	04-13-2001	15.08	+
06907710 Little Walnut Creek near Knob Noster, Mo.	Lat 38°50'40", long 93°32'50", in SW 1/4 sec.22, T.47 N., R.24 W., Hydrologic Unit 10300104, Johnson County, on downstream side of bridge on State Highway 23, 5 miles north of Knob Noster. Drainage area 8.20 mi ² , slope 23.3 ft/mi.	1997-2003	05-11-03	10.96	+	07-30-1998	15.66	+
06908495 Camp Creek near Marshall, Mo.	Lat 39°06'12", long 93°03'21", in NW 1/4 sec.24, T.50 N., R.20 W., Hydrologic Unit 10300104, Saline County, on downstream side of bridge on State Highway 41, 7 miles east of Marshall. Drainage area 10.8 mi ² , slope 16.9 ft/mi.	1997-2003	05-06-03	12.93	2,180 ^a	06-08-2001 05-12-2002	14.24	+
Bonne Femme Creek Basin								
06909220 Ganaway Creek near Fayette, Mo.	Lat 39°15'54", long 92°39'51", in NW 1/4 sec.36, T.52 N., R.16 W., Hydrologic Unit 10300102, Howard County, on downstream side of culvert on State Highway U, 11 miles north of Fayette or 2.5 miles east of Armstrong. Drainage area 4.55 mi ² , slope 57.9 ft/mi.	1997-2003	05-19-03	15.17	1,530 ^a	05-19-2003	15.17	1,530 ^a
Moniteau Creek Basin								
06910265 Moniteau Creek near California, Mo.	Lat 38°43'57", long 92°38'17", in E 1/2 sec.23, T.46 N., R.16 W., Hydrologic Unit 10300102, Cooper County, on downstream side of bridge on State Highway O, 9 miles northwest of California. Drainage area 67.6 mi ² , slope 16.0 ft/mi.	1997-2003	05-05-03	12.87	+	07-30-1998	15.60	+
			07-30-98	15.60	+ ^d			
			06-08-01	14.49	+ ^d			
			08-22-02	11.01	4,760 ^d			

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Osage River Basin								
06918270 Clear Creek near Nevada, Mo.	Lat 37°41'20", long 94°13'35", in SW 1/4 sec.16, T.34 N., R.30 W., Hydrologic Unit 10290105, Vernon County, on downstream side of bridge on State Highway DD, 16 miles southeast of Nevada. Drainage area 23.2 mi ² , slope 13.5 ft/mi.	1997-2003	06-07-03	7.69	304	05-05-1999	16.29	+
			05-08-02	13.65	1,660 ^d			
06919004 Bear Creek near Bolivar, Mo.	Lat 37°35'00", long 93°28'02", in NW 1/4 sec.21, T.33 N., R.23 W., Hydrologic Unit 10290106, Polk County, on downstream side of bridge on State Highway T, 3.5 miles southwest of Bolivar. Drainage area 7.45 mi ² , slope 26.0 ft/mi.	1997-2003	08-25-03	4.93	+	05-05-1999	8.35	1,850 ^b
06921712 Clear Creek near Harrisonville, Mo.	Lat 38°37'35", long 94°11'27", in NW 1/4 sec.12, T.44 N., R.30 W., Hydrologic Unit 10290108, Cass County, on downstream side of bridge on State Highway Z, 9 miles east of Harrisonville. Drainage area 11.4 mi ² , slope 14.8 ft/mi.	1997-2003	06-07-03	9.28	+	05-09-2002	14.83	+
06925432 Barnett Hollow near Camdenton, Mo.	Lat 37°59'52", long 92°31'39", in SW 1/4 sec.25, T.38 N., R.15 W., Hydrologic Unit 10290109, Camden County, on downstream side of bridge on State Highway A, 14 miles east of Camdenton or 5 miles northeast of Montreal. Drainage area 6.98 mi ² , slope 55.5 ft/mi.	1997-2003	+	<3.70	+	04-19-2002	7.00	1,700 ^a
Gasconade River Basin								
06927746 Selvage Hollow near Lebanon, Mo.	Lat 37°33'13", long 92°40'52", in NW 1/4 sec.27, T.33 N., R.16 W., Hydrologic Unit 10290201, Laclede County, on downstream side of culvert on State Highway C, 5.5 miles east of Phillipsburg or 9 miles south of Lebanon. Drainage area 9.72 mi ² slope 40.2 ft/mi.	1997-2003	06-14-03	2.97	39	07-28-2001	5.49	1,430 ^b
06928850 Hamilton Creek near Cabool, Mo.	Lat 37°11'47", long 92°05'43", in N 1/2 sec.13, T.29 N., R.11 W., Hydrologic Unit 10290202, Texas County, on downstream side of bridge on State Highway PP, 5 miles north of Cabool. Drainage area 9.29 mi ² , slope 42.9 ft/mi.	1997-2003	04-29-03	8.25	3,480	05-20-2002	9.42	4,600 ^a

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Loutre River Basin								
06934680 Dry Fork near Hermann, Mo.	Lat 38°46'29", long 91°33'53", in SW 1/4 sec.2, T.46 N., R.6 W., Hydrologic Unit 10300200, Montgomery County, on downstream side of bridge on State Highway P, 11 miles northwest of Hermann or 20 miles south of Montgomery City. Drainage area 7.66 mi ² , slope 68.7 ft/mi.	1997-2003	09-05-03	7.48	+	12-18-2001	7.56	+
Boeuf Creek Basin								
06935175 Cedar Fork near Gerald, Mo.	Lat 38°27'44", long 91°18'29", in NW 1/4 sec.19, T.43 N., R.3 W., Hydrologic Unit 10300200, Franklin County, on downstream side of bridge on State Highway ZZ, 4.5 miles north of Gerald. Drainage area 8.53 mi ² , slope 34.3 ft/mi.	1997-2003	05-06-03	11.21	1,720 ^a	05-07-2000	17.70	11,600 ^{ad}
			02-26-01	9.34	886 ^d			
			04-20-02	11.07	1,610 ^d			
Meramec River Basin								
07015757 Upper Peavine Creek near Belle, Mo.	Lat 38°11'54", long 91°42'03", in SE 1/4 sec.16, T.40 N., R.7 W., Hydrologic Unit 07140103, Maries County, on downstream side of bridge on State Highway C, 7 miles south of Belle. Drainage area 6.79 mi ² , slope 32.0 ft/mi	1997-2003	06-11-03	9.39	757	06-22-1997	12.19	2,660 ^d
			06-04-98	10.04	1,040 ^{bd}			
			02-25-01	9.33	734 ^d			
			05-09-02	9.21	688 ^d			
07017733 Bates Creek at Potosi, Mo.	Lat 37°56'35", long 90°48'23", near sec.9, T.37 N., R.2 E., Hydrologic Unit 07140104, Washington County, on downstream side of bridge on State Highway 8, 0.5 mile west of Potosi. Drainage area 14.1 mi ² , slope 39.8 ft/mi.	1997-2003	05-04-03	5.96	430 ^a	11-06-1997	8.64	2,050 ^b
Headwater Diversion Channel Basin								
07020895 Castor River near Fredericktown, Mo.	Lat 37°34'40", long 90°09'50", in S 1/2 sec.4, T.33 N., R.8 E., Hydrologic Unit 07140107, Madison County, on downstream side of bridge on State Highway J, 7 miles east of Fredericktown. Drainage area 33.5 mi ² , slope 28.6 ft/mi.	1997-2003	04-25-03	8.16	1,370	04-03-1999	15.58	11,500 ^a
			02-25-01	8.30	1,410 ^d			
			05-20-02	12.30	3,100 ^d			

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
Headwater Diversion Channel Basin--Continued								
07020965 Bear Creek near Patterson, Mo.	Lat 37°13'30", long 90°19'31", in SW 1/4 sec.31, T.30 N., R.7 E., Hydrologic Unit 07140107, Wayne County, on downstream side of bridge on State Highway 34, 10.5 miles east of Patterson or 20 miles west of Marble Hill. Drainage area 13.1 mi ² , slope 33.5 ft/mi.	1997-2003	06-12-03	7.83	808	05-19-2002	13.46	8,890 ^a
White River Basin								
07050545 North Carolina Creek near Marshfield, Mo.	Lat 37°14'53", long 93°00'30", in SE 1/4 sec.4, T.29 N., R.19 W., Hydrologic Unit 11010002, Webster County, on downstream side of culvert on State Highway B, 8 miles southwest of Marshfield. Drainage area 6.30 mi ² , slope 57.0 ft/mi.	1997-2003	06-13-03	2.81	57	05-20-2002	5.51	+
07052370 Dry Crane Creek near Crane, Mo.	Lat 36°56'18", long 93°26'05", in SE 1/4 sec.22, T.26 N., R.23 W., Hydrologic Unit 11010002, Stone County, on downstream side of bridge on State Highway A, 10 miles east of Crane. Drainage area 10.9 mi ² , slope 29.6 ft/mi.	1997-2003	+	<8.30	+	03-20-1998	8.79	+
07054047 Little Beaver Creek near Ava, Mo.	Lat 36°53'55", long 92°52'04", in SW 1/4 sec.36, T.26 N., R.18 W., Hydrologic Unit 11010003, Douglas County, on downstream side of bridge on State Highway T, 13 miles southwest of Ava. Drainage area 25.5 mi ² , slope 47.4 ft/mi.	1997-2003	+	<7.16	+	05-19-2002	10.72	3,380 ^b
07061260 East Fork Black River near Iron- ton, Mo.	Lat 37°36'14", long 90°47'19", in SE 1/4 sec.35, T.34 N., R.2 E., Hydrologic Unit 11010007, Iron County, on downstream side of bridge on State Highway N, 10 miles west of Ironton at Iron/Reynolds County line. Drainage area 16.2 mi ² , slope 60.7 ft/mi.	1997-2003	06-12-03	8.57	1,130	05-19-2002	15.41	9,900 ^a
07063470 Tenmile Creek near Poplar Bluff, Mo.	Lat 36°46'59", long 90°33'35", in SE 1/4 sec.30, T.25 N., R.5 E., Hydrologic Unit 11010007, Butler County, on downstream side of bridge on State Highway TT, 8 miles west of Poplar Bluff. Drainage area 59.0 mi ² , slope 17.0 ft/mi.	1997-2003	09-03-03	12.90	10,200 ^a	05-19-2002	13.81	11,700 ^b
			04-06-97	11.82	8,130 ^{bd}			
			07-29-01	5.56	1,500 ^d			

Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2003 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft ³ /s)	Probable date	Gage height (feet)	Discharge (ft ³ /s)
White River Basin--Continued								
07071750 Louse Creek near Alton, Mo.	Lat 36°34'37", long 91°19'06", near center sec.8, T.22 N., R.3 W., Hydrologic Unit 11010011, Oregon County, on downstream side of bridge on State Highway E, 10 miles southeast of Alton. Drainage area 5.69 mi ² , slope 48.1 ft/mi.	1997- 2003	07-01-03	6.18	400 ^a	04-05-1997	7.20	738 ^d
			01-30-02	5.74	291 ^d			

+ Not determined.

^a Discharge determined by indirect method.^b Rating extrapolated beyond indirect peak discharge.^c From floodmark.^d Revised.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations are sites where chemical-quality, biological, and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected bi-annually rather than quarterly.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	ANC, wat unf fixed end pt, field, mg/L as CaCO_3 (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO_3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Carbonate, wat unf incrm. titr., field, mg/L (00447)
07064400 MONTAUK SPRINGS AT MONTAUK												
OCT 09...	1100	Environmental	61	7.1	70	7.7	315	13.7	160	160	195	<1
MAY 07...	1145	Environmental	111	8.2	82	6.9	262	13.6	125	126	154	<1
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK												
OCT 09...	0945	Environmental	71	9.8	97	8.0	315	13.6	152	151	185	<1
MAY 07...	1350	Environmental	151	12.3	131	7.7	263	16.5	122	122	149	<1
07...	1351	Blank	--	--	--	--	--	--	--	--	--	--
07064530 WELCH SPRING NEAR AKERS												
OCT 08...	0855	Environmental	110	9.2	91	7.6	335	13.7	174	173	211	<1
MAY 07...	0930	Environmental	1,760	8.2	82	6.9	245	13.5	123	124	151	<1
07064555 PULLTITE SPRING NEAR ROUND SPRING												
OCT 08...	1100	Environmental	33	8.2	83	7.8	304	13.9	146	147	179	<1
MAY 06...	1330	Environmental	113	9.7	97	7.0	221	13.4	105	106	129	<1
07065000 ROUND SPRING AT ROUND SPRING												
OCT 08...	1245	Environmental	31	7.8	79	7.7	335	14.4	179	179	218	<1
MAY 05...	1110	Environmental	53	10.3	104	7.1	223	13.8	111	112	137	<1
07065500 ALLEY SPRING AT ALLEY												
OCT 08...	1420	Environmental	98	9.0	90	7.7	309	14.0	159	158	193	<1
08...	1421	Replicate	--	--	--	--	--	--	--	--	--	--
MAY 06...	1640	Environmental	175	10.3	103	6.7	191	13.8	89	90	110	<1
07066510 CURRENT RIVER ABOVE POWDER MILL												
OCT 07...	1600	Environmental	1,000	10.0	105	8.5	352	17.0	181	180	215	4
MAY 05...	1345	Environmental	2,500	10.3	114	7.8	274	18.3	134	134	164	<1
07066550 BLUE SPRING NEAR EMINENCE												
OCT 07...	1440	Environmental	96	8.8	86	7.8	326	13.9	157	157	191	<1
MAY 05...	1530	Environmental	181	10.4	102	7.4	207	13.0	87	87	106	<1
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND												
OCT 07...	1130	Environmental	1,220	9.0	92	8.2	353	16.3	178	177	216	<1
MAY 06...	0920	Environmental	2,450	8.7	93	7.3	282	17.7	143	143	174	<1
06...	0921	Replicate	--	8.7	94	7.3	282	17.7	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7μ MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)
07064400 MONTAUK SPRINGS AT MONTAUK										
OCT 09...	<0.10	<0.04	0.81	E.005	<0.02	<0.04	<0.04	1k	1k	15k
MAY 07...	E.06	<0.04	0.57	<0.008	<0.02	<0.04	<0.04	4k	6k	7k
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK										
OCT 09...	E.09	<0.04	0.76	0.011	<0.02	<0.04	E.02	3k	21	20
MAY 07...	0.15	E.03	0.49	<0.008	<0.02	<0.04	<0.04	9k	29	41
07...	E.07	<0.04	<0.06	<0.008	<0.02	<0.04	<0.04	--	--	--
07064530 WELCH SPRING NEAR AKERS										
OCT 08...	<0.10	<0.04	0.69	<0.008	<0.02	<0.04	<0.04	2k	3k	8k
MAY 07...	<0.10	<0.04	0.58	<0.008	<0.02	E.02	<0.04	25	64	80
07064555 PULLTITE SPRING NEAR ROUND SPRING										
OCT 08...	E.06	<0.04	0.55	0.009	<0.02	E.02	<0.04	<1b	4k	8k
MAY 06...	E.06	<0.04	0.47	<0.008	<0.02	<0.04	<0.04	21k	25	54
07065000 ROUND SPRING AT ROUND SPRING										
OCT 08...	<0.10	<0.04	0.28	0.010	<0.02	<0.04	<0.04	<1b	<1b	9k
MAY 05...	E.08	<0.04	0.37	<0.008	<0.02	<0.04	<0.04	100	110	200
07065500 ALLEY SPRING AT ALLEY										
OCT 08...	<0.10	<0.04	0.67	E.006	<0.02	E.02	E.02	1k	2k	1k
08...	<0.10	<0.04	0.69	<0.008	<0.02	<0.04	E.02	--	--	--
MAY 06...	E.10	<0.04	0.60	<0.008	<0.02	E.03	<0.04	30	49	104
07066510 CURRENT RIVER ABOVE POWDER MILL										
OCT 07...	E.07	<0.04	0.30	<0.008	<0.02	<0.04	E.02	<1b	9k	2k
MAY 05...	E.10	<0.04	0.33	<0.008	<0.02	E.02	<0.04	6k	15k	19k
07066550 BLUE SPRING NEAR EMINENCE										
OCT 07...	<0.10	<0.04	0.42	<0.008	E.01	<0.04	E.02	1k	5k	2k
MAY 05...	<0.10	<0.04	0.37	<0.008	<0.02	<0.04	<0.04	3k	7k	12k
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND										
OCT 07...	E.07	<0.04	0.29	<0.008	<0.02	<0.04	<0.04	<1b	23	6k
MAY 06...	0.14	<0.04	0.30	<0.008	<0.02	<0.04	<0.04	59	100	87
06...	E.08	<0.04	0.30	<0.008	<0.02	<0.04	<0.04	51	79k	93

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Cadmium water, unfltrd recover- able, µg/L (01027)	Lead, water, unfltrd recover- able, µg/L (01051)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, unfltrd recover- able, µg/L (01092)
07064400 MONTAUK SPRINGS AT MONTAUK				
OCT 09...	<0.2	<1	<0.3	E10n
MAY 07...	<0.2	<1	<0.3	E20
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK				
OCT 09...	<0.2	<1	<0.3	<20
MAY 07...	<0.2	<1	<0.3	30
07...	<0.2	<1	<0.3	<20
07064530 WELCH SPRING NEAR AKERS				
OCT 08...	<0.2	<1	<0.3	<20
MAY 07...	<0.2	M	<0.3	30
07064555 PULLTITE SPRING NEAR ROUND SPRING				
OCT 08...	<0.2	<1	<0.3	<20
MAY 06...	<0.2	M	<0.3	<20
07065000 ROUND SPRING AT ROUND SPRING				
OCT 08...	<0.2	<1	<0.3	<20
MAY 05...	<0.2	<1	<0.3	<20
07065500 ALLEY SPRING AT ALLEY				
OCT 08...	<0.2	<1	<0.3	<20
08...	<0.2	<1	<0.3	<20
MAY 06...	<0.2	<1	<0.3	<20
07066510 CURRENT RIVER ABOVE POWDER MILL				
OCT 07...	<0.2	<1	<0.3	<20
MAY 05...	<0.2	<1	<0.3	<20
07066550 BLUE SPRING NEAR EMINENCE				
OCT 07...	<0.2	<1	<0.3	<20
MAY 05...	<0.2	<1	<0.3	E20
07067800 CURRENT RIVER BELOW HAWES CAMPGROUND				
OCT 07...	E.1	<1	<0.3	<20
MAY 06...	<0.2	<1	<0.3	<20
06...	<0.2	<1	<0.3	<20

Remark codes used in this table:

< -- Less than

E -- Estimated value

M -- Presence verified, not quantified

Value qualifier codes used in this table:

b -- Value was extrapolated below

k -- Counts outside acceptable range

n -- Below the LRL and above the LT-MDL

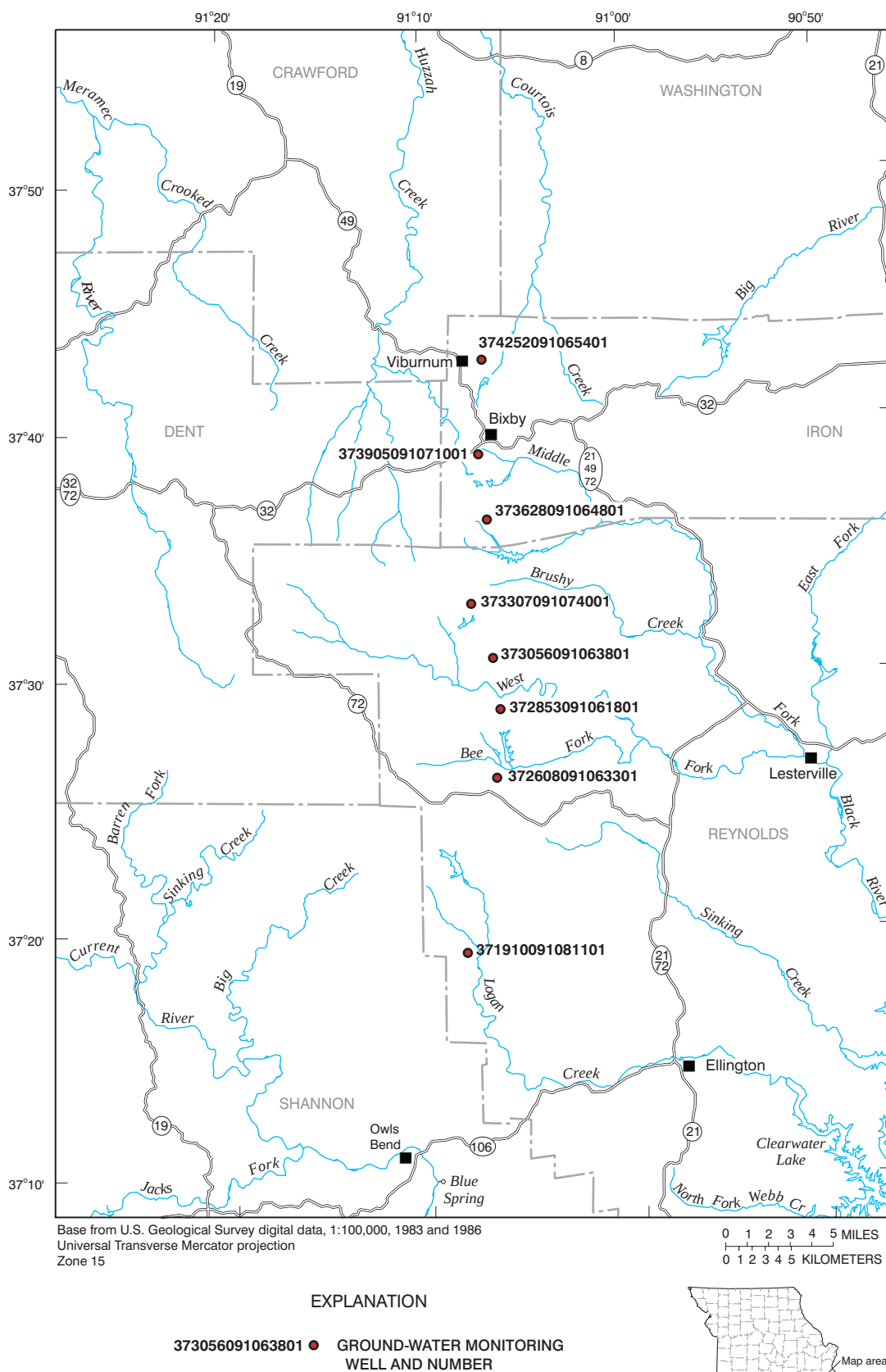


Figure 16. Location of ground-water monitoring wells.

GROUND-WATER LEVELS

IRON COUNTY

WELL IDENTIFICATION.--374252091065401; T35N R02W 26DBB; Viburnum Trend Well 1.

LOCATION.--Lat 37°42'52", long 91°06'54", NW ¼ NW ¼ SE ¼ sec.26, T.35 N., R.02 W., approximately 1 mile east of State Route Y in Viburnum.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Eminence Dolomite/Potosi Dolomite of Cambrian Age.

CONSTRUCTION DATA.--Drilled December 10, 2001, total depth of well, 110 feet, 80 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 22, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,140 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.4 feet above land surface.

REMARKS.--None.

PERIOD OF RECORD.--February 23, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 66.94 ft, Sept. 19; minimum 52.77 ft, May 19.

EXTREMES FOR CURRENT YEAR.--Maximum depth 72.10 ft, Dec. 14; minimum 56.26 ft, May 10.

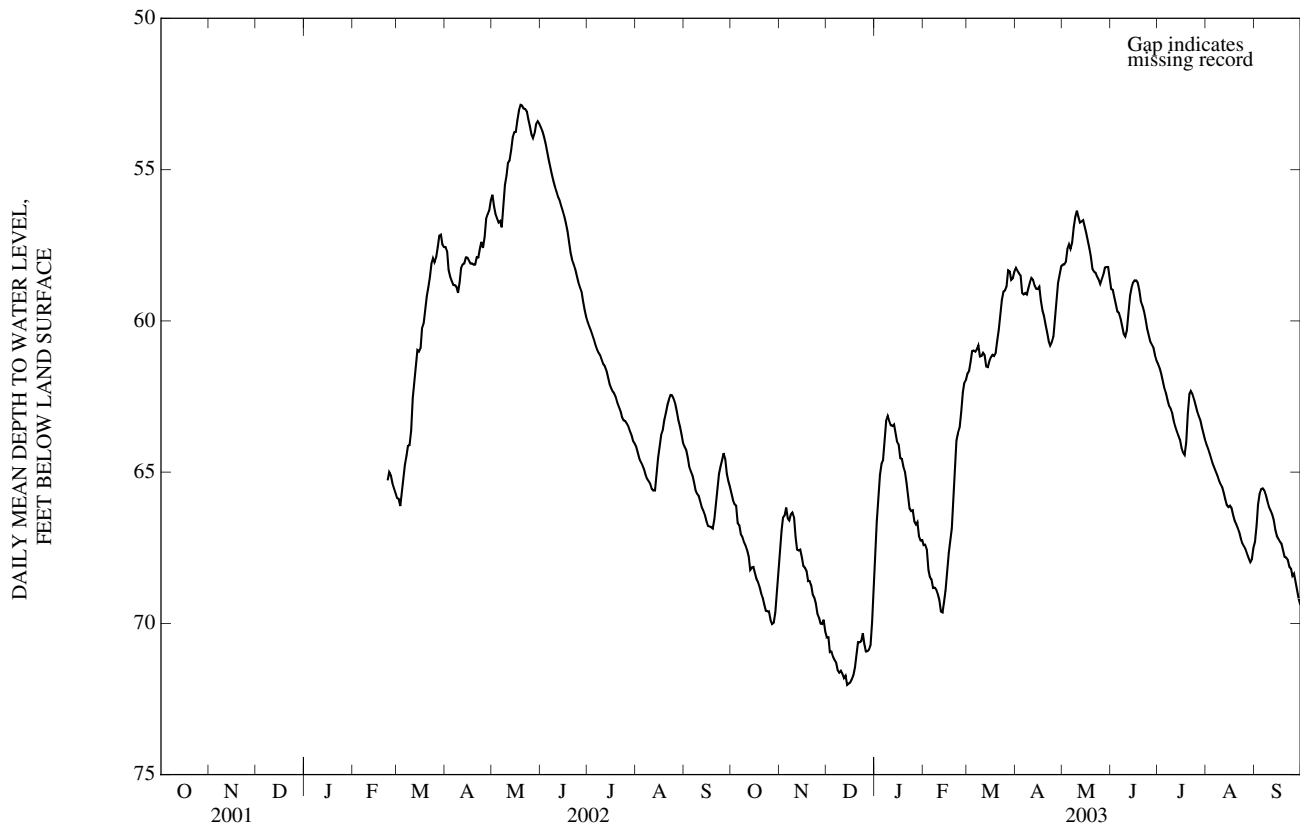
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	65.85	57.56	55.83	53.60	60.04	64.15	64.16
2	---	---	---	---	---	65.88	57.71	56.21	53.72	60.18	64.34	64.26
3	---	---	---	---	---	66.12	58.32	56.46	53.91	60.31	64.54	64.52
4	---	---	---	---	---	65.64	58.53	56.61	54.13	60.47	64.67	64.82
5	---	---	---	---	---	65.17	58.68	56.75	54.41	60.62	64.76	64.96
6	---	---	---	---	---	64.75	58.81	56.70	54.65	60.79	64.89	65.10
7	---	---	---	---	---	64.46	58.82	56.90	54.89	60.94	65.08	65.34
8	---	---	---	---	---	64.14	58.87	56.15	55.15	61.06	65.22	65.58
9	---	---	---	---	---	64.10	59.07	55.52	55.37	61.14	65.29	65.71
10	---	---	---	---	---	63.62	58.73	55.19	55.55	61.28	65.38	65.78
11	---	---	---	---	---	62.55	58.26	54.78	55.72	61.43	65.55	65.98
12	---	---	---	---	---	61.99	58.13	54.69	55.89	61.50	65.61	66.16
13	---	---	---	---	---	61.45	58.10	54.36	56.01	61.64	65.61	66.27
14	---	---	---	---	---	60.97	57.90	53.93	56.20	61.87	65.10	66.41
15	---	---	---	---	---	61.01	57.91	53.76	56.35	62.08	64.54	66.62
16	---	---	---	---	---	60.90	58.00	53.75	56.53	62.22	64.15	66.78
17	---	---	---	---	---	60.25	58.10	53.37	56.77	62.33	63.77	66.80
18	---	---	---	---	---	60.09	58.10	53.05	57.03	62.41	63.63	66.82
19	---	---	---	---	---	59.63	58.14	52.86	57.37	62.52	63.28	66.86
20	---	---	---	---	---	59.17	58.14	52.88	57.73	62.70	63.04	66.56
21	---	---	---	---	---	58.91	57.89	52.98	57.98	62.85	62.78	66.02
22	---	---	---	---	---	58.56	57.90	53.00	58.13	62.98	62.60	65.51
23	---	---	---	---	65.27	58.10	57.60	53.08	58.28	63.18	62.45	65.06
24	---	---	---	---	65.00	57.93	57.39	53.32	58.49	63.29	62.46	64.80
25	---	---	---	---	65.10	58.06	57.59	53.56	58.72	63.31	62.58	64.58
26	---	---	---	---	65.36	57.91	57.23	53.83	58.88	63.40	62.73	64.38
27	---	---	---	---	65.54	57.57	56.62	53.96	59.03	63.49	62.98	64.56
28	---	---	---	---	65.68	57.18	56.47	53.79	59.34	63.63	63.28	65.06
29	---	---	---	---	---	57.15	56.35	53.49	59.63	63.76	63.49	65.31
30	---	---	---	---	---	57.47	56.02	53.40	59.87	63.97	63.76	65.48
31	---	---	---	---	---	57.56	---	53.48	---	64.05	64.02	---
MEAN	---	---	---	---	---	61.10	57.90	54.44	56.64	62.11	64.06	65.54
MAX	---	---	---	---	---	66.12	59.07	56.90	59.87	64.05	65.61	66.86
MIN	---	---	---	---	---	57.15	56.02	52.86	53.60	60.04	62.45	64.16

IRON COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65.71	67.55	70.46	67.53	67.41	61.74	58.25	58.14	58.94	61.42	64.08	67.30
2	65.93	66.94	70.45	66.64	67.40	61.66	58.34	58.13	58.98	61.55	64.22	66.76
3	66.07	66.50	70.95	65.93	67.55	61.37	58.43	58.04	59.21	61.75	64.39	66.07
4	66.10	66.44	70.93	65.09	68.23	61.00	58.50	57.61	59.48	62.00	64.54	65.71
5	66.69	66.17	71.10	64.72	68.46	60.98	59.08	57.46	59.69	62.21	64.72	65.56
6	66.75	66.53	71.21	64.61	68.55	61.02	59.13	57.61	59.74	62.37	64.85	65.54
7	67.06	66.59	71.29	63.97	68.83	60.95	59.08	57.41	59.92	62.61	64.99	65.60
8	67.13	66.40	71.55	63.30	68.81	60.82	59.13	56.91	60.17	62.81	65.12	65.75
9	67.30	66.34	71.63	63.14	68.88	61.18	58.91	56.56	60.44	62.89	65.27	65.97
10	67.42	66.49	71.56	63.32	69.02	61.16	58.71	56.35	60.52	63.03	65.40	66.15
11	67.58	67.16	71.66	63.45	69.23	61.06	58.58	56.56	60.31	63.31	65.49	66.27
12	67.79	67.56	71.80	63.48	69.60	61.13	58.65	56.75	59.69	63.49	65.69	66.38
13	68.23	67.59	71.73	63.42	69.63	61.51	58.83	56.71	59.18	63.65	65.89	66.58
14	68.15	67.56	72.03	63.72	69.32	61.53	58.94	56.67	58.92	63.78	66.09	66.90
15	68.13	67.81	71.98	64.00	68.90	61.33	58.95	56.87	58.74	63.92	66.16	67.11
16	68.35	68.10	71.96	64.09	68.31	61.20	58.87	57.09	58.66	64.20	66.11	67.20
17	68.53	68.16	71.85	64.54	67.68	61.12	59.34	57.35	58.66	64.36	66.18	67.30
18	68.63	68.26	71.71	64.56	67.28	61.16	59.67	57.60	58.74	64.43	66.41	67.37
19	68.80	68.60	71.44	64.81	66.86	61.07	59.84	57.87	58.99	64.03	66.60	67.60
20	69.01	68.59	71.04	64.98	65.93	60.69	60.12	58.28	59.36	63.07	66.72	67.80
21	69.14	68.73	70.61	65.35	64.77	60.32	60.38	58.37	59.50	62.42	66.84	67.82
22	69.38	69.05	70.63	65.79	63.96	59.79	60.68	58.41	59.70	62.32	66.99	67.90
23	69.58	69.15	70.59	66.20	63.70	59.31	60.82	58.53	59.95	62.42	67.20	68.13
24	69.61	69.33	70.33	66.29	63.53	59.02	60.71	58.63	60.26	62.59	67.37	68.19
25	69.60	69.67	70.66	66.26	63.01	59.00	60.53	58.78	60.48	62.79	67.46	68.43
26	69.88	69.81	70.93	66.63	62.36	58.87	59.95	58.62	60.69	62.99	67.55	68.36
27	70.02	70.01	70.92	66.73	62.05	58.33	59.26	58.46	60.78	63.13	67.70	68.66
28	69.98	70.02	70.86	66.65	61.96	58.37	58.75	58.24	60.88	63.27	67.84	68.94
29	69.64	69.88	70.73	67.11	---	58.65	58.47	58.22	61.13	63.51	67.97	69.18
30	68.89	70.27	69.94	67.25	---	58.59	58.20	58.22	61.32	63.73	67.89	69.38
31	68.17	---	68.81	67.25	---	58.37	---	58.58	---	63.91	67.50	---
MEAN	68.17	68.04	71.08	65.19	66.83	60.40	59.24	57.71	59.77	63.03	66.17	67.20
MAX	70.02	70.27	72.03	67.53	69.63	61.74	60.82	58.78	61.32	64.43	67.97	69.38
MIN	65.71	66.17	68.81	63.14	61.96	58.33	58.20	56.35	58.66	61.42	64.08	65.54



GROUND-WATER LEVELS

IRON COUNTY

WELL IDENTIFICATION.--373905091071001; T34N R02W 11DAA; Viburnum Trend Well 2.

LOCATION.--Lat 37°03'05", long 91°07'10", NE ¼ NE ¼ SE ¼ sec. 11, T.34 N., R.02 W., approximately 0.4 mile south of Highway 32 on road to Magmont Mine near Bixby.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Eminence Dolomite/Potosi Dolomite of Cambrian Age.

CONSTRUCTION DATA.--Drilled December 11, 2001, total depth of well, 310 feet, 120 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 13, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,420 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.1 feet above land surface.

REMARKS.--None.

PERIOD OF RECORD.--February 14, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 273.38 ft, Feb. 13; minimum 242.64 ft. June 27.

EXTREMES FOR CURRENT YEAR.--Maximum depth 258.87 ft, Feb. 25; minimum 248.32 ft, July 3.

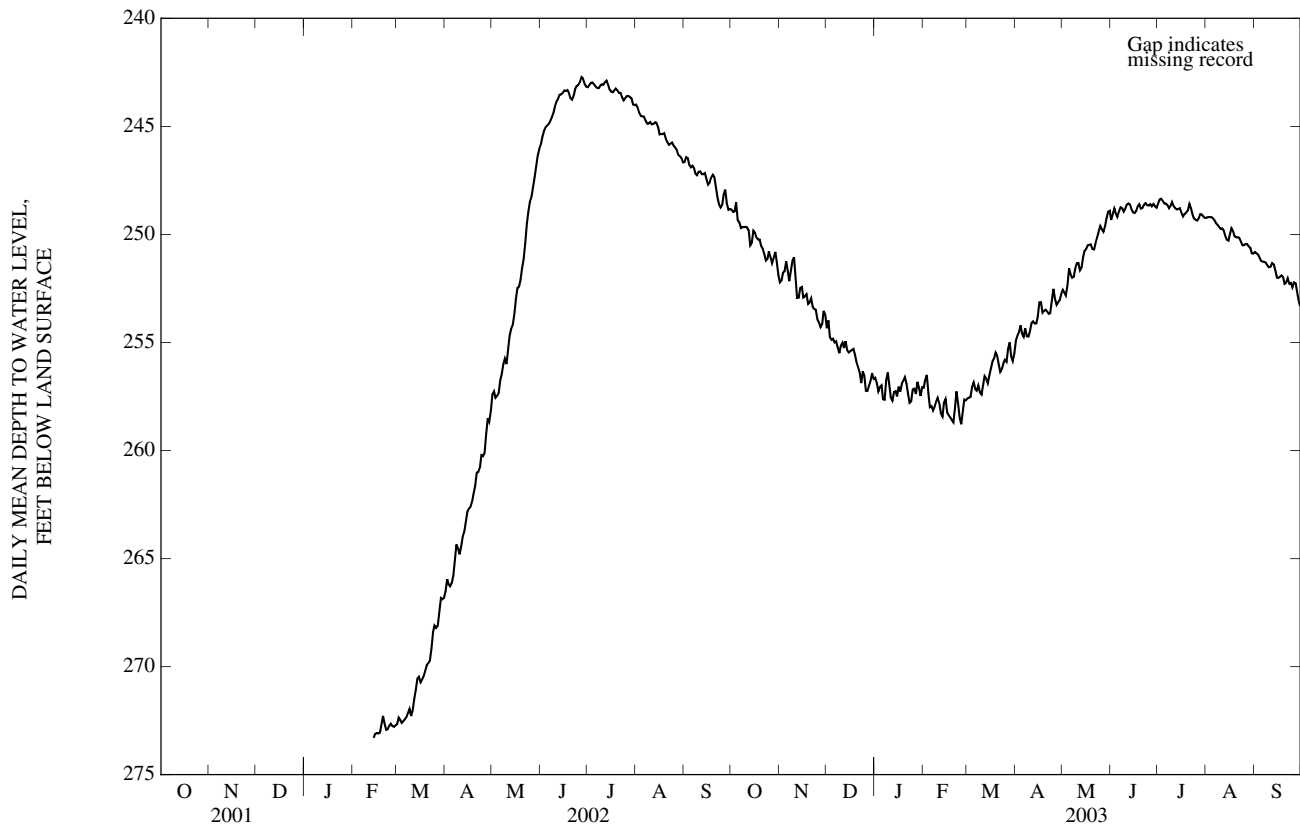
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	272.66	266.51	257.39	245.82	243.19	243.99	246.64
2	---	---	---	---	---	272.36	265.96	257.26	245.49	243.10	244.13	246.43
3	---	---	---	---	---	272.47	266.19	257.56	245.22	242.98	244.38	246.47
4	---	---	---	---	---	272.60	266.28	257.47	245.05	242.97	244.52	246.78
5	---	---	---	---	---	272.53	266.13	257.34	244.96	243.05	244.54	246.89
6	---	---	---	---	---	272.43	265.76	256.74	244.89	243.14	244.55	246.82
7	---	---	---	---	---	272.34	265.11	256.46	244.77	243.22	244.72	246.93
8	---	---	---	---	---	272.15	264.34	256.00	244.59	243.22	244.87	247.20
9	---	---	---	---	---	271.96	264.52	255.74	244.38	243.11	244.87	247.26
10	---	---	---	---	---	272.28	264.81	256.00	244.10	243.05	244.80	247.10
11	---	---	---	---	---	272.00	264.46	255.43	243.87	243.07	244.91	247.08
12	---	---	---	---	---	271.51	264.00	254.70	243.73	242.95	244.88	247.21
13	---	---	---	---	---	271.07	263.77	254.37	243.53	242.88	244.81	247.21
14	---	---	---	---	273.30	270.55	263.27	254.19	243.51	243.06	244.82	247.16
15	---	---	---	---	273.12	270.46	262.81	253.69	243.45	243.28	245.02	247.44
16	---	---	---	---	273.07	270.73	262.68	253.04	243.34	243.39	245.37	247.70
17	---	---	---	---	273.09	270.61	262.61	252.48	243.36	243.42	245.35	247.61
18	---	---	---	---	273.06	270.46	262.37	252.42	243.33	243.34	245.35	247.37
19	---	---	---	---	272.69	270.21	261.96	252.09	243.45	243.24	245.31	247.24
20	---	---	---	---	272.28	269.92	261.64	251.57	243.70	243.33	245.56	247.35
21	---	---	---	---	272.64	269.85	261.03	251.14	243.77	243.45	245.74	247.80
22	---	---	---	---	272.92	269.72	261.00	250.41	243.57	243.45	245.85	248.26
23	---	---	---	---	272.90	269.17	260.78	249.52	243.27	243.64	245.79	248.60
24	---	---	---	---	272.74	268.38	260.21	248.97	243.13	243.80	245.74	248.75
25	---	---	---	---	272.64	268.10	260.26	248.50	243.08	243.70	245.89	248.63
26	---	---	---	---	272.76	268.21	260.12	248.27	242.94	243.60	245.97	248.17
27	---	---	---	---	272.79	268.12	259.22	247.80	242.72	243.59	246.09	247.93
28	---	---	---	---	272.72	267.51	258.51	247.34	242.78	243.64	246.32	248.56
29	---	---	---	---	---	266.83	258.66	246.85	243.02	243.69	246.38	248.86
30	---	---	---	---	---	266.88	258.17	246.35	243.16	243.98	246.47	248.82
31	---	---	---	---	---	266.82	---	246.04	---	244.02	246.66	---
MEAN	---	---	---	---	---	270.35	262.77	252.68	243.87	243.34	245.28	247.54
MAX	---	---	---	---	---	272.66	266.51	257.56	245.82	244.02	246.66	248.86
MIN	---	---	---	---	---	266.82	258.17	246.04	242.72	242.88	243.99	246.43

IRON COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248.85	252.22	254.34	256.63	257.10	257.59	254.90	252.56	249.33	248.59	249.23	250.81
2	248.95	252.13	253.97	256.86	256.73	257.56	254.70	252.68	249.06	248.38	249.19	250.88
3	248.93	251.77	254.75	257.27	256.50	257.52	254.52	252.82	248.79	248.35	249.20	250.92
4	248.52	251.70	254.87	257.07	257.37	257.06	254.21	252.35	249.04	248.45	249.20	251.07
5	249.34	251.26	254.82	256.98	257.99	256.85	254.61	251.57	249.19	248.56	249.24	251.23
6	249.43	251.70	255.00	257.63	257.94	257.15	254.74	251.83	248.94	248.56	249.33	251.26
7	249.70	252.16	254.94	257.65	258.15	257.23	254.35	252.00	248.74	248.64	249.47	251.26
8	249.65	251.68	255.21	256.74	257.97	256.99	254.71	251.96	248.79	248.78	249.55	251.31
9	249.67	251.23	255.49	256.39	257.73	257.31	254.73	251.57	248.94	248.66	249.64	251.43
10	249.65	251.05	255.14	257.02	257.56	257.41	254.46	251.33	248.82	248.50	249.74	251.52
11	249.67	252.06	255.01	257.54	257.81	256.94	254.11	251.32	248.62	248.69	249.72	251.49
12	249.82	252.93	255.25	257.69	258.28	256.55	254.02	251.66	248.57	248.78	249.82	251.33
13	250.50	252.92	254.94	257.29	258.42	256.67	254.12	251.53	248.61	248.85	250.05	251.38
14	250.38	252.47	255.34	257.26	257.79	256.88	254.12	251.03	248.82	248.82	250.24	251.66
15	249.82	252.43	255.47	257.50	257.62	256.51	253.82	250.75	248.98	248.79	250.28	251.99
16	249.92	252.92	255.41	257.04	258.23	256.21	253.15	250.67	249.01	249.00	249.96	252.01
17	250.13	252.87	255.35	257.27	258.37	255.89	253.13	250.51	248.92	249.17	249.71	251.96
18	250.23	252.77	255.29	256.90	258.46	255.74	253.62	250.49	248.70	249.04	249.85	251.90
19	250.23	253.22	255.57	256.77	258.59	255.47	253.53	250.46	248.60	248.99	250.09	251.99
20	250.54	253.15	255.90	256.61	258.69	255.60	253.48	250.68	248.80	248.90	250.14	252.29
21	250.65	252.96	256.12	256.91	258.02	256.00	253.56	250.70	248.77	248.58	250.13	252.23
22	250.89	253.36	256.37	257.40	257.26	256.36	253.68	250.39	248.63	248.76	250.16	252.02
23	251.21	253.44	256.88	257.79	257.80	256.23	253.65	250.16	248.55	249.06	250.32	252.28
24	251.14	253.49	256.33	257.72	258.45	255.96	253.06	249.87	248.64	249.26	250.50	252.25
25	250.78	253.93	256.52	257.18	258.78	255.80	252.52	249.61	248.67	249.32	250.50	252.45
26	251.04	254.07	257.23	257.14	258.15	255.90	252.97	249.76	248.60	249.36	250.44	252.22
27	251.34	254.29	257.24	257.38	257.64	255.29	253.25	249.88	248.70	249.26	250.45	252.26
28	251.10	254.15	257.00	256.82	257.68	254.99	253.15	249.65	248.59	249.06	250.56	252.70
29	250.81	253.54	256.79	257.10	---	255.63	253.05	249.26	248.70	249.08	250.62	253.08
30	251.26	253.71	256.42	257.47	---	255.85	252.76	248.95	248.76	249.18	250.86	253.32
31	251.87	---	256.68	257.08	---	255.49	---	248.90	---	249.23	250.88	---
MEAN	250.19	252.72	255.67	257.16	257.90	256.41	253.82	250.87	248.80	248.86	249.97	251.82
MAX	251.87	254.29	257.24	257.79	258.78	257.59	254.90	252.82	249.33	249.36	250.88	253.32
MIN	248.52	251.05	253.97	256.39	256.50	254.99	252.52	248.90	248.55	248.35	249.19	250.81



GROUND-WATER LEVELS

IRON COUNTY

WELL IDENTIFICATION.--373628091064801; T34N R02W 25CAC; Viburnum Trend Well 3.

LOCATION.--Lat 37°36'28", long 91°06'48", SW 1/4 NE 1/4 SW 1/4 sec.25, T.34 N., R.02 W., approximately 0.4 mile east of Buick Mine and 0.9 mile off Forest Service Road 2231 near Bixby.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Gasconade Dolomite of Ordovician age and Eminence Dolomite/Potosi Dolomite of Cambrian Age.

CONSTRUCTION DATA.--Drilled December 10, 2001, total depth of well, 190 feet, 80 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 13, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,360 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.0 feet above land surface.

REMARKS.--None.

PERIOD OF RECORD.--February 14, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 119.50 ft, March 10; minimum 112.12 ft, June 27.

EXTREMES FOR CURRENT YEAR.--Maximum depth 119.15 ft, Feb. 24; minimum 114.57 ft, June 11.

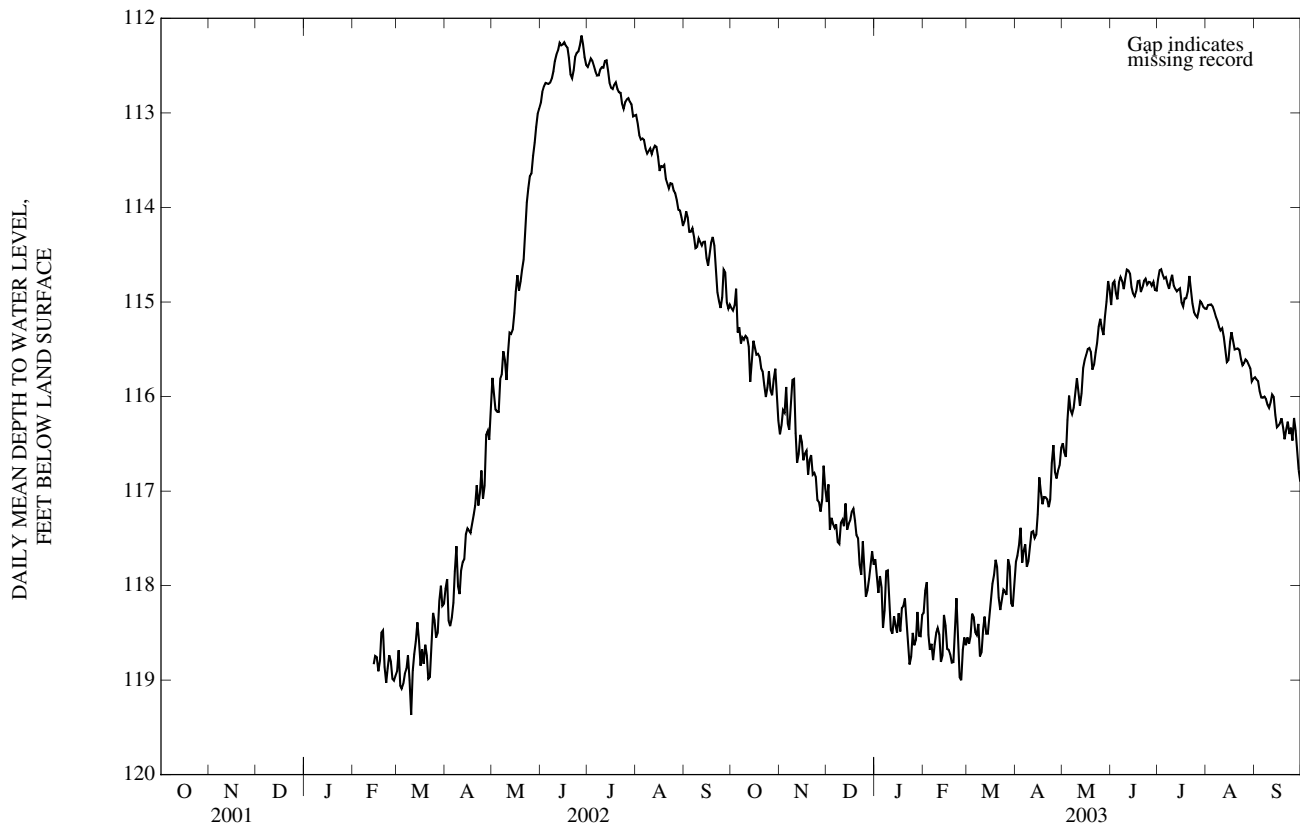
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	118.91	118.03	115.80	112.89	112.51	113.02	114.15
2	---	---	---	---	---	118.68	117.93	115.98	112.78	112.48	113.11	114.04
3	---	---	---	---	---	119.06	118.37	116.14	112.72	112.42	113.23	114.11
4	---	---	---	---	---	119.09	118.43	116.16	112.68	112.45	113.28	114.26
5	---	---	---	---	---	119.04	118.34	116.16	112.69	112.51	113.27	114.26
6	---	---	---	---	---	118.93	118.18	115.81	112.69	112.56	113.29	114.22
7	---	---	---	---	---	118.88	117.85	115.77	112.68	112.60	113.38	114.31
8	---	---	---	---	---	118.74	117.58	115.52	112.64	112.60	113.43	114.43
9	---	---	---	---	---	119.00	118.01	115.61	112.56	112.54	113.40	114.42
10	---	---	---	---	---	119.37	118.09	115.83	112.45	112.52	113.38	114.33
11	---	---	---	---	---	118.90	117.84	115.55	112.38	112.52	113.44	114.37
12	---	---	---	---	---	118.73	117.75	115.32	112.34	112.45	113.38	114.40
13	---	---	---	---	---	118.59	117.72	115.34	112.26	112.44	113.35	114.36
14	---	---	---	---	118.83	118.39	117.46	115.29	112.28	112.56	113.36	114.36
15	---	---	---	---	118.74	118.58	117.40	115.12	112.28	112.68	113.46	114.53
16	---	---	---	---	118.75	118.85	117.42	114.89	112.25	112.73	113.61	114.61
17	---	---	---	---	118.91	118.67	117.44	114.72	112.29	112.75	113.56	114.50
18	---	---	---	---	118.80	118.83	117.35	114.88	112.31	112.70	113.57	114.37
19	---	---	---	---	118.50	118.62	117.25	114.78	112.42	112.68	113.55	114.31
20	---	---	---	---	118.47	118.74	117.16	114.66	112.59	112.75	113.70	114.40
21	---	---	---	---	118.86	118.99	116.94	114.55	112.63	112.78	113.75	114.67
22	---	---	---	---	119.03	118.97	117.15	114.27	112.55	112.79	113.80	114.90
23	---	---	---	---	118.88	118.58	117.02	113.95	112.41	112.90	113.74	114.99
24	---	---	---	---	118.74	118.29	116.78	113.80	112.37	112.96	113.75	115.06
25	---	---	---	---	118.80	118.37	117.08	113.67	112.35	112.89	113.82	114.95
26	---	---	---	---	118.99	118.55	116.94	113.64	112.28	112.86	113.85	114.66
27	---	---	---	---	119.01	118.50	116.41	113.46	112.18	112.84	113.92	114.69
28	---	---	---	---	118.96	118.16	116.36	113.32	112.27	112.88	114.02	115.00
29	---	---	---	---	---	118.00	116.46	113.15	112.41	112.91	114.03	115.07
30	---	---	---	---	---	118.22	116.15	113.01	112.49	113.04	114.11	115.03
31	---	---	---	---	---	118.19	---	112.95	---	113.03	114.20	---
MEAN	---	---	---	---	---	118.69	117.43	114.81	112.47	112.69	113.57	114.53
MAX	---	---	---	---	---	119.37	118.43	116.16	112.89	113.04	114.20	115.07
MIN	---	---	---	---	---	118.00	116.15	112.95	112.18	112.42	113.02	114.04

IRON COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115.06	116.40	117.12	117.72	118.29	118.55	117.75	116.50	115.03	114.76	115.07	115.80
2	115.09	116.30	116.93	117.89	118.05	118.62	117.68	116.59	114.80	114.66	115.03	115.82
3	115.03	116.14	117.41	118.08	117.96	118.54	117.57	116.64	114.78	114.65	115.03	115.84
4	114.86	116.17	117.28	117.90	118.52	118.30	117.39	116.25	114.91	114.71	115.03	115.94
5	115.32	115.90	117.35	118.02	118.68	118.33	117.76	115.99	114.97	114.75	115.05	116.01
6	115.27	116.29	117.39	118.45	118.62	118.50	117.63	116.14	114.79	114.74	115.10	116.01
7	115.44	116.35	117.35	118.27	118.79	118.52	117.56	116.19	114.74	114.81	115.16	116.00
8	115.38	116.06	117.54	117.85	118.62	118.41	117.80	116.12	114.78	114.86	115.20	116.02
9	115.40	115.82	117.56	117.84	118.50	118.75	117.74	115.97	114.86	114.77	115.26	116.08
10	115.36	115.81	117.34	118.21	118.45	118.71	117.59	115.81	114.75	114.71	115.30	116.12
11	115.38	116.39	117.31	118.47	118.52	118.46	117.43	115.94	114.66	114.82	115.28	116.06
12	115.47	116.70	117.37	118.51	118.81	118.33	117.42	116.10	114.67	114.86	115.37	115.98
13	115.84	116.61	117.13	118.32	118.74	118.51	117.50	115.97	114.70	114.89	115.50	116.00
14	115.62	116.40	117.41	118.43	118.31	118.51	117.46	115.70	114.84	114.87	115.64	116.20
15	115.41	116.48	117.35	118.50	118.42	118.32	117.25	115.62	114.91	114.86	115.62	116.33
16	115.48	116.67	117.31	118.29	118.67	118.17	116.86	115.56	114.94	115.00	115.42	116.31
17	115.56	116.60	117.22	118.48	118.68	117.98	117.01	115.50	114.89	115.05	115.32	116.28
18	115.55	116.57	117.19	118.24	118.72	117.89	117.14	115.49	114.78	114.96	115.42	116.23
19	115.58	116.82	117.31	118.22	118.82	117.73	117.06	115.52	114.78	114.96	115.50	116.33
20	115.70	116.67	117.47	118.14	118.81	117.80	117.06	115.72	114.90	114.89	115.50	116.45
21	115.73	116.62	117.50	118.34	118.40	118.13	117.08	115.67	114.85	114.72	115.49	116.35
22	115.88	116.83	117.78	118.59	118.13	118.26	117.17	115.53	114.78	114.86	115.50	116.27
23	116.00	116.81	117.89	118.83	118.51	118.15	117.09	115.44	114.75	115.02	115.60	116.40
24	115.90	116.85	117.53	118.75	118.97	118.04	116.70	115.26	114.81	115.11	115.67	116.33
25	115.73	117.10	117.83	118.50	119.00	118.06	116.51	115.18	114.79	115.14	115.65	116.47
26	115.93	117.12	118.12	118.63	118.68	118.10	116.80	115.28	114.79	115.16	115.61	116.23
27	115.99	117.22	118.05	118.58	118.55	117.72	116.87	115.35	114.83	115.09	115.63	116.36
28	115.82	117.09	117.93	118.28	118.63	117.80	116.79	115.16	114.79	114.99	115.66	116.58
29	115.71	116.73	117.79	118.53	---	118.18	116.73	115.00	114.87	115.01	115.70	116.78
30	116.00	116.97	117.64	118.54	---	118.22	116.54	114.78	114.88	115.05	115.84	116.90
31	116.26	---	117.78	118.31	---	117.99	---	114.88	---	115.07	115.81	---
MEAN	115.57	116.55	117.49	118.31	118.57	118.24	117.23	115.70	114.82	114.90	115.42	116.22
MAX	116.26	117.22	118.12	118.83	119.00	118.75	117.80	116.64	115.03	115.16	115.84	116.90
MIN	114.86	115.81	116.93	117.72	117.96	117.72	116.51	114.78	114.66	114.65	115.03	115.80



GROUND-WATER LEVELS

REYNOLDS COUNTY

WELL IDENTIFICATION.--373307091074001; T33N R02W 14ACC; Viburnum Trend Well 4.

LOCATION.--Lat 37°33'07", long 91°07'40", SW ¼ SW ¼ NE ¼ sec.14, T.33 N., R.02 W., approximately 1.0 mile north of Brushy Creek Mine, 1.5 mile west of Highway KK on Forest Service Road.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Gasconade Dolomite of Ordovician age and Eminence Dolomite/Potosi Dolomite of Cambrian Age.

CONSTRUCTION DATA.--Drilled December 4, 2001, total depth of well, 390 feet, 190 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 13, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,410 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.2 feet above land surface.

REMARKS.--Several days of missing record caused by water level dropping below pressure transducer.

PERIOD OF RECORD.--February 14, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 361.64 ft, March 10; minimum 352.18 ft, Sept. 27.

EXTREMES FOR CURRENT YEAR.--Maximum depth 381.29 ft, Sept. 30; minimum 351.11 ft, Dec. 18.

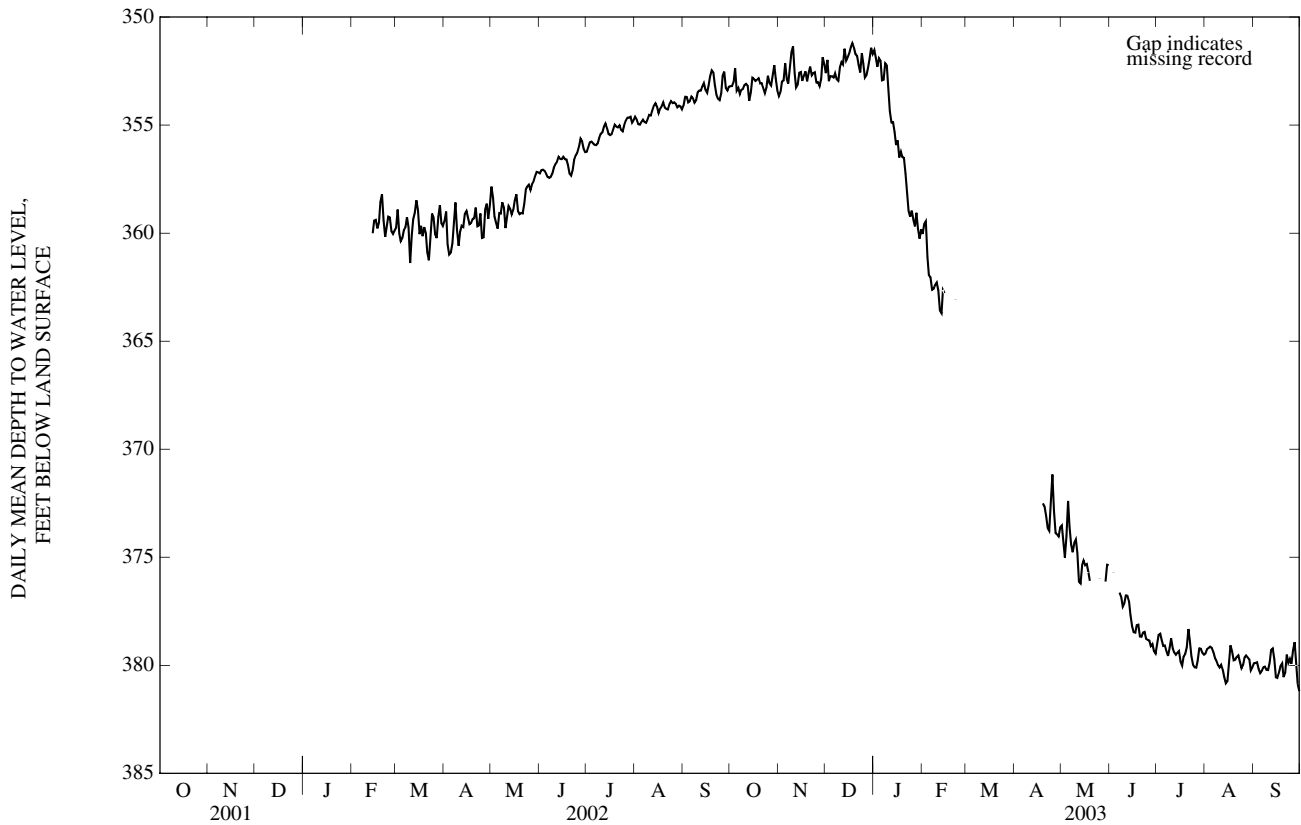
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	359.8	359.4	357.9	357.2	356.2	354.6	354.1
2	---	---	---	---	---	358.9	359.0	358.4	357.1	356.0	354.7	353.7
3	---	---	---	---	---	360.0	360.5	359.2	357.1	355.8	355.0	353.7
4	---	---	---	---	---	360.4	361.0	359.5	357.1	355.8	355.0	354.0
5	---	---	---	---	---	360.2	360.9	359.8	357.2	355.8	354.9	353.9
6	---	---	---	---	---	359.9	360.5	359.1	357.4	355.9	354.7	353.7
7	---	---	---	---	---	359.7	359.5	359.1	357.4	355.9	354.9	353.8
8	---	---	---	---	---	359.3	358.6	358.6	357.4	355.9	354.9	354.0
9	---	---	---	---	---	359.7	359.9	358.8	357.2	355.6	354.7	353.8
10	---	---	---	---	---	361.4	360.6	359.8	357.0	355.4	354.5	353.5
11	---	---	---	---	---	360.1	359.9	359.3	356.8	355.3	354.6	353.4
12	---	---	---	---	---	359.4	359.7	358.7	356.7	355.1	354.3	353.4
13	---	---	---	---	---	359.1	359.7	358.9	356.5	354.9	354.1	353.2
14	---	---	---	---	360.0	358.5	359.1	359.1	356.6	355.2	354.0	353.1
15	---	---	---	---	359.4	358.9	359.0	358.9	356.6	355.4	354.1	353.4
16	---	---	---	---	359.4	360.0	359.3	358.5	356.5	355.5	354.5	353.5
17	---	---	---	---	359.8	359.7	359.6	358.2	356.6	355.4	354.2	353.2
18	---	---	---	---	359.5	360.1	359.5	359.0	356.6	355.2	354.1	352.7
19	---	---	---	---	358.6	359.7	359.3	359.1	356.8	355.0	353.9	352.5
20	---	---	---	---	358.2	360.0	359.3	359.1	357.2	355.1	354.2	352.6
21	---	---	---	---	359.4	360.9	358.8	359.1	357.3	355.1	354.3	353.1
22	---	---	---	---	360.2	361.3	359.7	358.7	357.1	355.0	354.3	353.6
23	---	---	---	---	359.7	360.1	359.6	358.0	356.6	355.2	354.0	353.8
24	---	---	---	---	359.2	359.1	359.1	357.9	356.4	355.3	353.9	353.8
25	---	---	---	---	359.3	359.3	360.2	357.8	356.3	355.0	354.0	353.5
26	---	---	---	---	359.9	360.0	360.2	358.0	356.0	354.8	353.9	352.7
27	---	---	---	---	360.0	360.2	358.9	357.7	355.6	354.7	354.0	352.5
28	---	---	---	---	359.9	359.2	358.6	357.6	355.7	354.7	354.2	353.3
29	---	---	---	---	---	358.7	359.3	357.4	356.1	354.6	354.1	353.4
30	---	---	---	---	---	359.5	358.7	357.2	356.2	354.9	354.1	353.2
31	---	---	---	---	---	359.7	---	357.2	---	354.8	354.3	---
MEAN	---	---	---	---	---	359.8	359.6	358.6	356.7	355.3	354.4	353.4
MAX	---	---	---	---	---	361.4	361.0	359.8	357.4	356.2	355.0	354.1
MIN	---	---	---	---	---	358.5	358.6	357.2	355.6	354.6	353.9	352.5

REYNOLDS COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353.2	353.7	352.6	351.5	360.0	---	---	373.5	---	379.0	379.5	379.9
2	353.2	353.5	352.0	351.9	359.6	---	---	374.3	---	378.6	379.3	379.9
3	353.0	353.0	353.0	352.3	359.5	---	---	375.0	375.7	378.5	379.2	379.9
4	352.4	352.9	352.7	351.9	361.1	---	---	374.0	---	378.9	379.1	380.2
5	353.4	352.1	352.7	352.0	361.9	---	---	372.4	---	379.1	379.2	380.4
6	353.3	352.9	352.8	352.9	362.0	---	---	373.6	---	379.1	379.4	380.3
7	353.6	353.1	352.6	352.9	362.6	---	---	374.4	376.6	379.3	379.7	380.1
8	353.4	352.3	352.9	352.1	362.6	---	---	374.8	376.8	379.6	379.8	380.1
9	353.3	351.6	353.0	352.2	362.4	---	---	374.3	377.3	379.2	380.0	380.2
10	353.1	351.4	352.3	353.4	362.3	---	---	374.2	377.2	378.8	380.1	380.2
11	353.1	352.6	352.1	354.4	362.6	---	---	374.8	376.8	379.2	380.0	379.9
12	353.2	353.3	352.2	354.9	363.6	---	---	376.1	376.8	379.4	380.2	379.3
13	353.9	353.1	351.5	354.9	363.7	---	---	376.2	377.0	379.5	380.5	379.2
14	353.5	352.6	352.0	355.3	362.6	---	---	375.4	377.7	379.4	380.8	379.7
15	352.8	352.5	351.9	355.9	362.8	---	---	375.1	378.2	379.3	380.7	380.6
16	352.9	353.0	351.7	355.7	---	---	---	375.4	378.5	379.8	379.9	380.6
17	353.0	352.7	351.4	356.5	---	---	---	375.3	378.5	380.0	379.1	380.3
18	352.9	352.5	351.2	356.2	---	---	---	375.7	378.2	379.6	379.4	380.0
19	352.8	353.0	351.4	356.5	---	---	372.5	376.1	378.1	379.5	379.8	379.9
20	353.1	352.6	351.7	356.5	---	---	372.6	---	378.7	379.2	379.7	380.5
21	353.1	352.3	351.8	357.2	---	---	373.1	---	378.7	378.3	379.6	380.4
22	353.3	352.7	352.2	358.2	363.1	---	373.7	---	378.5	378.9	379.5	379.5
23	353.5	352.6	352.6	359.0	---	---	373.8	---	378.5	379.6	379.8	379.9
24	353.3	352.6	351.7	359.2	---	---	372.4	---	378.8	380.0	380.1	379.7
25	352.7	353.0	352.2	359.0	---	---	371.2	376.0	378.8	380.1	380.0	379.9
26	353.1	353.0	352.8	359.4	---	---	372.9	---	378.9	380.1	379.6	379.3
27	353.2	353.2	352.7	359.7	---	---	373.9	---	379.1	379.8	379.5	378.9
28	352.7	352.8	352.3	359.1	---	---	373.9	---	379.0	379.2	379.6	380.0
29	352.2	351.9	352.0	359.8	---	---	374.0	376.1	379.3	379.2	379.7	380.9
30	352.9	352.2	351.4	360.3	---	---	373.6	375.3	379.5	379.4	380.2	381.2
31	353.4	---	351.7	359.8	---	---	---	375.4	---	379.5	380.1	---
MEAN	353.1	352.7	352.2	355.8	---	---	---	---	---	379.3	379.8	380.0
MAX	353.9	353.7	353.0	360.3	---	---	---	---	---	380.1	380.8	381.2
MIN	352.2	351.4	351.2	351.5	---	---	---	---	---	378.3	379.1	378.9



GROUND-WATER LEVELS

REYNOLDS COUNTY

WELL IDENTIFICATION.--373056091063801; T33N R02W 25CDD; Viburnum Trend Well 5.

LOCATION.--Lat 37°30'56", long 91°06'38", SE ¼ SE ¼ SW ¼ sec.25, T.33 N., R.02 W., approximately 1.1 mile south of Highway KK near Brushy Creek Mine.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Eminence Dolomite/Potosi Dolomite of Cambrian Age.

CONSTRUCTION DATA.--Drilled December 3, 2001, total depth of well, 170 feet, 126 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 22, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,160 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.1 feet above land surface.

REMARKS.--None.

PERIOD OF RECORD.--February 23, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 136.99 ft, Feb. 22; minimum 125.88 ft, June 2 and 4.

EXTREMES FOR CURRENT YEAR.--Maximum depth 131.71 ft, Dec. 23; minimum 127.03 ft, May 30.

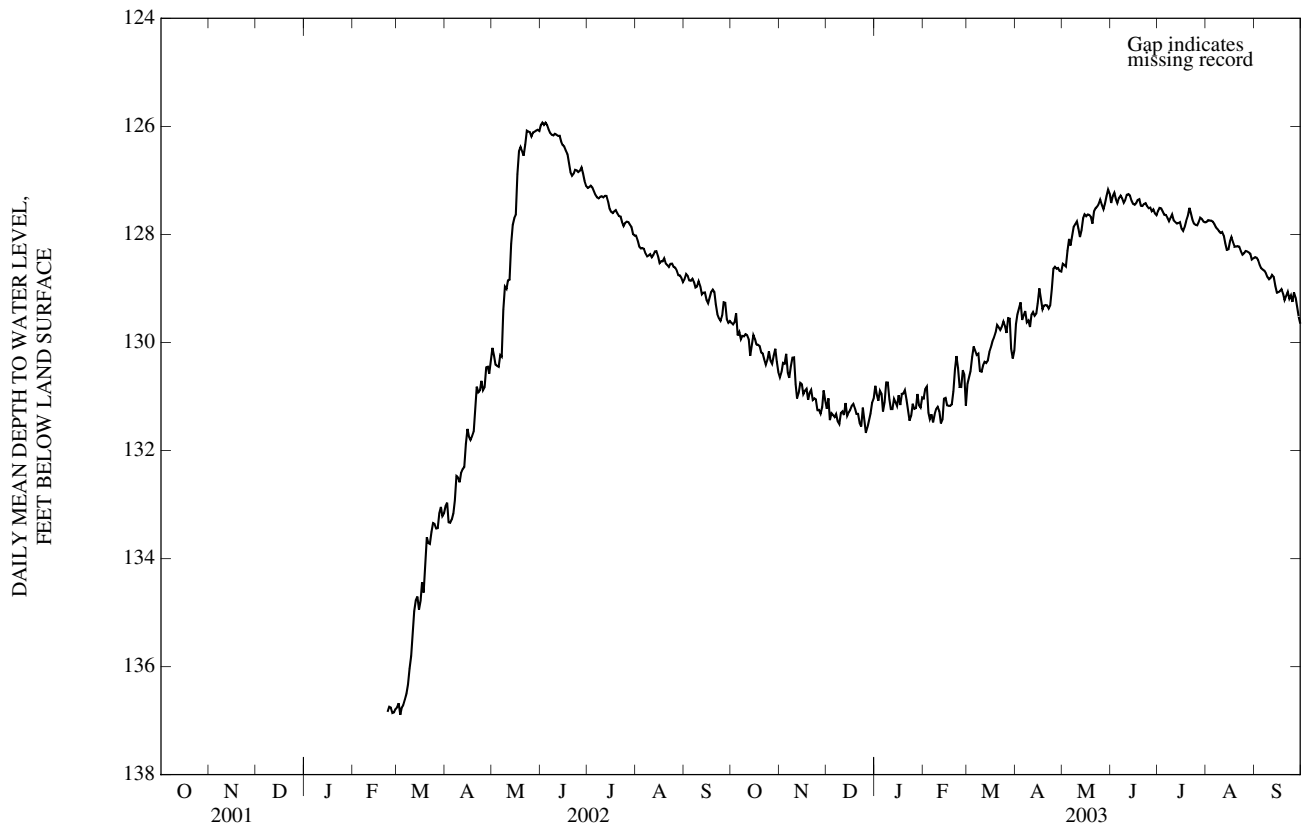
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	136.75	133.03	130.10	125.97	127.14	128.02	128.83
2	---	---	---	---	---	136.68	132.96	130.25	125.93	127.12	128.11	128.73
3	---	---	---	---	---	136.89	133.33	130.41	125.97	127.10	128.22	128.77
4	---	---	---	---	---	136.76	133.34	130.43	125.93	127.13	128.26	128.85
5	---	---	---	---	---	136.71	133.27	130.45	125.98	127.20	128.25	128.86
6	---	---	---	---	---	136.61	133.16	130.23	126.05	127.27	128.27	128.82
7	---	---	---	---	---	136.50	132.93	130.26	126.12	127.31	128.35	128.88
8	---	---	---	---	---	136.33	132.47	129.40	126.16	127.33	128.40	128.98
9	---	---	---	---	---	136.04	132.50	128.97	126.17	127.30	128.39	128.96
10	---	---	---	---	---	135.80	132.59	129.01	126.14	127.29	128.37	128.86
11	---	---	---	---	---	135.36	132.41	128.85	126.15	127.31	128.42	128.96
12	---	---	---	---	---	134.97	132.35	128.84	126.18	127.28	128.38	129.11
13	---	---	---	---	---	134.77	132.30	128.17	126.17	127.29	128.31	129.08
14	---	---	---	---	---	134.70	131.88	127.82	126.28	127.39	128.31	129.07
15	---	---	---	---	---	134.95	131.60	127.70	126.34	127.52	128.40	129.21
16	---	---	---	---	---	134.78	131.74	127.64	126.37	127.58	128.53	129.27
17	---	---	---	---	---	134.44	131.80	126.88	126.45	127.60	128.49	129.17
18	---	---	---	---	---	134.63	131.73	126.46	126.51	127.57	128.50	129.06
19	---	---	---	---	---	134.14	131.65	126.38	126.67	127.55	128.44	129.02
20	---	---	---	---	---	133.60	131.23	126.45	126.85	127.61	128.54	129.06
21	---	---	---	---	---	133.71	130.82	126.54	126.91	127.66	128.57	129.29
22	---	---	---	---	---	133.73	130.92	126.33	126.88	127.67	128.60	129.48
23	---	---	---	---	136.84	133.51	130.89	126.08	126.80	127.77	128.54	129.55
24	---	---	---	---	136.74	133.34	130.71	126.10	126.81	127.84	128.54	129.60
25	---	---	---	---	136.76	133.35	130.89	126.11	126.84	127.79	128.60	129.50
26	---	---	---	---	136.86	133.44	130.83	126.19	126.82	127.76	128.61	129.26
27	---	---	---	---	136.85	133.44	130.46	126.11	126.76	127.77	128.67	129.27
28	---	---	---	---	136.79	133.16	130.45	126.10	126.87	127.82	128.75	129.57
29	---	---	---	---	---	133.04	130.58	126.08	127.01	127.86	128.76	129.64
30	---	---	---	---	---	133.21	130.35	126.06	127.10	127.99	128.81	129.60
31	---	---	---	---	---	133.16	---	126.08	---	128.02	128.88	---
MEAN	---	---	---	---	---	134.79	131.84	127.82	126.44	127.51	128.46	129.14
MAX	---	---	---	---	---	136.89	133.34	130.45	127.10	128.02	128.88	129.64
MIN	---	---	---	---	---	133.04	130.35	126.06	125.93	127.10	128.02	128.73

REYNOLDS COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129.63	130.65	131.23	130.80	131.04	130.77	129.66	128.54	127.42	127.57	127.77	128.42
2	129.67	130.55	131.03	130.96	130.86	130.64	129.48	128.56	127.29	127.51	127.74	128.43
3	129.62	130.38	131.44	131.08	130.81	130.53	129.37	128.59	127.23	127.52	127.74	128.47
4	129.46	130.39	131.31	130.89	131.30	130.27	129.26	128.31	127.35	127.58	127.74	128.56
5	129.87	130.21	131.34	130.95	131.42	130.07	129.58	128.08	127.42	127.63	127.76	128.63
6	129.81	130.56	131.38	131.28	131.33	130.15	129.50	128.20	127.32	127.64	127.80	128.65
7	129.94	130.65	131.33	131.10	131.48	130.23	129.42	128.04	127.28	127.69	127.87	128.67
8	129.88	130.44	131.46	130.74	131.33	130.21	129.63	127.85	127.33	127.76	127.90	128.71
9	129.89	130.28	131.51	130.74	131.23	130.53	129.59	127.81	127.42	127.69	127.94	128.79
10	129.85	130.28	131.30	131.05	131.19	130.54	129.71	127.76	127.37	127.63	127.97	128.83
11	129.86	130.77	131.27	131.23	131.27	130.42	129.48	127.89	127.27	127.74	127.95	128.80
12	129.94	131.04	131.34	131.23	131.50	130.36	129.43	128.05	127.25	127.77	128.02	128.75
13	130.24	130.94	131.12	131.04	131.43	130.38	129.51	127.92	127.28	127.80	128.16	128.79
14	130.06	130.75	131.36	131.11	131.04	130.34	129.47	127.70	127.37	127.79	128.29	128.95
15	129.86	130.77	131.29	131.17	131.03	130.18	129.27	127.63	127.43	127.77	128.28	129.08
16	129.94	130.96	131.25	130.98	131.16	130.10	129.00	127.66	127.45	127.89	128.12	129.07
17	130.04	130.89	131.17	131.16	131.17	129.98	129.20	127.63	127.42	127.94	128.05	129.05
18	130.04	130.86	131.14	130.95	131.17	129.91	129.39	127.64	127.36	127.87	128.14	129.01
19	130.06	131.06	131.22	130.95	131.14	129.82	129.32	127.67	127.35	127.75	128.23	129.10
20	130.18	130.93	131.32	130.89	130.90	129.68	129.31	127.80	127.47	127.66	128.22	129.22
21	130.20	130.88	131.32	131.06	130.49	129.72	129.31	127.57	127.47	127.51	128.22	129.14
22	130.31	131.06	131.49	131.26	130.25	129.77	129.37	127.51	127.44	127.60	128.23	129.06
23	130.41	131.03	131.55	131.45	130.47	129.71	129.32	127.49	127.42	127.73	128.31	129.19
24	130.32	131.05	131.21	131.36	130.82	129.61	129.01	127.44	127.48	127.80	128.37	129.13
25	130.17	131.25	131.44	131.13	130.82	129.69	128.63	127.35	127.52	127.82	128.35	129.25
26	130.33	131.25	131.67	131.23	130.51	129.82	128.60	127.45	127.50	127.83	128.31	129.07
27	130.39	131.32	131.57	131.21	130.59	129.55	128.63	127.53	127.57	127.78	128.32	129.17
28	130.24	131.19	131.44	130.95	131.17	129.56	128.62	127.43	127.54	127.69	128.33	129.36
29	130.12	130.89	131.31	131.16	---	130.12	128.68	127.29	127.61	127.71	128.36	129.52
30	130.35	131.08	131.12	131.21	---	130.30	128.69	127.16	127.64	127.76	128.47	129.65
31	130.55	---	131.04	131.02	---	130.15	---	127.24	---	127.78	128.44	---
MEAN	130.04	130.81	131.32	131.08	131.03	130.10	129.25	127.77	127.41	127.72	128.11	128.95
MAX	130.55	131.32	131.67	131.45	131.50	130.77	129.71	128.59	127.64	127.94	128.47	129.65
MIN	129.46	130.21	131.03	130.74	130.25	129.55	128.60	127.16	127.23	127.51	127.74	128.42



GROUND-WATER LEVELS

REYNOLDS COUNTY

WELL IDENTIFICATION.--372853091061801; T32N R02W 12ADB; Viburnum Trend Well 6.

LOCATION.--Lat 37°28'53", long 91°06'18", NW ¼ SE ¼ NE ¼ sec.12, T.32 N., R.02 W., approximately 1.0 mile north of Fletcher Mine.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Eminence Dolomite/Potosi Dolomite of Cambrian Age.

CONSTRUCTION DATA.--Drilled November 5, 2001, total depth of well, 250 feet, 210 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 21, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,150 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 3.2 feet above land surface.

REMARKS.--None.

PERIOD OF RECORD.--February 22, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 141.70 ft, Feb. 22; minimum 125.06 ft, May 30.

EXTREMES FOR CURRENT YEAR.--Maximum depth 138.47 ft, Feb. 12; minimum 132.98 ft, June 18.

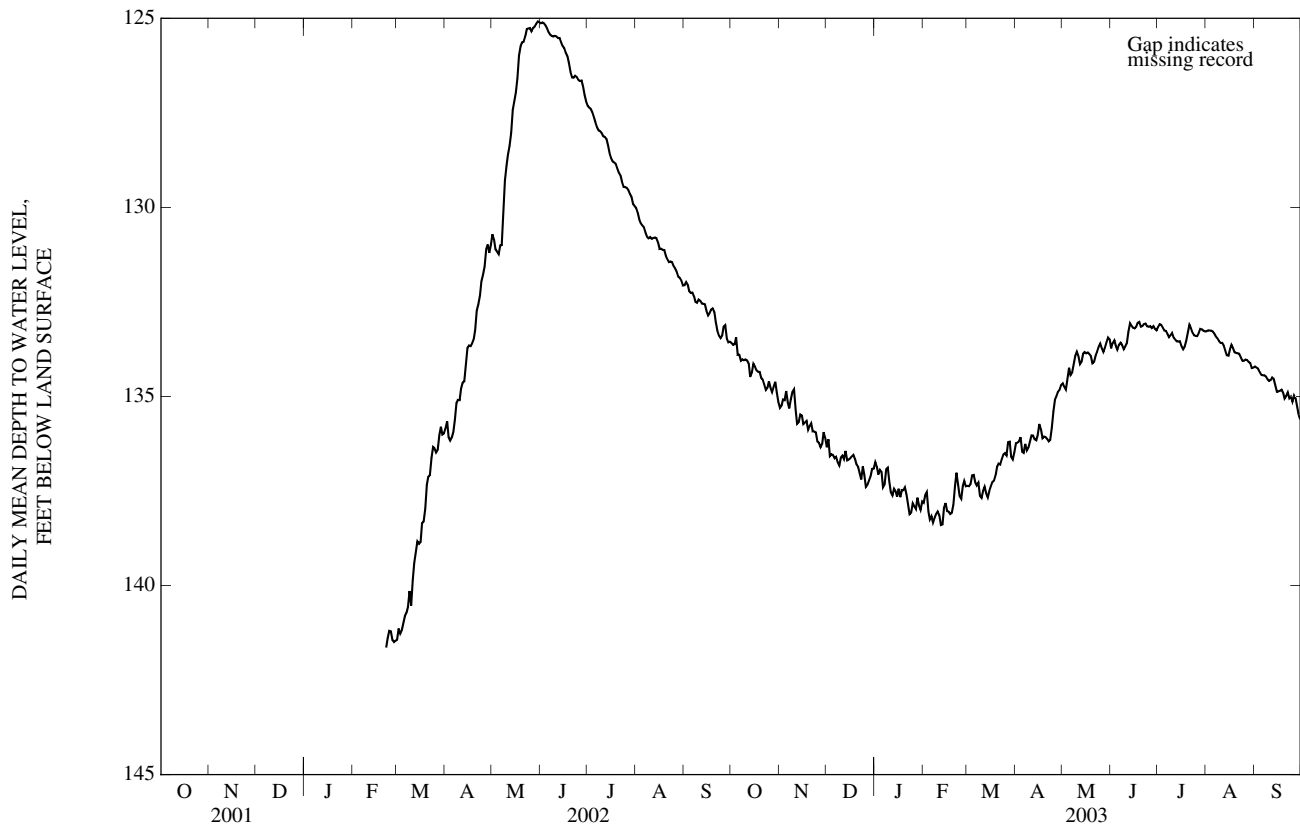
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	141.43	135.84	130.71	125.13	127.31	130.01	132.06
2	---	---	---	---	---	141.14	135.65	130.85	125.11	127.36	130.14	131.98
3	---	---	---	---	---	141.27	136.08	131.11	125.13	127.40	130.32	132.05
4	---	---	---	---	---	141.19	136.16	131.17	125.18	127.49	130.42	132.21
5	---	---	---	---	---	141.00	136.08	131.24	125.26	127.62	130.47	132.26
6	---	---	---	---	---	140.81	135.93	131.00	125.36	127.75	130.53	132.25
7	---	---	---	---	---	140.72	135.63	130.99	125.43	127.88	130.66	132.35
8	---	---	---	---	---	140.57	135.18	130.26	125.47	127.97	130.78	132.49
9	---	---	---	---	---	140.14	135.09	129.29	125.48	127.99	130.82	132.52
10	---	---	---	---	---	140.53	135.09	128.90	125.47	128.03	130.78	132.44
11	---	---	---	---	---	139.85	134.79	128.60	125.48	128.12	130.83	132.47
12	---	---	---	---	---	139.41	134.63	128.38	125.52	128.14	130.81	132.54
13	---	---	---	---	---	139.11	134.60	128.03	125.52	128.19	130.79	132.55
14	---	---	---	---	---	138.83	134.17	127.42	125.64	128.37	130.81	132.56
15	---	---	---	---	---	138.89	133.71	127.18	125.73	128.56	130.92	132.74
16	---	---	---	---	---	138.85	133.65	126.97	125.78	128.70	131.10	132.86
17	---	---	---	---	---	138.35	133.67	126.59	125.91	128.78	131.09	132.79
18	---	---	---	---	---	138.31	133.60	125.99	126.00	128.81	131.12	132.70
19	---	---	---	---	---	137.98	133.49	125.74	126.18	128.85	131.12	132.67
20	---	---	---	---	---	137.34	133.25	125.64	126.42	128.97	131.28	132.76
21	---	---	---	---	---	137.12	132.72	125.62	126.56	129.09	131.37	133.03
22	---	---	---	---	141.64	137.08	132.56	125.48	126.57	129.16	131.45	133.26
23	---	---	---	---	141.39	136.63	132.33	125.28	126.52	129.32	131.43	133.39
24	---	---	---	---	141.19	136.33	131.96	125.27	126.55	129.46	131.45	133.45
25	---	---	---	---	141.21	136.37	131.78	125.26	126.63	129.46	131.55	133.39
26	---	---	---	---	141.44	136.48	131.56	125.34	126.66	129.48	131.61	133.15
27	---	---	---	---	141.49	136.41	131.11	125.26	126.65	129.54	131.70	133.11
28	---	---	---	---	141.46	136.03	130.98	125.22	126.79	129.63	131.83	133.47
29	---	---	---	---	---	135.80	131.20	125.15	127.02	129.72	131.87	133.57
30	---	---	---	---	---	136.01	131.00	125.08	127.20	129.91	131.95	133.55
31	---	---	---	---	---	135.97	---	125.10	---	129.97	132.06	---
MEAN	---	---	---	---	---	138.58	133.78	127.55	125.94	128.61	131.07	132.75
MAX	---	---	---	---	---	141.43	136.16	131.24	127.20	129.97	132.06	133.57
MIN	---	---	---	---	---	135.80	130.98	125.08	125.11	127.31	130.01	131.98

REYNOLDS COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133.58	135.30	136.34	136.73	137.81	137.36	136.24	134.65	133.73	133.16	133.28	134.21
2	133.63	135.24	136.13	136.85	137.61	137.37	136.22	134.74	133.59	133.09	133.25	134.23
3	133.62	135.08	136.57	137.07	137.53	137.32	136.19	134.82	133.51	133.10	133.25	134.25
4	133.44	135.10	136.53	136.94	138.05	137.09	136.07	134.54	133.67	133.18	133.26	134.35
5	133.89	134.86	136.55	136.99	138.26	137.07	136.46	134.24	133.76	133.25	133.28	134.43
6	133.89	135.16	136.63	137.40	138.17	137.27	136.49	134.43	133.64	133.27	133.33	134.44
7	134.05	135.32	136.59	137.33	138.34	137.35	136.25	134.37	133.58	133.34	133.41	134.44
8	134.02	135.07	136.74	136.92	138.21	137.28	136.43	134.14	133.64	133.43	133.47	134.47
9	134.04	134.87	136.82	136.88	138.10	137.63	136.35	133.92	133.74	133.38	133.53	134.54
10	134.02	134.81	136.61	137.27	138.04	137.68	136.19	133.81	133.68	133.32	133.59	134.59
11	134.05	135.35	136.56	137.53	138.14	137.49	136.03	133.92	133.59	133.44	133.58	134.57
12	134.13	135.72	136.65	137.61	138.40	137.39	136.03	134.14	133.28	133.50	133.65	134.50
13	134.48	135.68	136.44	137.44	138.38	137.56	136.13	134.08	133.06	133.54	133.78	134.53
14	134.38	135.48	136.69	137.51	137.95	137.67	136.16	133.87	133.13	133.54	133.91	134.71
15	134.13	135.50	136.67	137.65	137.82	137.49	136.02	133.82	133.18	133.54	133.92	134.87
16	134.20	135.73	136.64	137.44	138.03	137.38	135.73	133.86	133.20	133.67	133.75	134.87
17	134.30	135.69	136.58	137.66	138.05	137.26	135.86	133.84	133.15	133.75	133.63	134.85
18	134.34	135.64	136.54	137.47	138.11	137.23	136.10	133.87	133.05	133.69	133.72	134.82
19	134.35	135.88	136.65	137.48	138.08	137.08	136.06	133.93	133.03	133.53	133.83	134.90
20	134.51	135.78	136.79	137.40	137.86	136.86	136.07	134.12	133.15	133.31	133.85	135.05
21	134.55	135.71	136.85	137.59	137.36	136.77	136.12	134.08	133.14	133.10	133.85	134.99
22	134.68	135.92	137.02	137.87	137.02	136.80	136.18	133.92	133.08	133.18	133.87	134.89
23	134.82	135.92	137.19	138.11	137.31	136.66	136.15	133.82	133.07	133.30	133.96	135.05
24	134.76	135.95	136.85	138.07	137.63	136.53	135.83	133.69	133.14	133.38	134.06	135.00
25	134.60	136.19	137.06	137.82	137.70	136.50	135.40	133.60	133.16	133.40	134.05	135.13
26	134.77	136.22	137.39	137.90	137.37	136.56	135.08	133.72	133.14	133.40	134.02	134.97
27	134.89	136.34	137.34	137.97	137.23	136.21	134.99	133.82	133.19	133.33	134.04	135.05
28	134.74	136.25	137.22	137.68	137.37	136.19	134.87	133.72	133.14	133.21	134.09	135.29
29	134.61	135.94	137.12	137.88	---	136.59	134.82	133.57	133.21	133.22	134.12	135.49
30	134.88	136.09	136.91	137.99	---	136.66	134.69	133.44	133.25	133.26	134.25	135.60
31	135.15	---	136.91	137.78	---	136.47	---	133.49	---	133.28	134.23	---
MEAN	134.31	135.59	136.76	137.49	137.85	137.06	135.91	134.00	133.33	133.36	133.74	134.77
MAX	135.15	136.34	137.39	138.11	138.40	137.68	136.49	134.82	133.76	133.75	134.25	135.60
MIN	133.44	134.81	136.13	136.73	137.02	136.19	134.69	133.44	133.03	133.09	133.25	134.21



GROUND-WATER LEVELS

REYNOLDS COUNTY

WELL IDENTIFICATION.--372608091063301; T32N R02W 25ACD ; Viburnum Trend Well 7.

LOCATION.--Lat 37°26'08", long 91°06'33", SE ¼ SW ¼ NE ¼ sec.25, T.32 N., R.02 W., approximately 0.8 mile north of intersection of Highways 72 and TT.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Gasconade Dolomite of Ordovician age and Eminence Dolomite/Potosi Dolomite of Cambrian age.

CONSTRUCTION DATA.--Drilled October 31, 2001, total depth of well, 275 feet, 250 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed March 19, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 1,165 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.2 feet above land surface.

REMARKS.--None

PERIOD OF RECORD.--March 20, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 142.42 ft, March 21; minimum 139.31 ft, July 12.

EXTREMES FOR CURRENT YEAR.--Maximum depth 141.90 ft, Feb. 12; minimum 139.70 ft, Oct. 4.

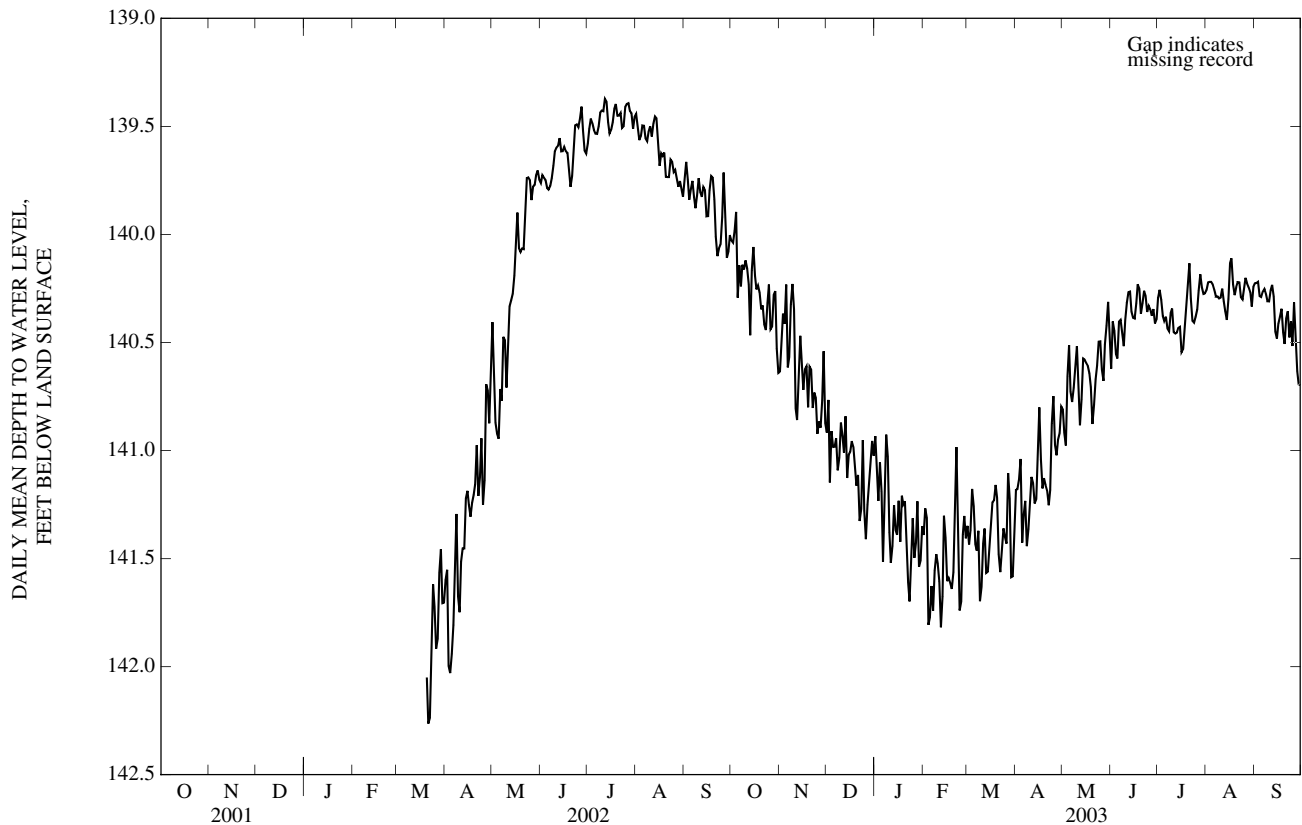
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	141.60	140.41	139.76	139.58	139.44	139.74
2	---	---	---	---	---	---	141.55	140.67	139.73	139.51	139.51	139.66
3	---	---	---	---	---	---	142.00	140.87	139.74	139.46	139.56	139.75
4	---	---	---	---	---	---	142.03	140.92	139.75	139.49	139.54	139.84
5	---	---	---	---	---	---	141.94	140.95	139.78	139.52	139.50	139.79
6	---	---	---	---	---	---	141.81	140.72	139.79	139.53	139.50	139.75
7	---	---	---	---	---	---	141.55	140.77	139.78	139.53	139.56	139.83
8	---	---	---	---	---	---	141.29	140.47	139.74	139.50	139.57	139.88
9	---	---	---	---	---	---	141.68	140.49	139.68	139.44	139.52	139.82
10	---	---	---	---	---	---	141.75	140.71	139.62	139.43	139.50	139.74
11	---	---	---	---	---	---	141.51	140.49	139.60	139.43	139.55	139.80
12	---	---	---	---	---	---	141.45	140.33	139.59	139.37	139.49	139.83
13	---	---	---	---	---	---	141.45	140.30	139.55	139.39	139.45	139.78
14	---	---	---	---	---	---	141.22	140.27	139.62	139.48	139.46	139.79
15	---	---	---	---	---	---	141.19	140.19	139.61	139.53	139.56	139.92
16	---	---	---	---	---	---	141.25	140.06	139.59	139.52	139.68	139.91
17	---	---	---	---	---	---	141.31	139.90	139.62	139.48	139.62	139.80
18	---	---	---	---	---	---	141.24	140.06	139.62	139.42	139.64	139.73
19	---	---	---	---	---	---	141.20	140.08	139.69	139.40	139.62	139.74
20	---	---	---	---	---	142.05	141.16	140.07	139.78	139.45	139.73	139.84
21	---	---	---	---	---	142.26	140.98	140.07	139.73	139.45	139.73	140.01
22	---	---	---	---	---	142.24	141.21	139.92	139.60	139.44	139.73	140.10
23	---	---	---	---	---	141.87	141.12	139.74	139.50	139.51	139.65	140.06
24	---	---	---	---	---	141.62	140.94	139.74	139.49	139.50	139.66	140.05
25	---	---	---	---	---	141.72	141.25	139.75	139.50	139.41	139.71	139.92
26	---	---	---	---	---	141.92	141.14	139.84	139.46	139.40	139.70	139.71
27	---	---	---	---	---	141.87	140.69	139.78	139.41	139.39	139.74	139.87
28	---	---	---	---	---	141.57	140.72	139.77	139.52	139.43	139.78	140.11
29	---	---	---	---	---	141.46	140.87	139.73	139.61	139.44	139.75	140.08
30	---	---	---	---	---	141.71	140.65	139.70	139.63	139.51	139.79	140.00
31	---	---	---	---	---	141.70	---	139.75	---	139.45	139.83	---
MEAN	---	---	---	---	---	---	141.32	140.21	139.64	139.46	139.62	139.86
MAX	---	---	---	---	---	---	142.03	140.95	139.79	139.58	139.83	140.11
MIN	---	---	---	---	---	---	140.65	139.70	139.41	139.37	139.44	139.66

REYNOLDS COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140.03	140.63	140.92	140.93	141.39	141.35	141.18	140.81	140.62	140.29	140.26	140.23
2	140.04	140.48	140.77	141.09	141.27	141.43	141.18	140.92	140.40	140.26	140.22	140.22
3	139.98	140.37	141.15	141.23	141.31	141.37	141.13	140.98	140.45	140.30	140.22	140.22
4	139.90	140.41	140.91	141.06	141.81	141.18	141.04	140.66	140.55	140.38	140.22	140.28
5	140.29	140.23	140.98	141.19	141.77	141.26	141.43	140.51	140.57	140.40	140.23	140.29
6	140.14	140.62	140.98	141.52	141.63	141.43	141.30	140.73	140.40	140.38	140.26	140.26
7	140.24	140.57	140.94	141.26	141.74	141.46	141.23	140.78	140.40	140.44	140.29	140.25
8	140.14	140.32	141.09	140.93	141.55	141.37	141.44	140.71	140.46	140.45	140.29	140.27
9	140.16	140.23	141.03	141.03	141.48	141.70	141.36	140.61	140.52	140.36	140.30	140.31
10	140.12	140.35	140.87	141.38	141.52	141.63	141.23	140.52	140.40	140.34	140.29	140.31
11	140.16	140.80	140.93	141.52	141.61	141.43	141.12	140.72	140.32	140.45	140.25	140.26
12	140.23	140.86	141.01	141.44	141.82	141.36	141.15	140.88	140.27	140.46	140.31	140.23
13	140.47	140.63	140.84	141.25	141.68	141.57	141.24	140.76	140.26	140.45	140.36	140.29
14	140.17	140.47	141.13	141.37	141.30	141.56	141.23	140.57	140.36	140.43	140.40	140.45
15	140.06	140.60	141.02	141.39	141.40	141.43	141.07	140.58	140.38	140.43	140.30	140.48
16	140.19	140.72	141.01	141.23	141.60	141.33	140.80	140.59	140.39	140.55	140.13	140.41
17	140.25	140.62	140.96	141.42	141.59	141.24	141.04	140.61	140.32	140.53	140.11	140.38
18	140.24	140.61	140.98	141.21	141.61	141.23	141.18	140.64	140.23	140.44	140.23	140.34
19	140.27	140.80	141.07	141.25	141.64	141.16	141.13	140.71	140.25	140.35	140.28	140.45
20	140.35	140.61	141.16	141.24	141.56	141.22	141.16	140.88	140.37	140.25	140.24	140.51
21	140.33	140.62	141.11	141.46	141.18	141.48	141.19	140.79	140.32	140.13	140.22	140.39
22	140.42	140.80	141.33	141.61	140.98	141.56	141.25	140.67	140.26	140.30	140.22	140.36
23	140.44	140.73	141.27	141.70	141.35	141.45	141.18	140.61	140.28	140.40	140.29	140.48
24	140.32	140.75	140.95	141.52	141.74	141.36	140.88	140.50	140.36	140.41	140.30	140.40
25	140.23	140.92	141.28	141.31	141.70	141.40	140.75	140.49	140.33	140.38	140.25	140.52
26	140.44	140.87	141.41	141.50	141.39	141.43	140.97	140.62	140.35	140.35	140.20	140.31
27	140.43	140.89	141.25	141.43	141.30	141.10	141.02	140.68	140.38	140.26	140.23	140.49
28	140.28	140.77	141.14	141.24	141.41	141.22	140.95	140.51	140.35	140.18	140.25	140.63
29	140.26	140.54	141.06	141.54	---	141.59	140.92	140.42	140.41	140.24	140.27	140.69
30	140.53	140.87	140.96	141.51	---	141.58	140.80	140.31	140.39	140.28	140.33	140.70
31	140.64	---	141.02	141.35	---	141.37	---	140.49	---	140.27	140.24	---
MEAN	140.25	140.62	141.05	141.33	141.51	141.40	141.12	140.65	140.38	140.36	140.26	140.38
MAX	140.64	140.92	141.41	141.70	141.82	141.70	141.44	140.98	140.62	140.55	140.40	140.70
MIN	139.90	140.23	140.77	140.93	140.98	141.10	140.75	140.31	140.23	140.13	140.11	140.22



GROUND-WATER LEVELS

REYNOLDS COUNTY

WELL IDENTIFICATION.--371910091081101; T30N R02W 02CBA; Viburnum Trend Well 8

LOCATION.--Lat 37°19'10", long 91°08'11", NE ¼ NW ¼ SW ¼ sec.02, T.30 N., R.02 W., approximately 10 miles southeast of Bunker.

FORMATIONS OPEN TO WELL.--Unconfined Ozark aquifer, Eminence Dolomite/Potosi Dolomite of Cambrian age.

CONSTRUCTION DATA.--Drilled November 5, 2001, total depth of well, 110 feet, 80 feet of 6-inch steel casing, open hole.

INSTRUMENTATION.--Pressure transducer and data logger installed February 22, 2002. Water level recorded hourly.

DATUM.--Land surface altitude is 990 feet above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point is top of steel casing 2.1 feet above land surface.

REMARKS.--None

PERIOD OF RECORD.--February 23, 2002 to current year.

EXTREMES FOR 2002 WATER YEAR.--Maximum depth 45.18 ft, Sept. 30; minimum 25.07 ft, May 17.

EXTREMES FOR CURRENT YEAR.--Maximum depth 49.89 ft, Dec. 9; minimum 36.59 ft, June 26.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	44.40	36.70	33.15	32.90	39.48	40.14	41.87
2	---	---	---	---	---	43.65	36.72	33.22	33.14	39.55	40.20	41.65
3	---	---	---	---	---	41.91	37.18	33.68	33.37	39.60	40.31	41.67
4	---	---	---	---	---	41.98	37.43	33.99	33.59	39.71	40.37	41.78
5	---	---	---	---	---	42.09	37.70	34.28	33.78	39.85	40.39	41.82
6	---	---	---	---	---	42.26	37.79	34.30	34.04	39.98	40.41	41.82
7	---	---	---	---	---	42.68	37.64	33.94	34.40	40.12	40.53	41.89
8	---	---	---	---	---	42.76	33.61	29.08	34.62	40.23	40.82	42.02
9	---	---	---	---	---	37.92	32.84	27.25	34.82	40.27	41.33	42.05
10	---	---	---	---	---	37.49	33.81	28.21	34.93	40.34	41.02	42.00
11	---	---	---	---	---	37.97	34.27	29.25	35.11	40.42	40.94	42.04
12	---	---	---	---	---	37.13	34.63	29.98	35.34	40.12	40.92	42.13
13	---	---	---	---	---	37.35	34.98	27.55	35.93	39.65	40.36	42.30
14	---	---	---	---	---	37.75	34.58	27.71	36.89	40.32	40.11	42.40
15	---	---	---	---	---	38.35	34.31	28.73	37.08	40.31	40.71	42.58
16	---	---	---	---	---	38.76	34.50	29.50	37.24	39.75	40.84	42.70
17	---	---	---	---	---	38.80	34.79	26.44	37.46	40.50	40.84	42.66
18	---	---	---	---	---	39.07	34.98	25.82	37.64	40.62	40.92	42.66
19	---	---	---	---	---	37.83	35.13	27.16	37.89	40.67	40.93	43.12
20	---	---	---	---	---	34.27	35.34	28.09	38.36	40.73	41.05	43.60
21	---	---	---	---	---	34.72	35.36	28.96	38.50	40.81	41.14	44.04
22	---	---	---	---	---	35.48	35.70	29.62	38.47	40.85	41.21	44.37
23	---	---	---	---	41.33	35.67	35.82	30.08	38.46	40.68	41.30	44.57
24	---	---	---	---	41.39	35.87	34.19	30.56	38.55	40.96	40.20	44.71
25	---	---	---	---	42.39	36.01	33.19	30.94	38.65	40.99	40.95	44.73
26	---	---	---	---	43.28	36.01	33.49	31.39	38.74	40.52	41.08	44.62
27	---	---	---	---	43.89	36.09	33.48	31.67	38.79	40.17	41.16	44.67
28	---	---	---	---	44.17	35.93	33.57	31.98	38.93	40.07	41.26	44.98
29	---	---	---	---	---	35.91	34.01	32.21	39.16	40.04	41.27	45.10
30	---	---	---	---	---	36.30	34.00	32.41	39.34	40.12	41.56	45.14
31	---	---	---	---	---	36.53	---	32.64	---	40.16	42.26	---
MEAN	---	---	---	---	---	38.35	35.06	30.44	36.54	40.24	40.86	43.06
MAX	---	---	---	---	---	44.40	37.79	34.30	39.34	40.99	42.26	45.14
MIN	---	---	---	---	---	34.27	32.84	25.82	32.90	39.48	40.11	41.65

REYNOLDS COUNTY—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.22	47.80	49.36	41.36	48.26	41.15	40.48	37.57	41.09	38.61	41.92	44.32
2	45.30	47.75	49.25	42.23	48.15	41.00	40.69	36.85	41.06	39.30	42.02	42.59
3	45.35	47.64	49.56	44.03	48.12	40.98	40.91	37.02	41.06	39.77	42.11	43.83
4	45.40	47.69	49.52	44.58	48.55	40.82	41.04	36.94	41.29	40.18	42.00	44.24
5	46.10	47.47	49.59	44.95	48.75	41.34	41.81	36.79	41.45	40.50	41.96	44.42
6	45.95	47.68	49.67	46.10	48.77	42.28	40.83	37.16	41.43	40.68	42.25	44.48
7	46.00	47.76	49.67	46.39	48.97	42.72	37.98	36.87	41.47	40.89	42.43	44.53
8	45.98	47.60	49.79	45.98	48.92	42.94	38.31	36.83	41.61	41.10	42.57	44.59
9	46.02	47.49	49.84	46.08	48.88	43.77	38.59	36.80	41.79	41.16	42.71	44.69
10	46.03	47.47	49.73	46.66	48.88	44.14	38.69	36.88	41.72	41.21	42.83	44.77
11	46.10	47.87	49.74	46.98	48.98	43.98	38.68	37.14	41.04	41.42	42.89	44.79
12	46.21	48.11	49.83	47.13	49.15	43.91	38.79	37.44	38.23	41.46	43.01	44.79
13	46.50	48.21	49.71	47.02	49.07	43.59	38.94	37.62	38.19	41.66	43.18	44.76
14	46.50	48.25	49.66	47.12	45.27	43.26	39.19	37.72	38.24	41.76	43.36	43.92
15	46.84	48.36	49.51	47.30	42.66	42.86	39.53	37.96	38.61	41.85	43.44	44.85
16	46.86	48.57	49.55	47.16	43.06	42.67	39.32	38.57	39.56	42.05	43.38	44.97
17	46.97	48.59	49.56	47.40	44.16	42.52	39.97	38.77	40.21	42.19	43.35	45.02
18	47.26	48.61	48.51	47.31	44.72	42.60	40.81	39.13	40.45	42.22	43.47	45.03
19	47.11	48.79	44.29	47.35	41.80	41.26	41.00	39.38	40.51	37.51	43.62	45.14
20	47.16	48.75	45.87	47.31	41.07	39.54	41.18	39.87	39.64	37.52	43.70	45.29
21	47.18	48.75	47.36	47.52	41.15	38.81	41.39	40.08	40.35	37.96	43.76	45.28
22	47.41	48.93	48.42	47.87	40.39	39.20	41.63	40.09	40.61	38.41	43.83	45.24
23	47.94	48.95	48.87	48.50	40.17	39.39	41.70	40.18	40.84	39.59	43.97	45.39
24	47.72	48.98	48.18	48.33	40.89	39.53	40.44	40.20	41.08	40.61	44.10	45.43
25	47.50	49.16	48.25	48.07	41.28	39.70	38.11	40.22	41.30	40.99	44.16	45.62
26	47.59	49.19	48.75	48.11	41.03	39.70	37.01	40.48	37.84	41.21	44.25	45.58
27	47.66	49.29	48.77	48.18	40.96	39.50	37.21	40.70	36.88	41.31	44.29	45.70
28	47.57	49.25	48.67	48.03	41.42	39.50	37.44	40.70	37.44	41.34	44.35	45.94
29	46.62	49.06	47.36	48.44	---	39.99	37.62	40.65	37.81	41.50	44.40	46.18
30	47.43	49.20	43.04	48.44	---	40.72	37.73	40.62	38.11	41.67	44.39	46.38
31	47.70	---	41.56	48.24	---	40.68	---	40.77	---	41.80	44.47	---
MEAN	46.68	48.37	48.43	46.78	45.12	41.42	39.57	38.65	40.03	40.63	43.30	44.93
MAX	47.94	49.29	49.84	48.50	49.15	44.14	41.81	40.77	41.79	42.22	44.47	46.38
MIN	45.22	47.47	41.56	41.36	40.17	38.81	37.01	36.79	36.88	37.51	41.92	42.59

