

07061270 EAST FORK BLACK RIVER NEAR LESTERVILLE, MO

LOCATION.--Lat 37°33'09", long 90°50'33", in SW 1/4 NW 1/4 SW 1/4 sec.9, T.33 N., R.2 E., Reynolds County, Hydrologic Unit 11010007, on downstream side of bridge on Highway N, approximately 5 miles north of junction of Highways 21 and N, 0.5 mi north of Johnson's Shut In Park entrance.

DRAINAGE AREA.--52.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2001 to September 2002, October 2003 to current year.

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

REMARKS.--Records fair except for discharges above 5,000 ft<sup>3</sup>/s, which are poor. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	164	331	22	26	41	55	60	9.5	4.7	8.4	6.9
2	3.5	319	175	23	26	39	50	52	9.3	4.2	7.6	6.3
3	3.4	135	117	25	27	37	46	47	9.2	3.9	6.9	5.7
4	3.3	115	91	69	26	36	43	43	8.6	7.0	6.3	5.1
5	3.2	84	77	1,040	26	34	39	39	8.2	8.0	5.8	4.6
6	3.1	65	79	699	26	33	37	35	7.7	5.6	6.9	4.1
7	2.9	54	308	249	37	32	37	32	7.7	5.1	7.5	4.0
8	5.8	46	192	167	64	31	36	30	8.4	4.6	6.3	3.6
9	6.4	40	127	125	69	29	34	28	7.7	4.1	5.6	3.2
10	5.3	35	98	106	66	28	33	25	7.3	4.0	5.1	3.0
11	5.7	534	79	91	59	27	36	22	9.2	6.1	4.8	2.7
12	7.5	286	68	82	54	26	65	21	10	20	3.9	2.4
13	7.9	133	59	1,370	159	26	77	20	8.4	19	3.2	2.4
14	9.0	87	54	397	170	25	74	28	7.9	14	5.7	7.2
15	12	68	49	206	115	24	64	24	7.2	12	7.6	15
16	12	57	45	140	90	23	57	21	7.3	10	35	22
17	11	49	41	108	75	23	52	20	7.0	9.3	20	15
18	10	47	37	89	65	22	47	18	6.4	13	15	15
19	10	81	35	77	59	21	44	17	6.0	49	12	14
20	9.6	80	33	68	55	21	43	17	5.6	28	10	13
21	9.5	66	31	62	51	21	191	16	5.5	21	9.4	12
22	8.8	59	30	55	48	65	129	17	5.1	18	10	11
23	18	55	28	49	46	139	109	15	4.8	16	9.6	10
24	21	429	26	45	46	98	93	14	4.5	15	8.5	9.5
25	16	298	25	40	47	86	79	13	4.6	13	9.5	13
26	15	150	24	38	45	79	79	13	5.4	12	11	20
27	292	107	23	34	44	99	74	12	4.6	14	10	16
28	140	88	23	32	43	104	72	12	4.5	12	9.8	17
29	72	161	22	32	---	84	74	11	4.3	11	8.6	43
30	55	499	22	30	---	72	68	11	4.2	9.9	7.9	29
31	46	---	21	28	---	62	---	10	---	9.1	7.6	---
MEAN	26.7	146	76.5	181	59.4	48.0	64.6	24.0	6.87	12.3	9.21	11.2
MAX	292	534	331	1,370	170	139	191	60	10	49	35	43
MIN	2.9	35	21	22	26	21	33	10	4.2	3.9	3.2	2.4
IN.	0.59	3.13	1.69	3.99	1.19	1.06	1.38	0.53	0.15	0.27	0.20	0.24

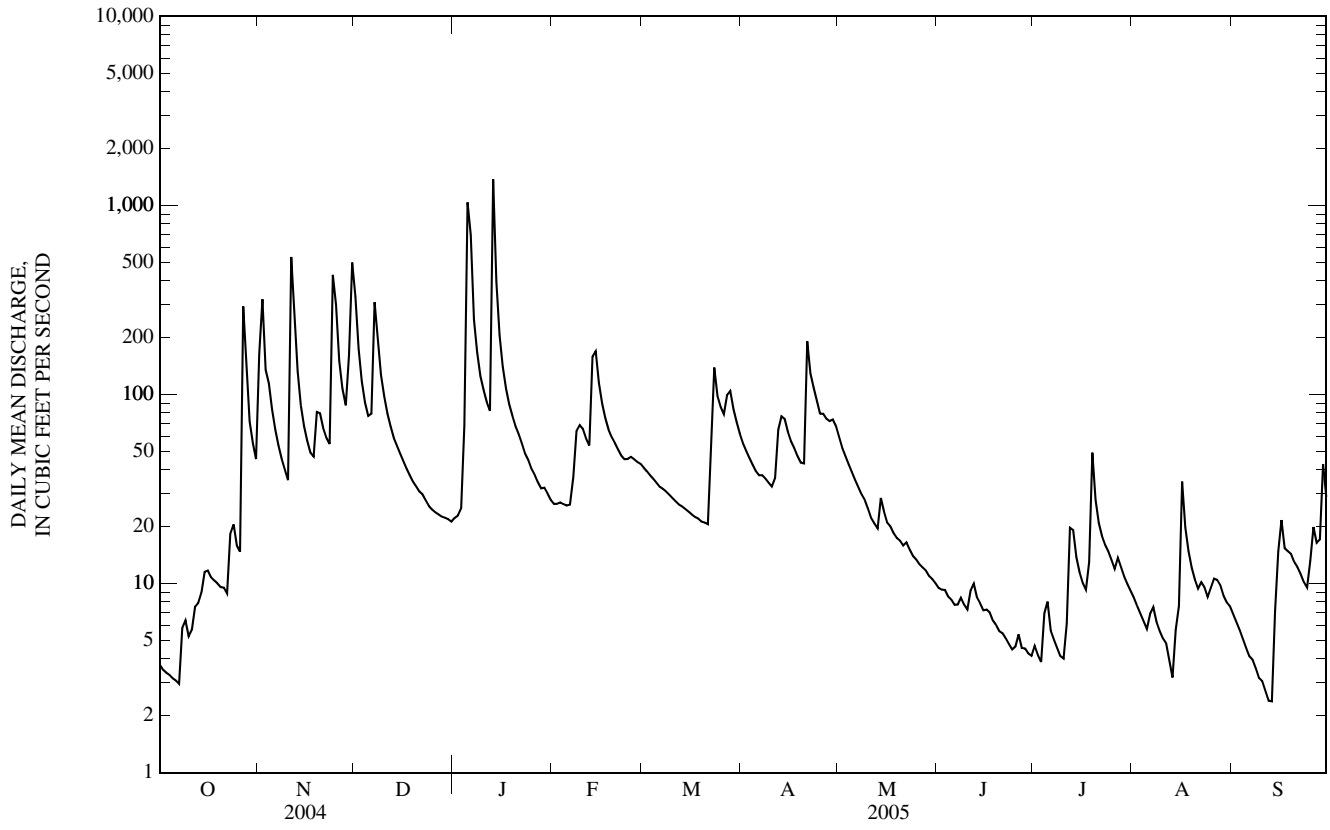
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	12.2	67.3	82.7	85.3	73.5	110	116	260	25.4	10.6	11.6	8.21
MAX	26.7	146	125	181	98.3	223	196	746	50.0	12.3	15.5	11.2
(WY)	(2005)	(2005)	(2002)	(2005)	(2002)	(2002)	(2002)	(2002)	(2003)	(2005)	(2002)	(2005)
MIN	5.72	9.67	57.7	39.3	47.6	48.0	64.6	24.0	6.87	8.63	9.21	5.75
(WY)	(2004)	(2003)	(2003)	(2002)	(2004)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	62.7	55.4	79.4
HIGHEST ANNUAL MEAN			126
LOWEST ANNUAL MEAN			55.4
HIGHEST DAILY MEAN	861	1,370	6,080
LOWEST DAILY MEAN	2.2	2.4	2.2
ANNUAL SEVEN-DAY MINIMUM	2.8	3.0	2.8
MAXIMUM PEAK FLOW	---	2,600	35,500
MAXIMUM PEAK STAGE	---	4.04	13.32
INSTANTANEOUS LOW FLOW	---	1.8	1.8
ANNUAL RUNOFF (INCHES)	16.35	14.42	20.67
10 PERCENT EXCEEDS	135	108	135
50 PERCENT EXCEEDS	33	26	25
90 PERCENT EXCEEDS	5.3	5.2	5.5

07061270 EAST FORK BLACK RIVER NEAR LESTERVILLE, MO—Continued



07061500 BLACK RIVER NEAR ANNAPOLIS, MO

LOCATION.--Lat 37°20'17", long 90°47'19", in SW 1/4 NW 1/4 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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	441	2,850	305	364	422	521	489	161	111	130	147
2	126	1,340	1,890	311	350	422	511	477	186	111	125	139
3	126	1,230	1,330	318	350	400	474	472	191	110	121	131
4	124	936	1,050	364	343	381	455	393	162	127	117	127
5	124	787	879	1,670	334	373	434	386	147	130	113	123
6	124	665	866	5,860	333	363	389	355	140	130	113	120
7	124	574	1,200	2,910	367	337	428	323	137	128	118	116
8	136	508	1,640	1,650	472	337	409	305	138	123	120	113
9	154	457	1,230	1,290	508	341	361	311	142	119	117	112
10	164	421	1,040	1,200	482	324	349	319	143	115	113	110
11	167	907	817	937	539	309	380	285	149	122	110	108
12	177	2,270	756	832	546	295	422	271	156	184	108	106
13	181	1,390	772	4,650	579	286	536	253	153	238	104	105
14	186	980	520	5,570	1,160	308	614	275	144	231	108	125
15	193	779	432	2,820	1,210	309	509	305	139	199	122	195
16	194	658	513	1,530	1,020	291	491	290	135	177	372	407
17	187	556	464	1,230	802	291	470	267	131	164	562	421
18	183	475	406	989	768	272	490	250	128	158	340	339
19	177	504	378	896	719	274	469	240	126	358	262	307
20	172	547	438	755	614	270	394	240	123	472	219	284
21	168	545	482	692	523	269	880	232	121	344	197	250
22	165	557	354	646	507	311	1,660	229	118	284	208	228
23	189	562	261	584	482	545	1,160	224	114	241	203	211
24	222	712	246	565	515	696	952	218	112	217	193	199
25	230	2,070	300	491	483	589	826	208	110	199	182	216
26	219	1,420	292	456	436	601	736	186	108	185	173	276
27	324	951	289	442	409	698	671	174	107	184	175	329
28	815	803	343	422	420	770	574	167	106	184	184	281
29	600	974	328	392	---	711	618	161	106	162	175	312
30	496	1,920	303	378	---	635	504	157	106	147	168	332
31	441	---	303	381	---	579	---	154	---	138	157	---
MEAN	226	898	741	1,340	558	420	590	278	135	187	178	209
MAX	815	2,270	2,850	5,860	1,210	770	1,660	489	191	472	562	421
MIN	124	421	246	305	333	269	349	154	106	110	104	105
IN.	0.54	2.07	1.77	3.19	1.20	1.00	1.36	0.66	0.31	0.45	0.42	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	259	649	671	611	739	985	1,136	915	499	289	209	225
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	135	88.5	76.7	72.4
(WY)	(1957)	(1965)	(1956)	(1956)	(1963)	(1941)	(2000)	(2000)	(2005)	(1954)	(1965)	(1955)

SUMMARY STATISTICS

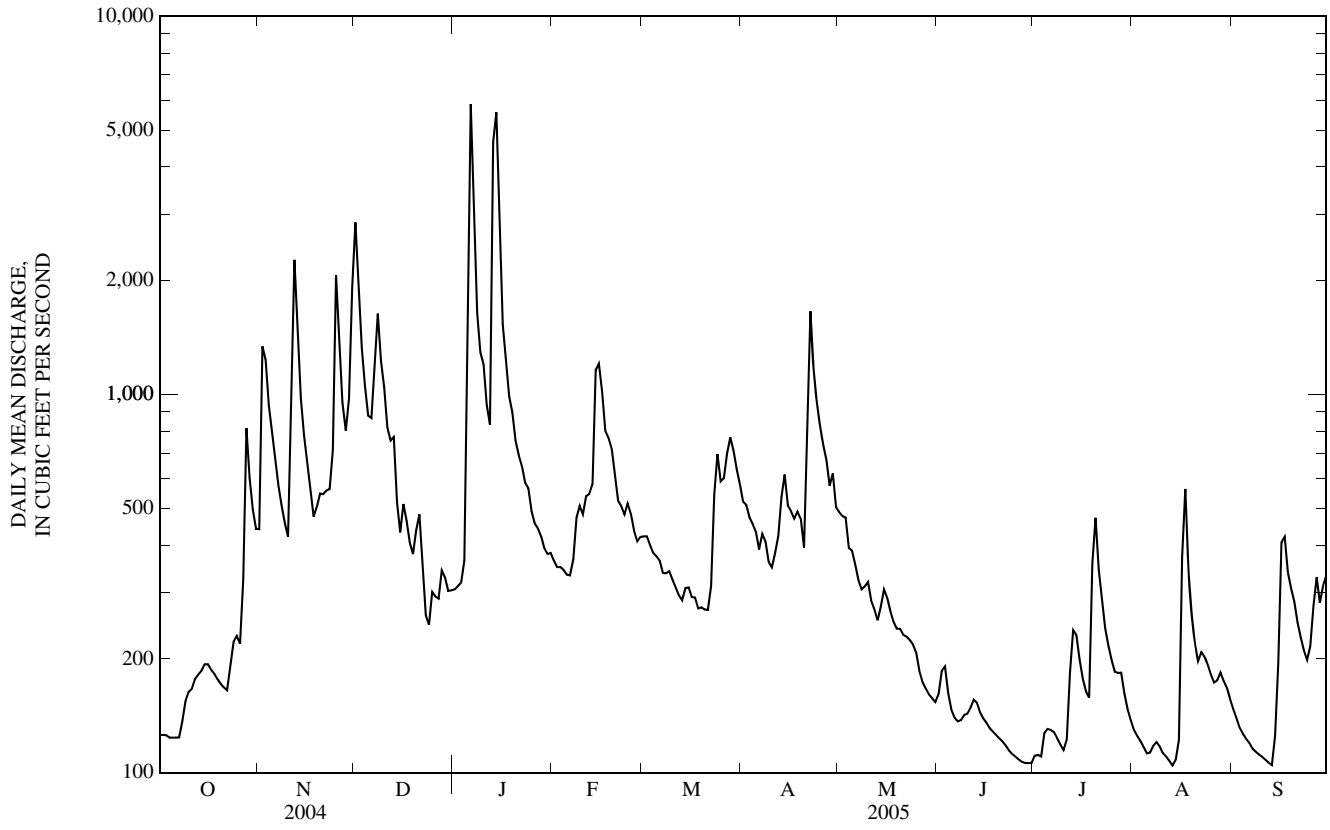
FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1939 - 2005

ANNUAL MEAN	531	479	599
HIGHEST ANNUAL MEAN			1,420
LOWEST ANNUAL MEAN			235
HIGHEST DAILY MEAN	4,170	Apr 25	5,860
LOWEST DAILY MEAN	124	Oct 4-7	104
ANNUAL SEVEN-DAY MINIMUM	125	Oct 1	108
MAXIMUM PEAK FLOW	---		9,240
MAXIMUM PEAK STAGE	---		10.69
INSTANTANEOUS LOW FLOW	---		103
ANNUAL RUNOFF (INCHES)	14.95		13.45
10 PERCENT EXCEEDS	1,040		943
50 PERCENT EXCEEDS	368		319
90 PERCENT EXCEEDS	170		122

07061500 BLACK RIVER NEAR ANNAPOLIS, MO—Continued



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 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 23...	1020	Environmental	374	9.7	95	7.5	252	13.2	130	26.1	15.9	1.12
JAN 25...	1115	Environmental	444	14.4	118	7.6	209	5.7	--	--	--	--
MAR 15...	1100	Blank	--	--	--	--	--	--	--	--	--	--
MAR 15...	1115	Environmental	136	11.7	101	7.8	230	8.5	--	--	--	--
MAY 16...	1230	Environmental	322	9.2	99	8.0	277	17.9	140	27.1	16.5	1.09
JUL 19...	1100	Environmental	371	7.6	95	7.6	287	25.0	--	--	--	--
SEP 06...	1030	Environmental	133	7.6	88	7.2	329	22.5	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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 23...	3.04	104	104	126	<1	3.35	E.1n	19.8	140	13	E.07n	<.04	.19
JAN 25...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	.28
MAR 15...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
MAR 15...	--	--	--	--	--	--	--	--	--	<10	E.08n	<.04	.12
MAY 16...	2.71	117	119	144	<1	2.59	E.1n	16.0	148	<10	E.06n	<.04	.07
JUL 19...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.09
SEP 06...	--	--	--	--	--	--	--	--	--	<10	E.05n	<.04	.07

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)	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)	Iron, water, fltrd, μg/L (01046)
NOV 23...	<.008	<.02	<.04	<.04	22	13k	Mn	8	E.1n	<.04	<.04	.4	E4n
JAN 25...	<.008	<.02	<.04	<.04	1k	4k	--	--	--	--	--	--	--
MAR 15...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
MAR 15...	<.008	<.02	<.04	<.04	<1b	<1b	--	--	--	--	--	--	--
MAY 16...	<.008	<.02	<.04	<.04	<1b	1k	<2	11	E.1n	<.04	<.04	.5	<6
JUL 19...	<.008	<.02	<.04	<.04	9k	32	--	--	--	--	--	--	--
SEP 06...	<.008	<.09d	<.04	<.04	3k	12k	--	--	--	--	--	--	--

## 07061600 BLACK RIVER BELOW ANNAPOLIS, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	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 23...	<.08	E.05n	1.0	<.01	<.4	E.6n	<2
JAN 25...	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--
MAY 16...	<.08	E.06n	2.9	<.01	<.4	2.8	<2
JUL 19...	--	--	--	--	--	--	--
SEP 06...	--	--	--	--	--	--	--

## Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

## Value qualifier codes used in this table:

b -- Value extrapolated at low end

d -- Diluted sample: method hi range exceeded

k -- Counts outside acceptable range

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

07061900 LOGAN CREEK AT ELLINGTON, MO

LOCATION.--Lat 37°14'51", long 90°57'56", in SE 1/4 NW 1/4 NE 1/4 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 mi<sup>2</sup>.

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 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	6.3	27	6.6	15	10	14	10	5.6	4.1	2.3	2.0
2	3.0	6.8	20	6.6	14	10	13	10	5.6	3.7	2.2	1.9
3	3.0	6.6	16	6.9	14	9.9	13	9.7	5.5	3.5	2.2	1.9
4	2.9	6.2	13	11	12	9.8	13	9.3	5.3	4.1	2.1	1.8
5	2.9	6.0	13	18	12	9.5	e12	9.1	5.3	4.2	2.0	1.7
6	2.9	5.8	14	66	12	9.2	e12	8.9	5.3	3.8	2.4	1.5
7	2.9	5.7	25	28	14	9.4	e14	8.7	e5.2	3.7	2.4	1.5
8	3.9	5.5	20	20	13	9.2	e13	8.6	5.2	3.6	2.2	1.4
9	3.4	5.3	18	17	12	9.6	e12	8.6	5.4	3.4	2.1	1.4
10	3.3	5.2	16	15	11	8.8	e11	8.4	5.2	3.4	1.9	1.4
11	4.1	12	15	14	11	8.5	e12	8.2	5.4	4.2	1.9	1.4
12	4.4	8.5	13	15	11	8.5	13	8.0	5.4	6.5	1.8	1.3
13	3.7	7.3	12	378	17	8.2	13	7.8	5.2	4.4	1.8	1.3
14	4.5	6.9	11	211	16	8.0	12	9.7	5.0	4.0	2.4	2.4
15	4.4	6.6	11	93	15	8.0	12	8.2	4.9	3.7	2.8	4.4
16	4.1	6.4	10	60	14	8.0	11	8.0	4.9	3.6	3.2	2.3
17	4.0	6.2	9.9	46	14	7.9	11	7.5	4.8	3.4	2.6	1.9
18	4.0	7.0	9.5	39	13	7.8	11	7.1	4.7	3.6	2.5	2.1
19	4.0	8.7	8.8	36	13	7.8	11	7.1	4.7	5.0	2.2	2.1
20	4.0	7.5	8.3	32	13	7.7	11	6.9	4.7	4.4	3.1	2.0
21	4.0	7.0	8.2	30	13	7.7	18	6.8	4.5	4.3	3.1	1.8
22	3.9	7.0	8.2	26	13	12	14	6.9	4.2	3.7	4.1	1.8
23	5.1	6.8	7.7	24	13	12	13	6.5	4.0	3.6	3.7	1.7
24	4.5	14	7.2	22	12	11	12	5.9	3.8	3.4	3.2	1.7
25	4.4	11	7.0	21	12	11	12	5.7	3.8	3.0	3.0	4.3
26	4.3	10	6.9	20	11	11	13	5.7	3.7	2.9	2.8	3.3
27	4.1	10	6.7	18	11	19	12	5.7	3.7	3.0	2.8	2.4
28	4.4	9.7	6.7	18	11	17	12	5.6	3.9	2.8	2.7	2.3
29	4.2	21	6.7	17	---	16	12	5.5	3.8	2.6	2.5	2.1
30	4.5	33	6.8	16	---	15	11	5.4	3.9	2.5	2.3	1.9
31	4.7	---	6.7	15	---	14	---	e5.5	---	2.4	2.1	---
MEAN	3.89	8.87	11.9	43.4	12.9	10.4	12.4	7.58	4.75	3.69	2.53	2.03
MAX	5.1	33	27	378	17	19	18	10	5.6	6.5	4.1	4.4
MIN	2.9	5.2	6.7	6.6	11	7.7	11	5.4	3.7	2.4	1.8	1.3
IN.	0.03	0.07	0.10	0.36	0.10	0.09	0.10	0.06	0.04	0.03	0.02	0.02

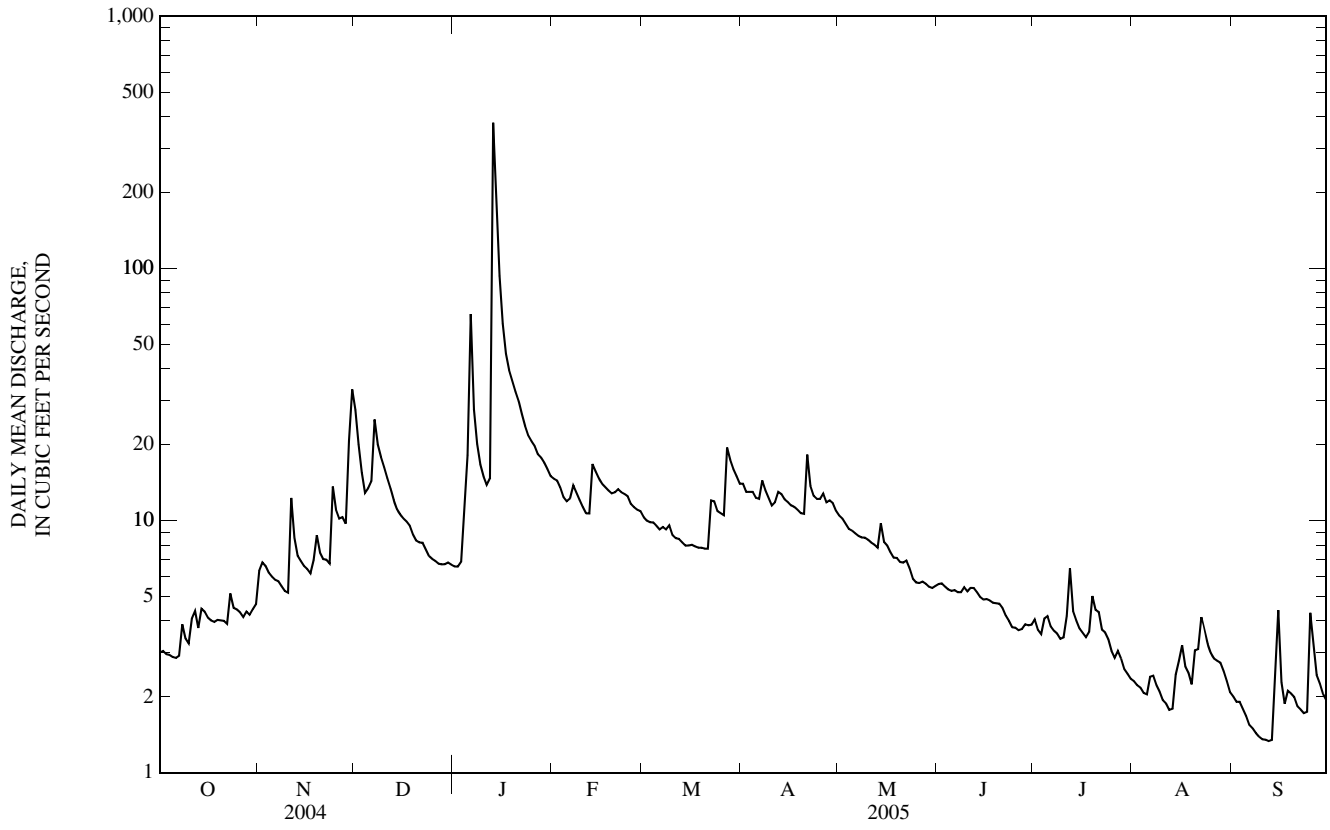
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	4.40	22.3	14.1	14.5	36.7	31.4	53.4	115	23.8	7.66	5.52	5.47
MAX	14.6	95.9	50.2	43.4	201	85.1	225	833	138	28.3	23.2	27.9
(WY)	(1997)	(2004)	(2002)	(2005)	(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)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1994 - 2005
ANNUAL MEAN	15.0	10.4	27.7
HIGHEST ANNUAL MEAN			92.7
LOWEST ANNUAL MEAN			4.94
HIGHEST DAILY MEAN	301	378	7,970
LOWEST DAILY MEAN	2.8	1.3	0.42
ANNUAL SEVEN-DAY MINIMUM	2.9	1.4	0.50
MAXIMUM PEAK FLOW	---	679	16,300
MAXIMUM PEAK STAGE	---	4.84	13.22
INSTANTANEOUS LOW FLOW	---	1.2	0.42
ANNUAL RUNOFF (INCHES)	1.47	1.01	2.71
10 PERCENT EXCEEDS	24	16	29
50 PERCENT EXCEEDS	10	6.8	7.1
90 PERCENT EXCEEDS	3.7	2.3	2.6

e Estimated

07061900 LOGAN CREEK AT ELLINGTON, MO—Continued





## 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 mi<sup>2</sup>.

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, 53,400 ac-ft, Jan. 15, elevation, 508.64 ft; minimum, 22,000 ac-ft, Feb. 22, elevation, 494.02 ft.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495.01	494.34	498.96	494.54	494.50	494.76	494.99	497.83	498.25	497.87	497.15	496.86
2	494.93	494.37	499.95	494.58	494.71	494.69	495.09	498.06	498.26	497.88	497.15	496.86
3	494.81	495.32	499.40	494.65	494.92	494.61	495.14	498.27	498.30	497.89	497.16	496.87
4	494.71	495.27	498.59	494.72	494.86	494.51	495.13	498.47	498.34	497.90	497.17	496.86
5	494.59	494.59	497.39	494.94	494.75	494.53	494.98	498.47	498.36	498.00	497.16	496.84
6	494.51	494.87	496.41	497.24	494.62	494.54	494.77	498.44	498.36	497.99	497.15	496.81
7	494.40	495.05	495.37	502.81	494.54	494.53	494.51	498.50	498.36	497.91	497.16	496.78
8	494.31	495.08	495.35	503.25	494.48	494.52	494.51	498.52	498.34	497.85	497.16	496.74
9	494.39	494.51	495.81	502.31	494.55	494.46	494.63	498.52	498.38	497.86	497.15	496.74
10	494.46	494.60	494.67	501.09	494.69	494.58	494.66	498.53	498.29	497.87	497.15	496.75
11	494.53	494.77	494.49	499.39	494.75	494.69	494.67	498.54	498.24	497.90	497.13	496.75
12	494.83	495.76	494.46	497.07	494.84	494.64	494.81	498.52	498.18	498.14	497.11	496.75
13	494.60	498.03	494.29	495.84	495.00	494.58	494.69	498.47	498.10	498.28	497.09	496.74
14	494.31	499.15	494.29	504.72	495.23	494.49	494.63	498.61	498.09	498.06	497.08	496.78
15	494.12	499.80	494.16	508.22	495.56	494.48	494.70	498.65	498.06	497.83	497.07	496.89
16	494.33	498.97	494.67	508.52	495.75	494.53	494.65	498.68	498.06	497.80	497.14	497.09
17	494.50	497.06	495.26	507.70	495.77	494.53	494.57	498.69	498.07	497.78	497.35	497.03
18	494.65	494.93	495.32	506.55	494.73	494.53	494.44	498.65	498.07	497.77	497.46	496.99
19	494.69	494.58	495.30	505.05	494.63	494.51	494.42	498.59	498.07	497.80	497.30	496.98
20	494.63	494.66	495.17	503.33	494.53	494.49	494.42	498.56	498.06	497.86	497.17	496.71
21	494.53	494.80	495.08	501.38	494.36	494.45	494.60	498.53	498.01	498.07	497.06	496.36
22	494.49	494.88	495.07	499.86	494.03	494.44	495.52	498.53	497.95	498.09	497.02	496.04
23	494.53	494.71	494.65	498.32	494.14	494.60	496.71	498.55	497.93	498.00	497.07	495.91
24	494.57	494.52	494.67	496.66	494.37	494.92	497.17	498.54	497.90	497.84	497.05	495.82
25	494.61	495.11	494.73	495.63	494.57	495.24	497.36	498.52	497.89	497.66	497.00	495.71
26	494.61	497.03	494.76	494.53	494.67	495.18	497.44	498.51	497.89	497.44	496.99	495.71
27	494.59	497.37	494.77	494.51	494.77	495.18	497.38	498.49	497.87	497.40	496.99	495.66
28	494.37	497.22	494.65	494.50	494.81	495.34	497.31	498.45	497.87	497.39	496.98	495.67
29	494.62	496.78	494.56	494.48	---	495.34	497.17	498.41	497.85	497.39	496.96	495.54
30	494.68	497.00	494.49	494.39	---	495.13	497.57	498.36	497.83	497.31	496.95	495.40
31	494.54	---	494.51	494.26	---	494.84	---	498.29	---	497.23	496.90	---
MEAN	494.56	495.84	495.52	499.19	494.75	494.71	495.42	498.48	498.11	497.81	497.11	496.49
MAX	495.01	499.80	499.95	508.52	495.77	495.34	497.57	498.69	498.38	498.28	497.46	497.09
MIN	494.12	494.34	494.16	494.26	494.03	494.44	494.42	497.83	497.83	497.23	496.90	495.40
(-)	22,800	27,000	22,800	22,300	23,200	23,300	28,100	29,400	28,600	27,400	26,800	24,200
(=)	-800	+4,200	-4,200	-500	+900	+100	+4,800	+1,300	-800	-1,200	-600	-2,600

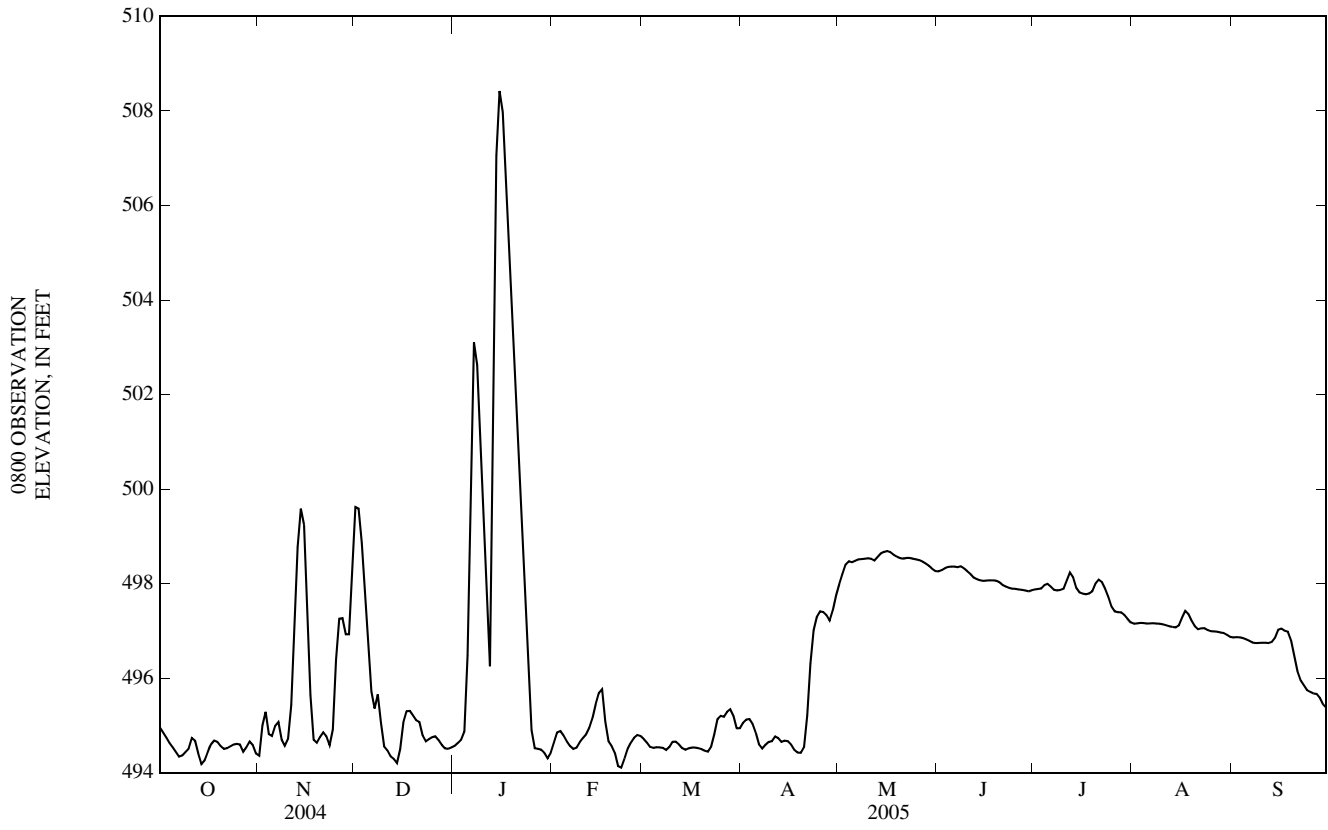
CAL YR 2004.... -3,700

WTR YR 2005.... +600

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

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

07062000 CLEARWATER LAKE NEAR PIEDMONT, MO—Continued



## 07062050 CLEARWATER LAKE TAILWATER NEAR PIEDMONT, MO

LOCATION.--Lat 37°07'54", long 90°46'15", SW 1/4 SE 1/4 NW 1/4 sec. 6, T.28 N., R.3 E., Wayne County, Hydrologic Unit 11010007, on right bank 100 ft downstream of Clearwater Dam on the Black River, 2.3 mi upstream from Brewer Bay, 4.5 mi west of Piedmont, and at mile 257.4.

DRAINAGE AREA.--898 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1992 to current year (gage height only). Gage height records prior to Oct. 1, 2004 available from the Missouri Water Science Center.

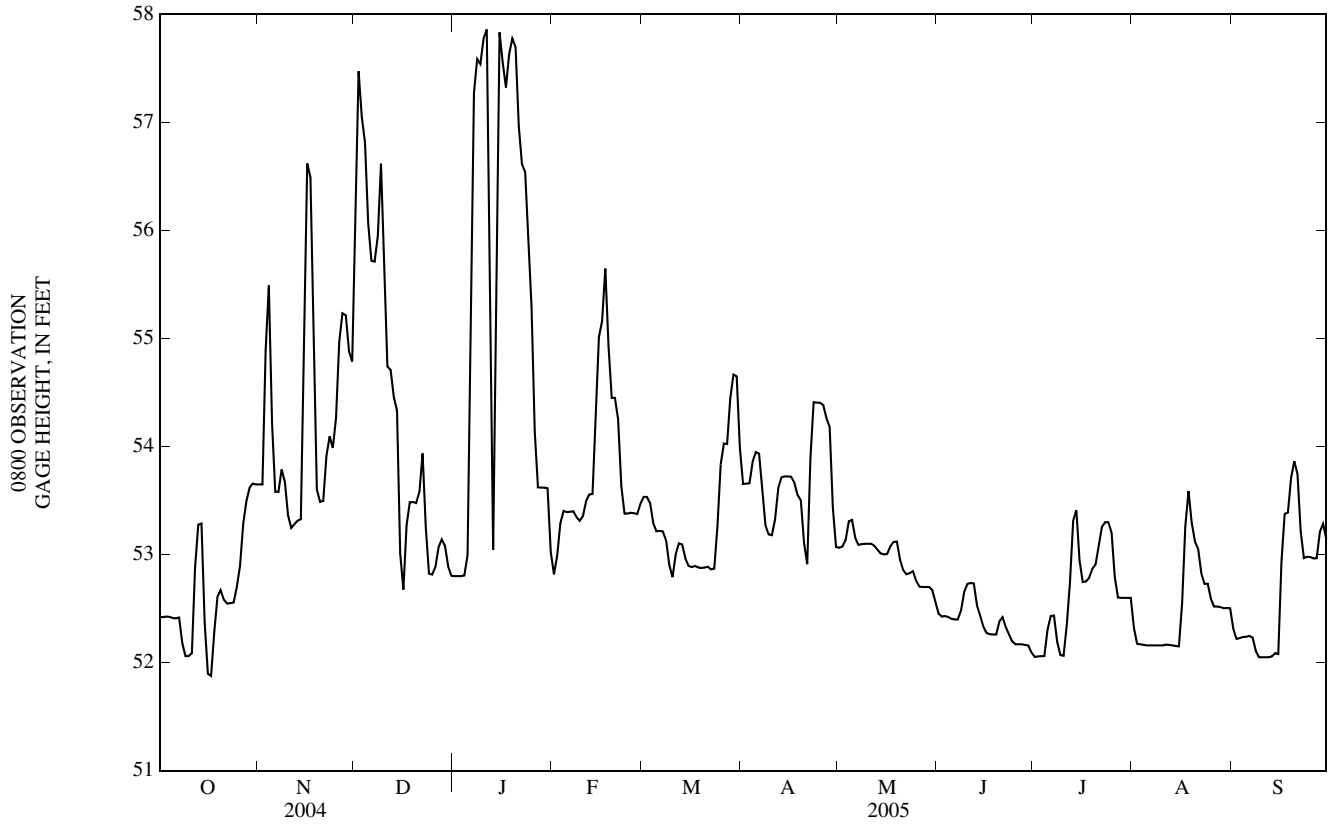
GAGE.--Water-stage recorder. Datum of gage is unknown

REMARKS.--Flow completely regulated by Clearwater Dam. U.S. Army Corps of Engineers satellite telemeter at station.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
OBSERVATION AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.43	53.65	54.82	52.80	52.73	53.52	53.66	53.07	52.52	52.06	52.60	52.50
2	52.42	53.65	57.48	52.80	52.86	53.54	53.65	53.06	52.42	52.05	52.18	52.22
3	52.42	53.65	57.47	52.80	53.05	53.53	53.66	53.08	52.43	52.06	52.17	52.22
4	52.43	55.51	56.84	52.80	53.41	53.45	53.66	53.16	52.43	52.06	52.17	52.23
5	52.42	55.48	56.80	52.81	53.40	53.21	53.96	53.38	52.42	52.06	52.16	52.24
6	52.41	53.59	55.70	53.09	53.39	53.22	53.94	53.29	52.40	52.43	52.16	52.24
7	52.41	53.58	55.73	56.62	53.40	53.22	53.93	53.09	52.40	52.43	52.16	52.25
8	52.42	53.58	55.70	57.60	53.40	53.21	53.41	53.09	52.40	52.44	52.16	52.22
9	52.06	53.89	56.07	57.58	53.32	53.09	53.20	53.10	52.52	52.07	52.16	52.05
10	52.06	53.57	56.89	57.52	53.31	52.81	53.18	53.10	52.72	52.07	52.16	52.05
11	52.06	53.26	54.76	57.90	53.38	52.78	53.18	53.10	52.73	52.06	52.16	52.05
12	52.10	53.24	54.73	57.84	53.55	53.11	53.40	53.10	52.74	52.49	52.17	52.05
13	53.27	53.30	54.70	54.73	53.56	53.10	53.72	53.07	52.73	52.87	52.16	52.05
14	53.28	53.32	54.34	52.20	53.56	53.09	53.71	53.03	52.43	53.53	52.16	52.06
15	53.29	53.33	54.33	57.84	54.70	52.90	53.73	53.00	52.44	53.35	52.15	52.10
16	51.91	56.14	52.35	57.83	55.17	52.89	53.72	53.00	52.28	52.74	52.15	52.07
17	51.89	56.86	52.84	57.41	55.16	52.88	53.72	53.01	52.27	52.75	52.75	53.37
18	51.87	56.31	53.49	57.28	55.89	52.90	53.64	53.11	52.26	52.75	53.52	53.38
19	52.49	53.83	53.48	57.81	54.45	52.87	53.51	53.12	52.26	52.80	53.62	53.39
20	52.67	53.49	53.49	57.76	54.45	52.88	53.50	53.12	52.26	52.90	53.13	53.87
21	52.67	53.49	53.47	57.67	54.45	52.88	52.91	52.87	52.44	52.91	53.12	53.86
22	52.54	53.50	53.63	56.62	54.15	52.89	52.91	52.85	52.41	53.17	53.02	53.69
23	52.55	54.12	54.09	56.61	53.38	52.85	54.39	52.80	52.29	53.30	52.73	52.98
24	52.55	54.08	52.83	56.51	53.38	52.88	54.42	52.84	52.25	53.30	52.73	52.96
25	52.56	53.94	52.82	55.56	53.38	53.46	54.40	52.85	52.17	53.30	52.73	52.99
26	52.77	54.43	52.81	55.15	53.39	54.02	54.41	52.71	52.17	53.16	52.52	52.97
27	52.96	55.24	52.92	53.63	53.38	54.03	54.37	52.70	52.17	52.61	52.52	52.96
28	53.45	55.23	53.14	53.62	53.37	54.02	54.21	52.70	52.17	52.60	52.52	52.97
29	53.52	55.21	53.14	53.62	---	54.66	54.17	52.70	52.16	52.60	52.51	53.33
30	53.67	54.72	53.05	53.62	---	54.67	53.07	52.70	52.16	52.60	52.50	53.26
31	53.65	---	52.81	53.61	---	54.64	---	52.66	---	52.60	52.51	---
MEAN	52.62	54.24	54.41	55.52	53.75	53.33	53.71	52.98	52.38	52.65	52.50	52.69
MAX	53.67	56.86	57.48	57.90	55.89	54.67	54.42	53.38	52.74	53.53	53.62	53.87
MIN	51.87	53.24	52.35	52.20	52.73	52.78	52.91	52.66	52.16	52.05	52.15	52.05

07062050 CLEARWATER LAKE TAILWATER NEAR PIEDMONT, MO—Continued



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 mi<sup>2</sup>.

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.--No estimated daily discharges. Records good. 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 ft<sup>3</sup>/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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	995	3,360	872	1,090	1,100	1,500	969	573	398	497	473
2	423	1,280	3,200	941	923	1,110	1,250	908	548	366	482	460
3	418	1,220	3,640	1,230	917	1,100	1,190	877	522	354	417	420
4	418	1,330	3,500	1,410	951	1,090	1,160	858	510	366	396	401
5	413	1,800	3,220	1,620	1,030	1,040	1,160	878	505	370	385	393
6	411	1,540	3,300	2,650	1,030	961	1,240	915	495	371	387	390
7	409	1,120	3,440	2,750	1,100	945	1,270	881	485	419	388	389
8	413	1,030	3,370	3,400	1,140	939	1,190	820	491	426	382	387
9	411	1,140	2,850	3,780	1,080	920	1,030	811	567	416	375	381
10	352	1,080	2,960	3,750	1,040	876	952	801	525	364	370	354
11	353	989	2,890	3,730	1,030	797	968	789	567	380	367	341
12	392	1,220	2,080	3,860	1,060	803	1,260	777	569	645	364	336
13	440	1,140	1,880	4,470	1,230	840	1,270	770	562	819	361	333
14	647	1,030	1,720	4,160	1,400	833	1,260	827	545	684	363	349
15	716	988	1,580	3,100	1,510	808	1,230	911	487	786	388	395
16	645	1,390	1,350	3,940	1,780	769	1,200	816	469	777	391	424
17	419	2,250	957	4,050	1,830	760	1,180	784	447	653	396	439
18	365	2,650	948	3,970	2,050	751	1,160	776	434	616	462	634
19	348	2,290	1,080	3,920	1,940	745	1,110	786	429	620	663	706
20	430	1,440	1,070	3,910	1,600	737	1,050	798	420	648	711	743
21	493	1,180	1,060	3,850	1,680	729	1,040	776	425	634	659	829
22	503	1,110	1,110	3,580	1,680	775	931	726	449	638	744	849
23	516	1,190	1,190	3,090	1,430	877	1,090	700	442	683	670	794
24	518	1,370	1,110	2,930	1,210	852	1,350	680	415	707	575	653
25	500	1,440	891	2,620	1,160	892	1,380	670	406	707	549	697
26	506	1,400	818	2,290	1,130	1,080	1,450	657	391	702	547	735
27	566	1,640	795	1,820	1,110	1,300	1,480	628	382	658	596	652
28	666	2,010	812	1,380	1,100	1,630	1,420	612	377	555	524	630
29	832	2,030	899	1,300	---	1,570	1,370	603	377	523	497	647
30	900	2,840	1,060	1,260	---	1,660	1,220	596	380	510	497	708
31	961	---	991	1,210	---	1,780	---	589	---	504	482	---
MEAN	510	1,471	1,907	2,801	1,294	1,002	1,212	774	473	558	480	531
MAX	961	2,840	3,640	4,470	2,050	1,780	1,500	969	573	819	744	849
MIN	348	988	795	872	917	729	931	589	377	354	361	333
IN.	0.47	1.32	1.77	2.59	1.08	0.93	1.09	0.72	0.42	0.52	0.44	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005<sup>a</sup>, BY WATER YEAR (WY)

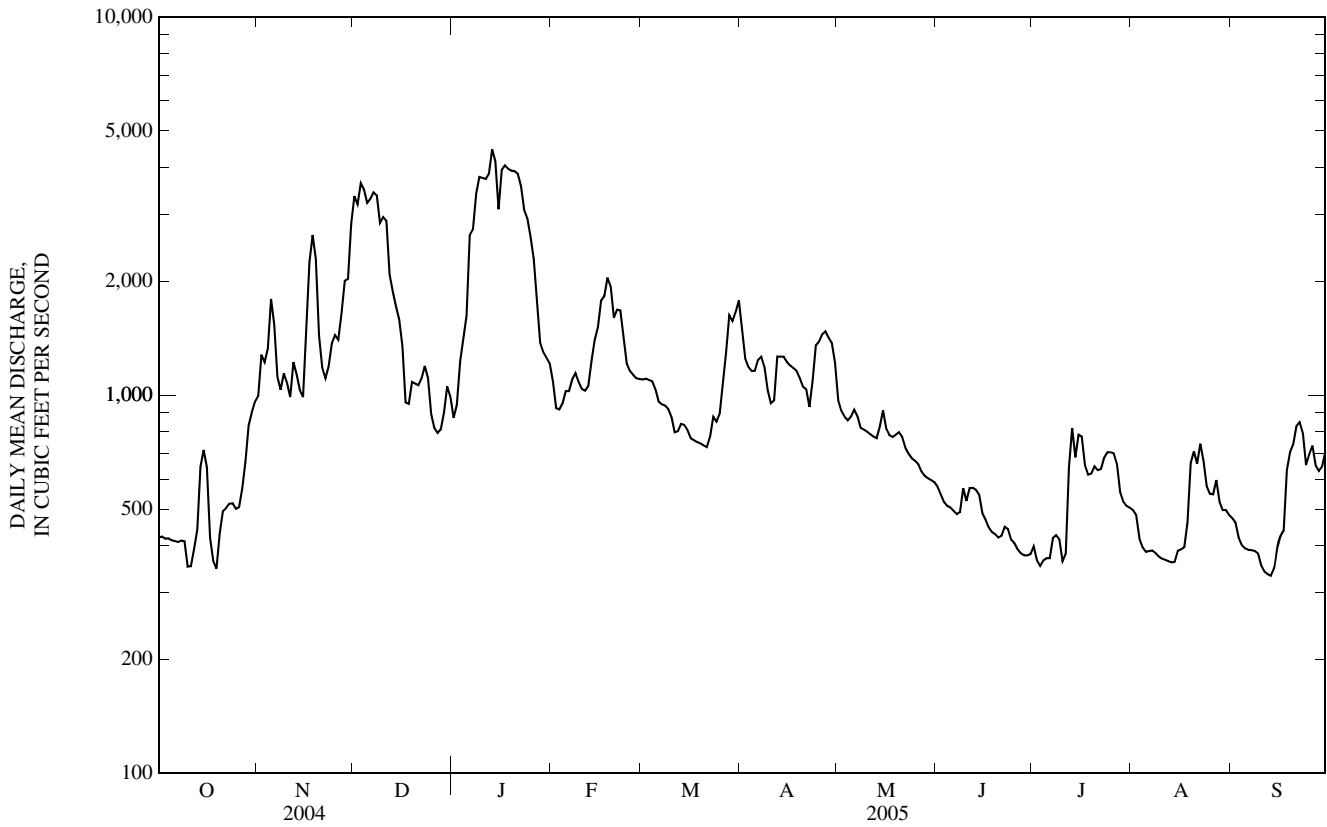
MEAN	654	998	1,538	1,669	1,736	2,107	2,170	1,938	1,299	890	679	640
MAX	1,913	2,962	5,501	3,890	4,938	4,485	4,873	4,407	4,030	3,673	3,232	2,071
(WY)	(1983)	(1973)	(1983)	(1950)	(1949)	(1975)	(1973)	(2002)	(2002)	(2002)	(1957)	(1985)
MIN	259	315	335	309	376	564	676	375	434	321	288	268
(WY)	(1957)	(1954)	(1954)	(1956)	(1963)	(1981)	(2000)	(2001)	(2001)	(1954)	(1954)	(1954)

07063000 BLACK RIVER AT POPLAR BLUFF, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005 <sup>a</sup>	
ANNUAL MEAN	1,277		1,085		1,358	
HIGHEST ANNUAL MEAN					2,858	1985
LOWEST ANNUAL MEAN					564	1954
HIGHEST DAILY MEAN	5,370	Apr 25	4,470	Jan 13	41,200	Dec 4, 1982
LOWEST DAILY MEAN	348	Oct 19	333	Sep 13	186	Sep 25, 1966
ANNUAL SEVEN-DAY MINIMUM	392	Oct 6	354	Sep 8	245	Sep 21, 1966
MAXIMUM PEAK FLOW	---		5,010	Jan 13	65,600	Dec 4, 1982
MAXIMUM PEAK STAGE	---		12.45	Jan 13	21.68 <sup>b</sup>	Dec 4, 1982
INSTANTANEOUS LOW FLOW	---		331	Oct 19, Sep 13, 14	180	Sep 25, 1966
ANNUAL RUNOFF (INCHES)	13.96		11.83		14.82	
10 PERCENT EXCEEDS	2,910		2,150		3,290	
50 PERCENT EXCEEDS	990		820		834	
90 PERCENT EXCEEDS	457		391		386	

<sup>a</sup> Post-regulation period.

<sup>b</sup> Former datum.



07064533 CURRENT RIVER ABOVE AKERS, MO

LOCATION.--Lat 37°22'32", long 91°33'10", 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.

DRAINAGE AREA.--295 mi<sup>2</sup>.

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.

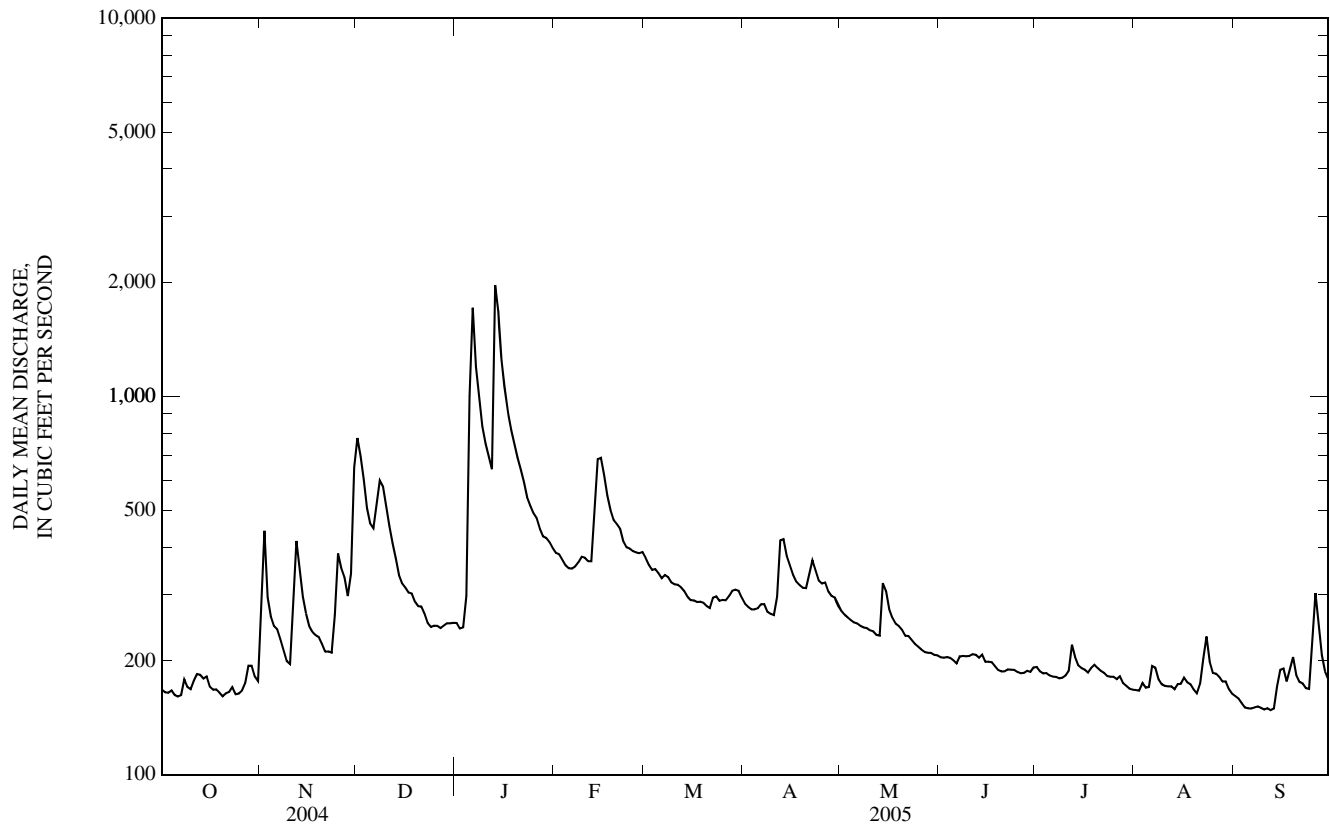
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	262	776	252	386	374	283	271	204	193	167	161
2	165	441	695	243	382	359	278	265	204	188	167	159
3	165	294	602	245	370	348	274	260	205	185	175	155
4	167	262	507	297	358	350	274	256	204	186	170	150
5	163	247	462	1,000	351	341	275	253	201	183	171	150
6	161	242	448	1,720	351	331	282	251	197	182	194	150
7	162	228	517	1,200	356	337	283	247	205	181	192	151
8	179	213	600	997	365	333	270	245	206	180	179	152
9	170	200	578	833	377	323	266	244	206	180	173	150
10	168	196	513	751	375	319	264	241	206	183	172	149
11	177	278	454	693	367	318	295	239	208	188	171	150
12	185	415	409	642	367	313	417	234	207	221	171	148
13	184	349	373	1,970	515	306	420	233	204	205	168	149
14	180	296	337	1,670	682	296	379	321	208	195	174	171
15	182	267	320	1,240	688	289	358	306	199	191	174	189
16	171	247	312	1,050	620	289	338	274	199	190	180	191
17	168	238	303	908	547	286	324	260	198	186	175	176
18	168	234	301	817	501	287	318	251	194	192	173	190
19	165	231	287	751	471	285	312	247	189	195	168	205
20	161	222	279	689	460	279	311	242	187	191	164	183
21	164	211	279	642	447	276	338	233	188	188	174	176
22	165	212	266	594	414	294	369	233	190	186	203	174
23	170	210	251	542	399	296	346	227	189	182	232	169
24	163	264	246	514	396	288	326	222	189	182	199	169
25	164	384	248	491	390	290	320	218	187	181	186	226
26	167	352	248	477	387	289	322	214	185	179	185	302
27	175	333	244	447	385	297	305	211	186	182	181	248
28	194	297	248	427	388	306	297	210	188	175	176	207
29	194	340	251	422	---	308	294	210	187	172	176	187
30	182	650	251	412	---	306	282	207	192	169	168	179
31	177	---	252	397	---	293	---	207	---	168	164	---
MEAN	172	287	382	753	432	310	314	243	197	186	178	177
MAX	194	650	776	1,970	688	374	420	321	208	221	232	302
MIN	161	196	244	243	351	276	264	207	185	168	164	148
IN.	0.67	1.09	1.50	2.94	1.53	1.21	1.19	0.95	0.75	0.73	0.70	0.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	167	247	310	381	348	466	488	820	299	218	195	177
MAX	205	360	382	753	432	760	783	2,221	478	288	251	218
(WY)	(2003)	(2004)	(2005)	(2005)	(2005)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)
MIN	136	142	215	196	272	310	314	243	197	186	166	138
(WY)	(2002)	(2002)	(2003)	(2002)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2001)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL MEAN	309	302	344
HIGHEST ANNUAL MEAN			518
LOWEST ANNUAL MEAN			247
HIGHEST DAILY MEAN	2,100	Apr 25	1,970
LOWEST DAILY MEAN	155	Sep 22	148
ANNUAL SEVEN-DAY MINIMUM	159	Sep 20	150
MAXIMUM PEAK FLOW	---		2,960
MAXIMUM PEAK STAGE	---		4.95
INSTANTANEOUS LOW FLOW	---		143
ANNUAL RUNOFF (INCHES)	14.27		13.91
10 PERCENT EXCEEDS	484		483
50 PERCENT EXCEEDS	262		245
90 PERCENT EXCEEDS	173		168





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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	870	758	73	100	167	167	78	40	34	22	25
2	29	813	420	73	102	155	154	74	40	34	22	24
3	28	321	293	80	111	147	143	71	39	32	22	22
4	28	314	228	379	115	147	136	68	39	29	21	22
5	28	227	193	2,050	112	149	130	67	37	29	25	22
6	28	173	221	2,010	111	141	139	67	36	27	24	21
7	29	142	627	683	148	140	152	66	36	26	23	21
8	37	117	465	434	244	134	150	65	38	25	23	21
9	57	102	325	319	250	128	142	64	38	25	22	21
10	48	92	253	260	220	126	138	63	36	24	21	22
11	56	276	203	226	192	122	375	61	35	25	27	20
12	110	471	176	205	177	119	1,200	59	39	39	23	19
13	83	263	148	3,170	635	115	496	56	37	40	21	19
14	68	187	131	1,270	729	109	326	71	41	32	21	e24
15	71	149	118	605	438	105	248	74	37	30	22	e40
16	67	128	110	409	330	103	204	64	35	28	22	e110
17	59	113	104	310	268	102	177	60	34	27	24	e82
18	53	105	101	254	233	100	162	58	33	27	31	e70
19	49	103	95	229	208	99	148	56	31	40	27	90
20	46	98	90	207	193	97	134	56	30	36	25	67
21	44	90	89	189	199	95	125	54	30	31	27	49
22	43	85	85	171	188	128	118	52	29	28	61	42
23	70	83	80	147	177	238	108	51	29	28	50	37
24	60	215	77	139	189	211	99	49	28	27	35	34
25	52	381	76	136	190	190	93	47	27	26	31	70
26	49	252	74	132	186	171	99	46	27	27	29	220
27	82	202	73	120	180	203	91	45	27	27	35	115
28	222	173	72	112	183	263	89	44	28	29	31	79
29	186	297	75	112	---	238	89	43	27	26	28	138
30	139	1,240	75	110	---	216	84	42	27	24	26	116
31	116	---	74	105	---	189	---	41	---	22	25	---
MEAN	66.7	269	191	475	229	150	197	58.5	33.7	29.2	27.3	55.4
MAX	222	1,240	758	3,170	729	263	1,200	78	41	40	61	220
MIN	28	83	72	73	100	95	84	41	27	22	21	19
IN.	0.42	1.63	1.19	2.96	1.29	0.93	1.19	0.36	0.20	0.18	0.17	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	46.9	224	212	225	192	311	381	411	86.4	91.3	55.9	75.6
MAX	67.6	566	385	475	229	551	544	939	133	184	105	180
(WY)	(2004)	(2004)	(2004)	(2005)	(2005)	(2002)	(2004)	(2002)	(2003)	(2002)	(2003)	(2003)
MIN	22.9	26.5	82.3	89.5	168	150	197	58.5	33.7	29.2	27.3	29.7
(WY)	(2002)	(2002)	(2003)	(2003)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

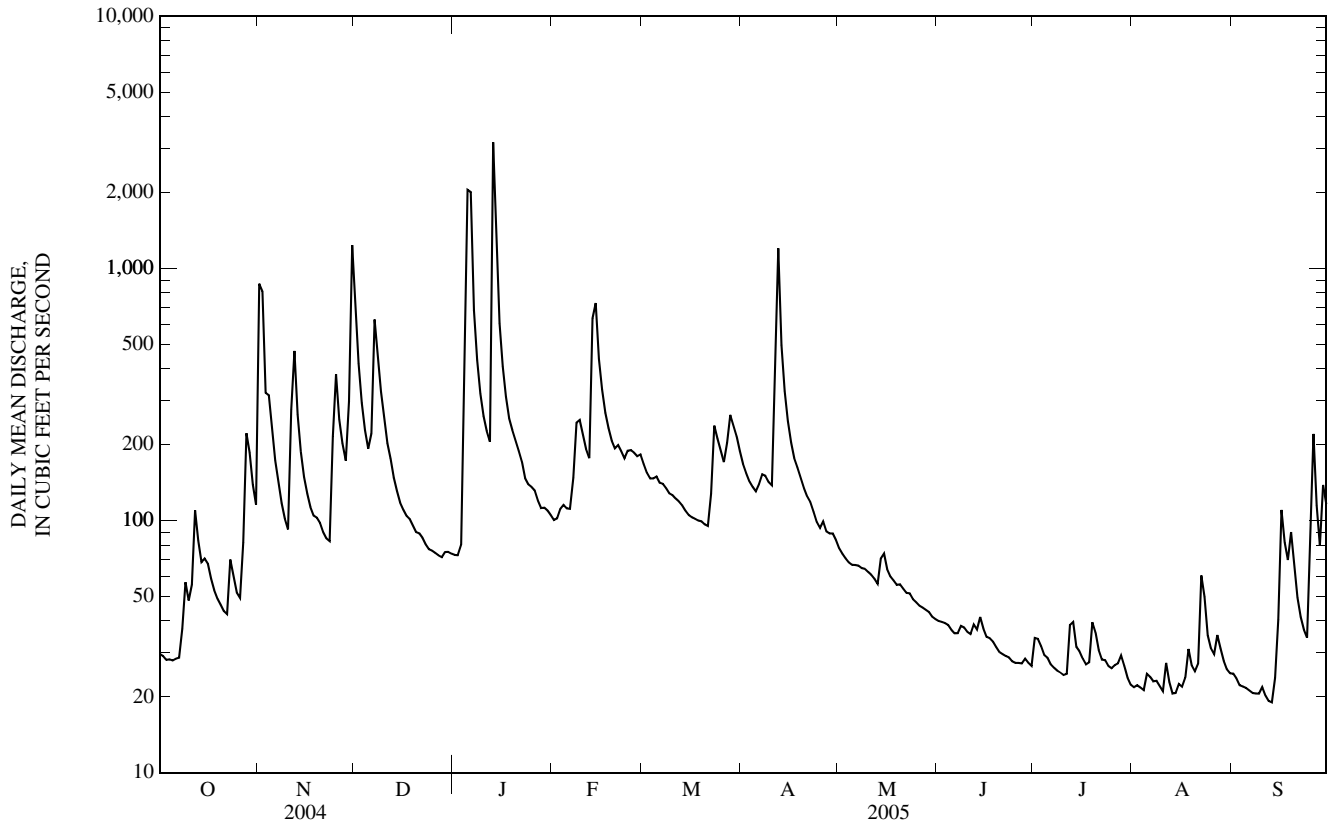
FOR 2005 WATER YEAR

WATER YEARS 2000 - 2005

ANNUAL MEAN	206	148	193
HIGHEST ANNUAL MEAN			247
LOWEST ANNUAL MEAN			135
HIGHEST DAILY MEAN	7,560	Apr 24	9,400
LOWEST DAILY MEAN	26	Sep 20-23	15
ANNUAL SEVEN-DAY MINIMUM	26	Sep 18	17
MAXIMUM PEAK FLOW	---	5,850	43,600
MAXIMUM PEAK STAGE	---	10.28	27.68
INSTANTANEOUS LOW FLOW	---	19	15
ANNUAL RUNOFF (INCHES)	15.15	10.85	14.15
10 PERCENT EXCEEDS	316	263	334
50 PERCENT EXCEEDS	112	82	80
90 PERCENT EXCEEDS	34	25	28

e Estimated

07065200 JACKS FORK NEAR MOUNTAIN VIEW, MO—Continued



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

LOCATION.--Lat 37°08'57", long 91°26'59", in NE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 05...	1330	Environmental	45	9.8	105	8.0	353	18.2	<.10	<.04	.06	<.008
JUN 14...	0845	Environmental	75	--e	--e	7.7	350	23.9	E.07n	<.04	.14	<.008
JUL 05...	1315	Environmental	59	8.3	108	7.9	336	27.7	E.07n	<.04	.10	<.008
AUG 09...	1245	Environmental	44	8.3	110	8.1	341	28.2	E.06n	<.04	.07	<.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)
OCT 05...	<.02	<.004	5k	12k
JUN 14...	<.02	E.003n	E23k	76
JUL 05...	<.02	<.004	E8k	E16k
AUG 09...	<.02	<.004	E46k	88

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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/available

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 side of pier on State Highway 106 bridge, 0.5 mi upstream from Alley Spring Branch, and 5.5 mi west of Eminence.

DRAINAGE AREA.--298 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	164	1,220	98	163	216	301	132	78	80	43	44
2	48	1,120	756	98	159	199	281	124	77	69	41	43
3	47	441	531	104	159	189	264	120	77	66	41	42
4	46	318	420	129	162	186	254	117	76	62	40	40
5	45	283	362	1,170	163	184	249	115	74	59	40	38
6	45	220	339	2,650	162	182	256	113	73	56	55	37
7	45	184	486	995	171	178	266	112	72	54	54	37
8	58	158	630	593	228	178	273	112	74	53	45	36
9	70	136	430	432	288	169	267	112	75	51	44	35
10	77	121	339	355	276	165	260	111	83	50	41	34
11	90	145	276	310	252	161	246	109	80	52	40	35
12	108	450	236	284	233	158	924	106	75	74	43	34
13	129	344	210	2,450	341	156	637	102	74	81	42	34
14	115	244	184	2,480	845	150	411	114	74	74	40	42
15	108	197	164	908	560	145	317	117	74	66	40	59
16	103	169	153	594	416	142	269	114	72	60	42	92
17	96	151	145	445	331	139	238	107	70	57	43	113
18	89	138	138	368	287	137	219	103	69	54	47	92
19	82	135	133	330	258	136	206	100	66	69	49	80
20	76	128	125	306	239	135	195	98	63	73	49	95
21	73	122	122	286	238	132	188	96	61	68	52	83
22	70	113	119	263	233	146	180	96	59	60	80	69
23	109	108	113	238	221	223	172	94	59	56	88	61
24	122	131	106	220	220	282	160	92	58	53	100	55
25	104	394	102	214	224	275	150	90	57	51	70	82
26	90	331	99	211	224	269	153	88	55	49	60	151
27	97	262	97	198	221	288	150	86	57	51	64	177
28	230	224	95	186	221	377	144	85	63	52	66	124
29	240	243	94	181	---	388	142	83	59	52	58	102
30	201	1,170	97	177	---	364	139	82	65	50	51	140
31	169	---	97	169	---	334	---	80	---	46	48	---
MEAN	97.7	278	272	563	268	206	264	104	69.0	59.6	52.1	70.2
MAX	240	1,170	1,220	2,650	845	388	924	132	83	81	100	177
MIN	45	108	94	98	159	132	139	80	55	46	40	34
IN.	0.38	1.04	1.05	2.18	0.94	0.80	0.99	0.40	0.26	0.23	0.20	0.26

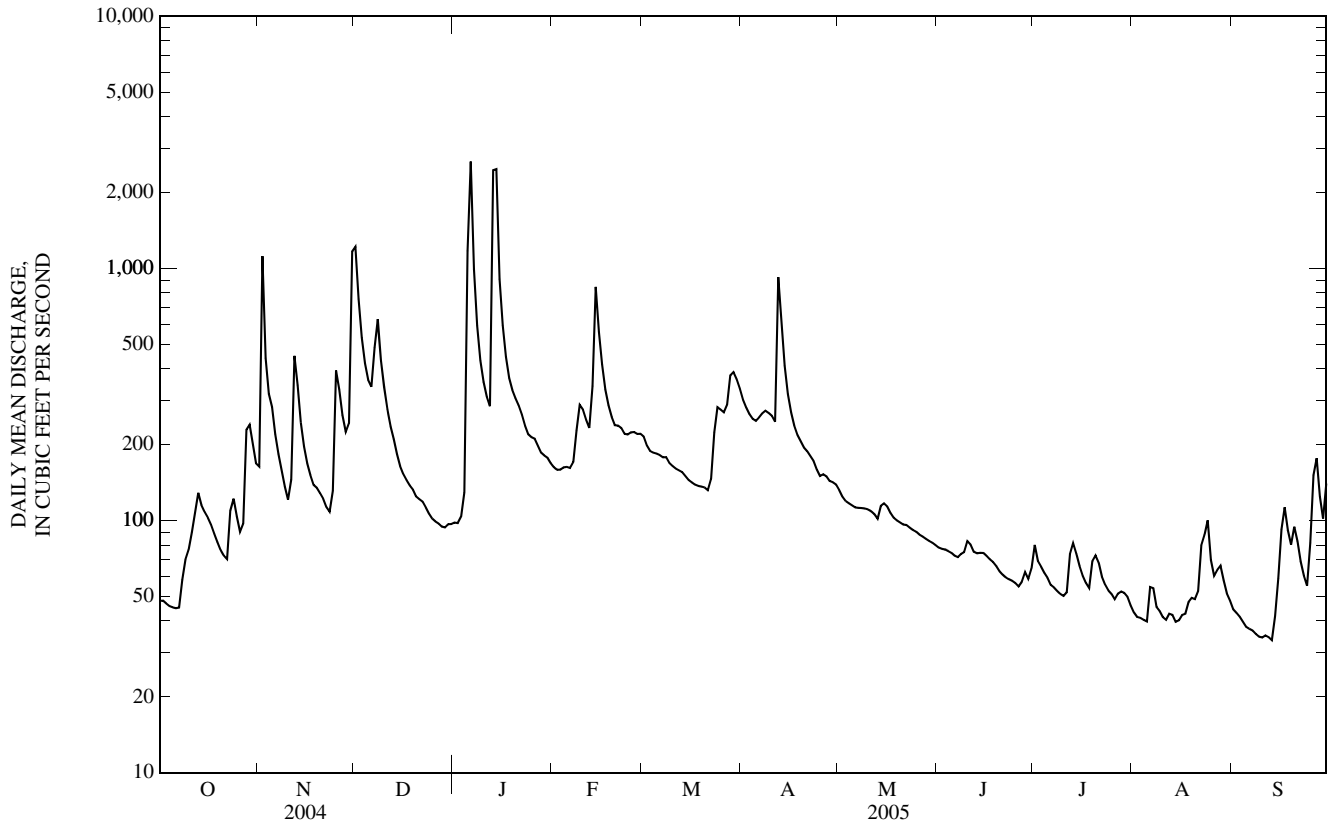
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2005, BY WATER YEAR (WY)

MEAN	107	331	217	236	384	423	485	465	167	110	85.8	166
MAX	298	1,426	478	563	976	767	1,121	1,554	381	217	145	1,007
(WY)	(1999)	(1994)	(2004)	(2005)	(1999)	(2002)	(1994)	(2002)	(1995)	(2002)	(1998)	(1993)
MIN	39.3	41.3	76.6	74.5	81.6	159	86.5	93.5	69.0	52.2	31.5	31.2
(WY)	(2002)	(2002)	(2001)	(2000)	(1996)	(2001)	(2000)	(2001)	(2005)	(2001)	(2001)	(2000)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1993 - 2005
ANNUAL MEAN	279	191	259
HIGHEST ANNUAL MEAN			469
LOWEST ANNUAL MEAN			95.9
HIGHEST DAILY MEAN	6,730	Apr 25	23,300
LOWEST DAILY MEAN	43	Sep 21-24	22
ANNUAL SEVEN-DAY MINIMUM	44	Sep 19	23
MAXIMUM PEAK FLOW	---	6,340	48,700
MAXIMUM PEAK STAGE	---	8.76	21.97
INSTANTANEOUS LOW FLOW	---	33	22
ANNUAL RUNOFF (INCHES)	12.76	8.72	11.83
10 PERCENT EXCEEDS	403	340	473
50 PERCENT EXCEEDS	164	115	122
90 PERCENT EXCEEDS	59	48	51

07065495 JACKS FORK AT ALLEY SPRING, MO—Continued



WHITE RIVER BASIN

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

WATER-QUALITY RECORDS

LOCATION.--Lat 37°09'20", 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, 5.0 mi west of Eminence.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 05...	1430	Environmental	85	9.4	94	7.7	325	14.5	<.10	<.04	.65	<.008
JUN 14...	0930	Environmental	100	--e	--e	7.2	315	14.3	<.10	<.04	.67	<.008
JUL 05...	1400	Environmental	94	10.4	105	7.3	313	14.9	<.10	<.04	.66	<.008
AUG 09...	1315	Environmental	88	10.4	106	7.8	319	15.0	<.10	<.04	.62	<.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)
OCT 05...	E.01n	.010	4k	8k
JUN 14...	<.02	.011	12k	18k
JUL 05...	<.02	.010	12k	22k
AUG 09...	<.02	.009	29k	23k

Remark codes used in this table:  
< -- Less than.  
E -- Estimated.

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/available

07066000 JACKS FORK AT EMINENCE, MO

LOCATION.--Lat 37°09'15", long 91°21'29", in SW 1/4 NW 1/4 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 mi<sup>2</sup>.

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 good except for the period July 18 to Aug. 9, which is 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

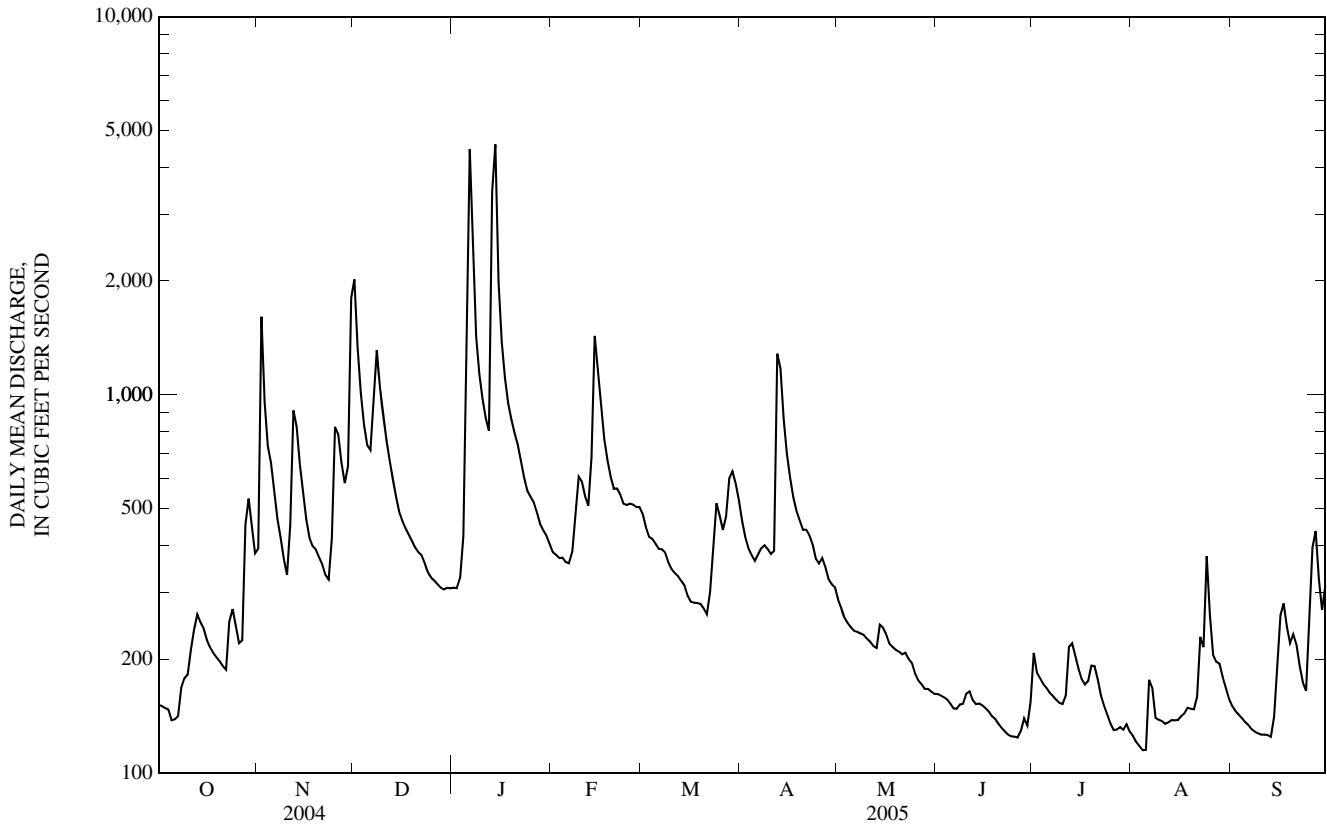
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	392	2,020	309	383	484	465	287	162	208	125	150
2	150	1,610	1,340	308	377	447	421	272	160	184	121	146
3	148	956	1,010	328	370	421	393	257	159	178	118	143
4	147	732	835	423	371	416	377	249	156	172	115	140
5	138	660	736	1,810	361	404	364	243	153	168	115	136
6	139	550	714	4,460	359	392	378	238	148	163	176	134
7	142	470	985	2,220	385	391	393	236	148	160	168	130
8	168	418	1,310	1,430	485	383	400	234	152	156	140	129
9	178	368	1,040	1,130	608	361	391	232	153	153	138	127
10	182	334	886	975	589	346	380	226	162	152	137	126
11	212	453	762	868	540	338	386	222	164	160	135	126
12	239	909	671	804	510	332	1,280	217	156	215	136	126
13	263	824	604	3,450	686	322	1,170	214	152	220	138	125
14	251	656	539	4,590	1,430	313	863	247	153	204	138	141
15	241	549	491	1,990	1,120	294	699	242	151	189	138	185
16	225	469	465	1,380	913	284	604	233	148	177	141	262
17	215	419	444	1,110	763	282	537	220	145	171	144	281
18	208	398	427	951	671	282	493	215	141	175	149	244
19	202	390	411	861	607	280	465	212	139	192	148	220
20	197	372	395	793	564	272	440	209	135	192	147	233
21	192	357	384	738	565	263	440	206	132	177	159	219
22	188	334	377	670	545	301	425	208	129	160	229	192
23	251	325	359	603	515	407	403	200	126	151	215	174
24	271	417	339	558	511	517	369	195	125	143	375	165
25	244	823	329	538	516	479	358	183	125	135	261	265
26	220	787	323	520	512	439	370	176	124	130	205	395
27	224	662	315	489	505	477	350	172	129	130	197	436
28	454	584	309	455	505	601	325	167	140	132	195	325
29	531	647	306	438	---	627	316	167	134	130	179	270
30	454	1,800	309	424	---	583	309	164	154	135	168	313
31	381	---	308	403	---	527	---	162	---	129	157	---
MEAN	232	622	637	1,162	581	396	485	216	145	166	165	202
MAX	531	1,800	2,020	4,590	1,430	627	1,280	287	164	220	375	436
MIN	138	325	306	308	359	263	309	162	124	129	115	125
IN.	0.67	1.74	1.85	3.37	1.52	1.15	1.36	0.63	0.41	0.48	0.48	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2005, BY WATER YEAR (WY)

MEAN	225	421	453	476	559	714	839	746	454	258	206	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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1922 - 2005	
ANNUAL MEAN	533		417		462	
HIGHEST ANNUAL MEAN					1,072	1985
LOWEST ANNUAL MEAN					154	1954
HIGHEST DAILY MEAN	10,200	Apr 25	4,590	Jan 14	31,800	Nov 15, 1993
LOWEST DAILY MEAN	138	Oct 5	115	Aug 4,5	67	Sep 16, 1956
ANNUAL SEVEN-DAY MINIMUM	145	Oct 1	123	Jul 30	70	Sep 16, 1956
MAXIMUM PEAK FLOW	---		7,620	Jan 14	58,500	Nov 15, 1993
MAXIMUM PEAK STAGE	---		9.10	Jan 14	17.82	Nov 15, 1993
INSTANTANEOUS LOW FLOW	---		114	Aug 4,5	64	Aug 28, 1936
ANNUAL RUNOFF (INCHES)	18.23		14.22		15.77	
10 PERCENT EXCEEDS	823		789		885	
50 PERCENT EXCEEDS	365		301		246	
90 PERCENT EXCEEDS	168		138		124	





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 2004 TO SEPTEMBER 2005

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 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 05...	0820	Environmental	135	8.3	81	7.6	338	13.7	<.10	<.04	.38	<.008
JUN 14...	1050	Environmental	156	--e	--e	7.6	337	20.0	<.10	<.04	.36	<.008
JUL 05...	1450	Environmental	164	10.3	123	7.8	328	22.8	E.06n	<.04	.32	<.008
AUG 09...	1440	Environmental	138	10.2	123	8.1	336	23.1	.14	<.04	.31	<.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)
OCT 05...	<.02	E.004n	35	34
JUN 14...	<.02	.005	210	230k
JUL 05...	<.02	.005	<2b	10k
AUG 09...	<.02	.005	18k	9k

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

Value qualifier codes used in this table:

- b -- Value extrapolated at low end
- 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/available

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 SW 1/4 sec.25, T.29 N., R4 W., Shannon County, Hydrologic Unit 11010008, at Jacks Fork Campground, 0.9 mi downstream of Eminence.

DRAINAGE AREA.--406 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 05...	0915	Environmental	135	8.3	82	7.6	339	13.9	<.10	<.04	.38	<.008
JUN 14...	1120	Environmental	156	--e	--e	7.7	340	20.7	E.08n	<.04	.37	<.008
JUL 06...	0815	Environmental	164	7.2	80	7.5	329	19.7	E.06n	<.04	.37	<.008
AUG 10...	0800	Environmental	138	7.0	79	--e	342	20.6	.11	<.04	.35	<.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)
OCT 05...	<.02	.006	27k	28k
JUN 14...	<.02	.008	18k	78
JUL 06...	<.02	.005	18k	56
AUG 10...	<.02	.006	84	100

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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/available

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 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 unfiltered 25 degC μS/cm (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)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT													
05...	0945	Environmental	151	8.4	83	8.0	345	14.3	E.05n	<.04	.35	<.008	<.02
05...	1615	Environmental	151	10.7	112	7.9	343	16.7	--	--	--	--	--
JUN													
15...	1030	Environmental	179	--e	--e	7.8	343	20.3	E.09n	<.04	.37	<.008	<.02
15...	1045	Blank	--	--	--	--	--	--	<.10	<.04	<.06	<.008	<.02
JUL													
06...	1245	Environmental	164	9.3	108	7.8	339	21.9	E.09n	<.04	.35	<.008	<.02
AUG													
10...	1345	Environmental	144	9.2	112	8.0	326	23.8	E.10n	<.04	.33	<.008	<.02

Date	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)
OCT			
05...	.004	42	58
05...	--	20k	64
JUN			
15...	.011	150	290k
15...	<.004	--	--
JUL			
06...	.008	8k	29k
AUG			
10...	.012	150	450

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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/available



07066110 JACKS FORK ABOVE TWO RIVERS, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	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 22...	<.08	4.98	1.4	<.01	<.4	<.6	E1n
JAN 25...	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--
MAY 19...	<.08	<.06	3.4	<.01	<.4	.6	<2
JUL 18...	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--

## Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

## 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:

u -- Unable to determine-matrix interference

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 1/4 NE 1/4 NE 1/4 sec.19, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, 3.1 mi upstream from Two Rivers.

DRAINAGE AREA.--412 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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												
05...	1030	Environmental	151	8.8	88	8.2	347	14.6	<.10	<.04	.31	<.008
05...	1031	Replicate	--	--	--	--	--	--	<.10	<.04	.30	<.008
05...	1645	Environmental	151	11.4	120	8.4	343	17.2	--	--	--	--
JUN												
15...	1130	Environmental	179	--e	--e	8.1	346	21.6	E.08n	<.04	.34	<.008
JUL												
06...	1325	Environmental	164	9.8	120	8.0	340	24.5	E.09n	<.04	.30	<.008
AUG												
10...	1545	Environmental	144	9.9	124	8.1	327	25.2	.11	<.04	.29	<.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)
OCT				
05...	<.02	E.004n	19k	70k
05...	<.02	E.004n	--	--
05...	--	--	12k	28k
JUN				
15...	<.02	.007	6k	54
JUL				
06...	<.02	.007	2k	11k
AUG				
10...	<.02	.008	86	200k

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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/available

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

LOCATION.--Lat 37°10'19", long 91°18'01", in SW 1/4 NE 1/4 NW 1/4 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 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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												
05...	1020	Blank	--	--	--	--	--	--	<.10	<.04	<.06	<.008
05...	1035	Environmental	3.6	7.6	75	7.9	526	13.9	<.10	<.04	.14	<.008
JUN												
14...	1410	Environmental	4.8	--e	--e	7.8	520	25.0	E.08n	<.04	.20	<.008
JUL												
06...	0845	Environmental	3.6	6.6	76	7.7	504	21.5	E.07n	<.04	.18	<.008
AUG												
10...	0850	Environmental	3.3	6.3	75	7.8	511	23.2	E.07n	<.04	.16	<.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 0.7u MF col/ 100 mL (31625)
OCT				
05...	<.02	<.004	--	--
05...	<.02	.009	63	84
JUN				
14...	<.02	.009	58	130k
JUL				
06...	<.02	.007	27k	29k
AUG				
10...	<.02	.006	92	130

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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/available

## 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 mi<sup>2</sup>.

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 05...	1115	Environmental	146	8.3	84	7.8	344	14.9	E.06n	<.04	.30	<.008
JUN 14...	1530	Environmental	186	--e	--e	8.0	345	24.5	.10	<.04	.33	<.008
JUL 06...	0930	Environmental	120	7.5	88	7.7	338	21.9	E.08n	<.04	.31	<.008
AUG 10...	0920	Environmental	149	6.8	81	7.9	350	23.1	E.10n	<.04	.30	<.008
AUG 10...	1000	Blank	--	--	--	--	--	--	E.06n	<.04	<.06	<.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 0.7µ MF col/ 100 mL (31625)
OCT 05...	<.02	.006	16k	28k
JUN 14...	<.02	.008	5k	32k
JUL 06...	<.02	.007	6k	29k
AUG 10...	<.02	.007	120	240
AUG 10...	<.02	<.004	--	--

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

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/available



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 mi<sup>2</sup>.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 05...	1350	Environmental	146	10.2	104	7.8	356	15.8	<.10	<.04	.29	<.008
JUN 14...	1715	Environmental	186	--e	--e	8.0	350	24.7	E.10n	<.04	.31	<.008
JUL 06...	1050	Environmental	120	8.1	95	7.7	341	22.4	E.08n	<.04	.30	<.008
AUG 10...	1050	Environmental	149	7.5	90	7.8	354	23.5	E.09n	<.04	.28	<.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 0.7µMF col/100 mL (31625)
OCT 05...	<.02	E.004n	4k	14k
JUN 14...	<.02	.007	E4k	E25k
JUL 06...	<.02	.007	E5k	E12k
AUG 10...	<.02	.007	46	130

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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/available

## 07067000 CURRENT RIVER AT VAN BUREN, MO

LOCATION.--Lat 36°59'29", long 91°00'49", in NE ¼ NW ¼ 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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713	1,190	6,570	1,190	1,670	1,800	1,780	1,500	962	911	752	784
2	726	2,290	5,620	1,210	1,640	1,730	1,650	1,430	956	925	745	770
3	718	3,480	4,210	1,270	1,620	1,660	1,560	1,380	956	893	737	763
4	712	2,380	3,300	1,420	1,570	1,610	1,500	1,340	953	894	730	756
5	713	2,010	2,840	2,660	1,520	1,570	1,450	1,310	947	894	728	744
6	712	1,770	2,750	9,430	1,500	1,510	1,460	1,270	931	880	758	737
7	713	1,560	3,100	9,300	1,590	1,490	1,490	1,250	922	864	926	730
8	773	1,390	4,130	6,370	1,690	1,460	1,470	1,230	945	856	854	728
9	886	1,270	3,900	4,930	1,880	1,430	1,430	1,230	971	850	792	722
10	837	1,180	3,330	3,920	1,960	1,380	1,400	1,220	957	836	767	721
11	845	1,600	2,890	3,380	1,890	1,340	1,420	1,200	1,000	852	755	715
12	1,020	2,770	2,570	3,050	1,830	1,330	1,690	1,160	991	1,050	744	711
13	974	3,080	2,330	8,860	2,260	1,300	3,140	1,130	972	1,200	740	710
14	969	2,430	2,120	14,700	3,960	1,270	2,710	1,400	947	983	746	749
15	988	2,010	1,940	8,990	4,450	1,220	2,340	1,430	934	905	781	882
16	958	1,750	1,820	6,760	3,730	1,180	2,120	1,380	917	862	804	1,050
17	902	1,570	1,730	5,580	3,150	1,160	1,970	1,270	914	841	792	980
18	869	1,470	1,650	4,560	2,760	1,140	1,860	1,210	908	830	796	950
19	849	1,560	1,580	3,900	2,490	1,130	1,790	1,180	898	855	778	926
20	834	1,530	1,520	3,510	2,320	1,120	1,740	1,150	884	860	772	923
21	823	1,440	1,470	3,210	2,290	1,090	1,940	1,110	874	850	789	895
22	811	1,350	1,450	2,940	2,200	1,250	2,140	1,110	867	825	993	852
23	920	1,290	1,390	2,660	2,070	1,530	2,110	1,110	861	814	989	815
24	1,080	1,670	1,330	2,450	2,010	1,630	1,940	1,080	853	797	1,040	792
25	1,020	2,800	1,280	2,320	1,960	1,650	1,800	1,040	853	786	1,050	926
26	945	2,970	1,260	2,230	1,920	1,580	1,820	1,010	850	777	986	1,320
27	921	2,560	1,240	2,110	1,870	1,930	1,750	991	857	778	918	1,360
28	972	2,250	1,210	1,980	1,840	2,140	1,670	977	862	792	885	1,200
29	1,300	2,200	1,200	1,900	---	2,170	1,620	965	854	777	855	1,040
30	1,360	4,470	1,200	1,830	---	2,080	1,570	964	856	767	829	949
31	1,220	---	1,190	1,750	---	1,930	---	972	---	759	803	---
MEAN	906	2,043	2,391	4,205	2,201	1,510	1,811	1,194	915	863	827	873
MAX	1,360	4,470	6,570	14,700	4,450	2,170	3,140	1,500	1,000	1,200	1,050	1,360
MIN	712	1,180	1,190	1,190	1,500	1,090	1,400	964	850	759	728	710
IN.	0.63	1.37	1.65	2.91	1.38	1.04	1.21	0.83	0.61	0.60	0.57	0.58

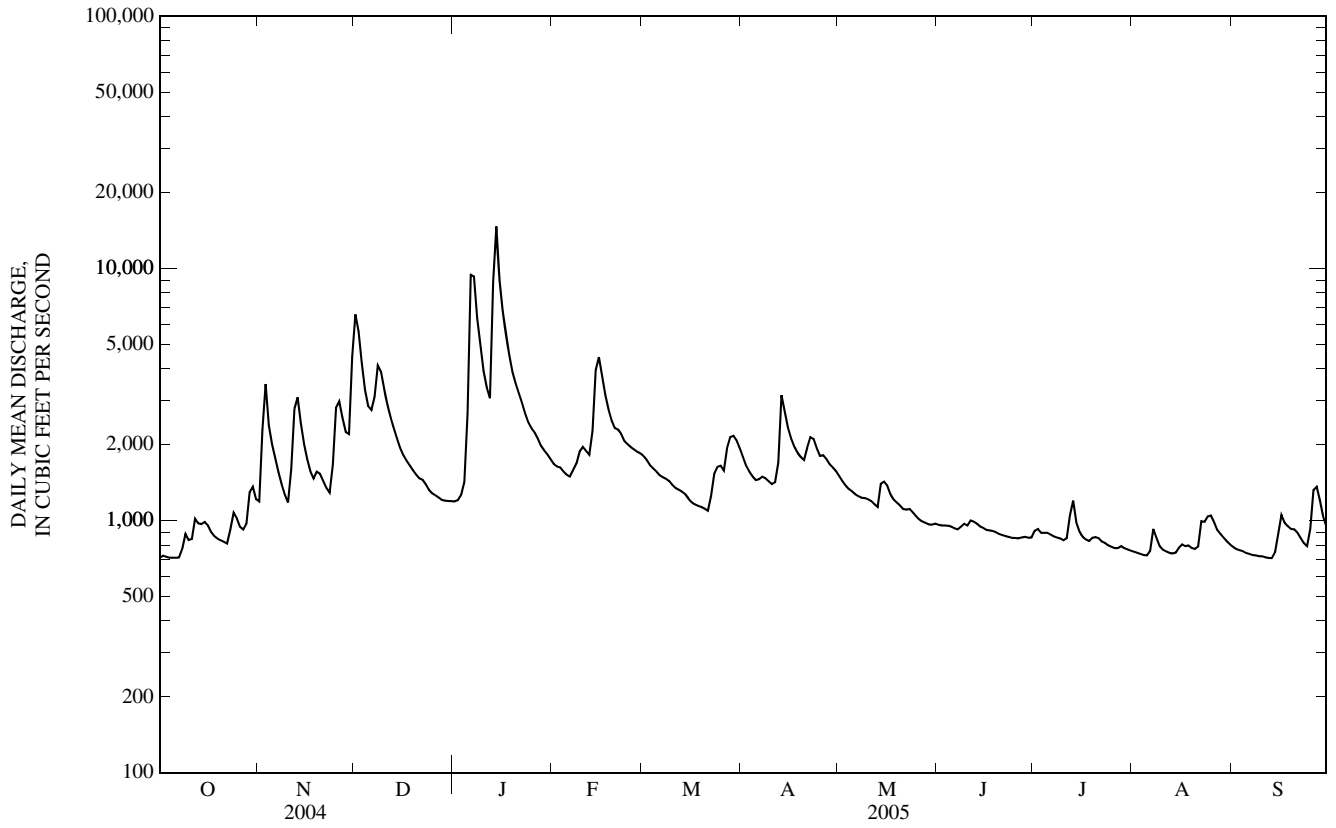
STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF RECORD, BY WATER YEAR (WY)

MEAN	1,082	1,724	1,911	2,014	2,251	2,813	3,382	3,091	2,085	1,310	1,083	1,023
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)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	1,934	1,643	1,977
HIGHEST ANNUAL MEAN			4,811
LOWEST ANNUAL MEAN			799
HIGHEST DAILY MEAN	22,700	Apr 25	14,700
LOWEST DAILY MEAN	704	Sep 23	710
ANNUAL SEVEN-DAY MINIMUM	711	Sep 19	715
MAXIMUM PEAK FLOW	---		16,300
MAXIMUM PEAK STAGE	---		10.11
INSTANTANEOUS LOW FLOW	---		703
ANNUAL RUNOFF (INCHES)	15.80		13.38
10 PERCENT EXCEEDS	2,950		2,820
50 PERCENT EXCEEDS	1,550		1,230
90 PERCENT EXCEEDS	784		777

07067000 CURRENT RIVER AT VAN BUREN, MO—Continued



## 07067500 BIG SPRING NEAR VAN BUREN, MO

LOCATION.--Lat 36°57'03", long 90°59'31", in SW ¼ NE ¼ 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.

## WATER-DISCHARGE RECORDS

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.

REVISED RECORDS.--WSP 1311: 1922-23, 1928(M), 1929.

GAGE.--Water-stage recorder. 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 poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	313	e486	412	501	475	532	506	427	407	379	346
2	320	344	e491	415	497	472	526	503	428	407	377	344
3	320	421	e493	431	492	469	522	499	428	408	377	343
4	321	347	e487	456	484	466	518	493	427	406	375	343
5	321	330	468	e508	478	464	517	487	426	408	375	342
6	321	323	467	e574	475	461	518	485	426	408	374	340
7	320	318	505	e622	476	464	519	483	426	407	375	339
8	320	314	e506	e674	480	462	518	480	427	405	373	339
9	320	311	e499	e663	484	460	515	477	425	404	372	338
10	318	309	e492	e640	483	460	515	472	422	403	370	338
11	319	325	e479	626	477	458	517	470	425	406	370	336
12	321	372	465	593	475	459	532	467	423	415	369	337
13	319	392	445	e640	502	457	579	465	416	420	369	336
14	317	353	430	e822	e565	456	562	471	414	408	366	335
15	317	335	420	e923	e598	454	545	475	413	403	365	334
16	313	327	414	e854	e593	455	536	472	412	400	364	335
17	310	322	409	e745	e555	455	530	467	411	399	363	334
18	311	321	407	e696	535	454	526	461	410	398	365	332
19	308	325	405	e670	517	453	524	456	410	396	361	331
20	309	325	404	e656	509	451	521	454	409	395	360	326
21	309	323	403	654	505	452	523	448	408	394	359	324
22	308	321	402	624	501	463	529	442	406	393	363	320
23	311	320	402	595	496	492	525	440	405	390	363	318
24	313	345	399	576	492	492	518	436	406	389	360	317
25	312	399	401	561	487	490	517	434	406	387	357	318
26	311	406	401	550	483	485	520	432	406	386	355	323
27	310	382	400	539	480	534	518	432	403	385	352	319
28	311	370	403	527	480	566	515	432	403	385	351	317
29	311	374	405	520	---	559	514	430	404	382	348	315
30	312	e480	407	514	---	552	513	428	406	381	348	310
31	310	---	410	507	---	539	---	427	---	380	347	---
MEAN	315	348	439	606	504	478	525	462	415	399	365	331
MAX	321	480	506	923	598	566	579	506	428	420	379	346
MIN	308	309	399	412	475	451	513	427	403	380	347	310

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

MEAN	344	388	415	441	462	519	573	562	484	415	377	352
MAX	599	769	1,070	828	823	836	902	944	950	772	702	525
(WY)	(1950)	(1986)	(1983)	(1937)	(1949)	(1945)	(1973)	(1957)	(1927)	(1928)	(1927)	(1927)
MIN	243	248	252	247	279	279	279	261	253	249	252	250
(WY)	(1957)	(1957)	(1956)	(1956)	(1977)	(1936)	(1936)	(1936)	(1936)	(1936)	(1936)	(1956)

## SUMMARY STATISTICS

## FOR 2004 CALENDAR YEAR

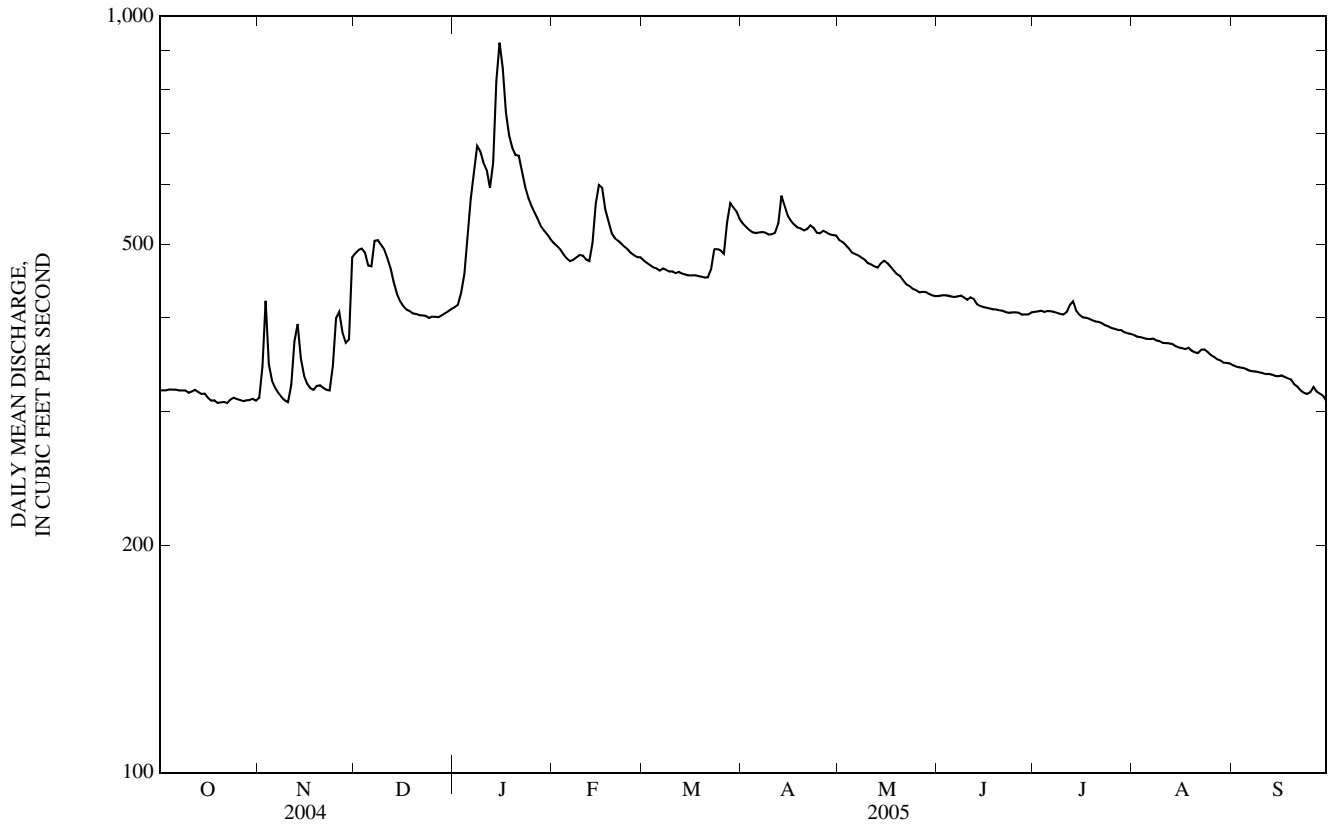
## FOR 2005 WATER YEAR

## FOR PERIOD OF RECORD

ANNUAL MEAN	447	432	445
HIGHEST ANNUAL MEAN			648
LOWEST ANNUAL MEAN			289
HIGHEST DAILY MEAN	925	Apr 26	2,000
LOWEST DAILY MEAN	308	Oct 19,22	236
ANNUAL SEVEN-DAY MINIMUM	309	Oct 17	238
10 PERCENT EXCEEDS	613	533	685
50 PERCENT EXCEEDS	424	414	395
90 PERCENT EXCEEDS	320	320	290

e Estimated

07067500 BIG SPRING NEAR VAN BUREN, MO—Continued



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 2004 TO SEPTEMBER 2005

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 $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
DEC 13...	1615	Environmental	439	8.7	86	7.1	260	14.1	--	--	--	--	
MAR 16...	1350	Environmental	453	8.7	86	7.2	315	14.1	180	36.6	21.3	.80	
MAY 18...	0850	Environmental	463	8.4	84	7.2	345	14.3	--	--	--	--	
AUG 15...	1515	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16	
15...	1520	Environmental	364	9.3	94	7.6	352	14.8	190	40.4	22.9	.70	
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd titr., mg/L as CaCO <sub>3</sub> (00419)	Bicarbonate, wat unfltrd titr., mg/L (00450)	Carbonate, wat unfltrd titr., 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)
DEC 13...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	.70
MAR 16...	1.55	169	170	207	<1	2.22	<.1	2.1	199	<10	E.05n	<.04	.48
MAY 18...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.38
AUG 15...	<.20	--	--	--	--	.33	<.1	<.2	<10	<10	<.10	.05	<.06
15...	1.61	182	182	222	<1	1.85	<.1	1.9	202	<10	<.10	<.04	.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, 100 mL (31633)	Fecal coliform, M-FC col/100 mL (31625)	Aluminum, water, fltrd, $\mu$ g/L (01106)	Aluminum, water, unfltrd recoverable, $\mu$ g/L (01105)	Arsenic, water, fltrd, $\mu$ g/L (01000)	Cadmium, water, fltrd, $\mu$ g/L (01025)	Cadmium, water, unfltrd $\mu$ g/L (01027)	Copper, water, fltrd, $\mu$ g/L (01040)	Iron, water, fltrd, $\mu$ g/L (01046)
DEC 13...	<.008	<.02	<.04	<.04	31	37	--	--	--	--	--	--	--
MAR 16...	<.008	<.02	<.04	<.04	1k	<1b	Mn	27	.3	<.04	<.04	E.3n	E5n
MAY 18...	<.008	<.02	<.04	<.04	2k	2k	--	--	--	--	--	--	--
AUG 15...	<.008	<.02	<.04	<.04	--	--	<2	<2	<.2	<.04	<.04	<.4	<6
15...	<.008	<.02	<.04	<.04	4k	3k	4	18	.2	<.04	<.04	<.4	<6

07067500 BIG SPRING NEAR VAN BUREN, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	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 13...	--	--	--	--	--	--	--
MAR 16...	E.04n	E.04n	<.6	<.01	E.4n	E.5n	<2
MAY 18...	--	--	--	--	--	--	--
AUG 15...	<.08	<.06	<.6	<.01	<.4	<.6	<2
15...	<.08	E.04n	<.6	<.01	E.2n	E.5n	<2

## Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

## Value qualifier codes used in this table:

b -- Value extrapolated at low end

k -- Counts outside acceptable range

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

## 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 mi<sup>2</sup>.

## 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.--No estimated daily discharges. 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 ft<sup>3</sup>/s, from rating curve extended above 60,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,220	1,830	6,540	1,720	2,510	2,610	2,830	2,220	1,490	1,380	1,270	1,300
2	1,220	1,940	6,960	1,780	2,460	2,560	2,650	2,140	1,490	1,390	1,260	1,280
3	1,210	3,390	5,510	2,070	2,410	2,480	2,520	2,080	1,480	1,370	1,250	1,260
4	1,210	3,190	4,470	2,620	2,360	2,410	2,430	2,030	1,470	1,400	1,240	1,240
5	1,200	2,590	3,870	3,090	2,310	2,360	2,370	1,980	1,460	1,430	1,230	1,220
6	1,200	2,340	3,620	6,720	2,270	2,310	2,360	1,940	1,450	1,350	1,230	1,210
7	1,200	2,140	3,850	12,500	2,320	2,280	2,370	1,910	1,430	1,320	1,300	1,200
8	1,230	1,970	4,450	8,840	2,380	2,250	2,350	1,880	1,450	1,300	1,460	1,200
9	1,300	1,840	4,900	6,410	2,490	2,220	2,310	1,860	1,500	1,290	1,360	1,190
10	1,360	1,750	4,380	5,150	2,640	2,160	2,270	1,850	1,460	1,280	1,290	1,190
11	1,400	1,890	3,880	4,460	2,640	2,110	2,320	1,820	1,470	1,340	1,270	1,200
12	1,450	2,530	3,470	4,030	2,570	2,080	2,440	1,790	1,490	1,730	1,250	1,190
13	1,510	3,370	3,130	5,950	2,740	2,050	3,160	1,750	1,480	1,990	1,230	1,190
14	1,510	3,150	2,870	14,400	3,600	2,020	3,630	1,840	1,450	1,800	1,240	1,250
15	1,510	2,680	2,650	15,500	4,750	1,980	3,270	1,980	1,430	1,630	1,250	1,370
16	1,490	2,370	2,480	9,090	4,490	1,930	2,990	1,980	1,410	1,560	1,330	1,460
17	1,440	2,170	2,360	6,980	4,040	1,900	2,780	1,910	1,400	1,490	1,340	1,550
18	1,430	2,050	2,260	5,700	3,660	1,870	2,640	1,830	1,390	1,470	1,320	1,510
19	1,380	2,030	2,180	5,010	3,390	1,860	2,540	1,790	1,380	1,450	1,300	1,480
20	1,350	2,070	2,100	4,580	3,200	1,840	2,450	1,770	1,370	1,460	1,280	1,440
21	1,340	2,010	2,050	4,270	3,190	1,820	2,500	1,720	1,350	1,450	1,290	1,420
22	1,330	1,940	2,030	3,970	3,120	1,950	2,720	1,690	1,350	1,430	1,440	1,390
23	1,400	1,890	1,970	3,700	2,990	2,210	2,840	1,680	1,340	1,390	1,570	1,350
24	1,470	1,900	1,900	3,480	2,880	2,370	2,680	1,660	1,330	1,360	1,550	1,300
25	1,560	2,660	1,850	3,300	2,810	2,450	2,530	1,630	1,330	1,340	1,590	1,410
26	1,500	3,350	1,800	3,180	2,760	2,410	2,540	1,600	1,320	1,320	1,580	1,590
27	1,450	3,280	1,770	3,060	2,710	2,600	2,480	1,570	1,300	1,310	1,510	1,810
28	1,450	2,960	1,740	2,910	2,670	3,140	2,420	1,560	1,310	1,320	1,440	1,820
29	1,550	2,830	1,720	2,790	---	3,180	2,360	1,540	1,300	1,320	1,410	1,660
30	1,820	3,980	1,720	2,690	---	3,170	2,310	1,520	1,310	1,290	1,370	1,520
31	1,790	---	1,720	2,600	---	3,020	---	1,510	---	1,280	1,320	---
MEAN	1,403	2,470	3,103	5,244	2,941	2,310	2,602	1,807	1,406	1,427	1,347	1,373
MAX	1,820	3,980	6,960	15,500	4,750	3,180	3,630	2,220	1,500	1,990	1,590	1,820
MIN	1,200	1,750	1,720	1,720	2,270	1,820	2,270	1,510	1,300	1,280	1,230	1,190
IN.	0.79	1.35	1.76	2.97	1.50	1.31	1.42	1.02	0.77	0.81	0.76	0.75

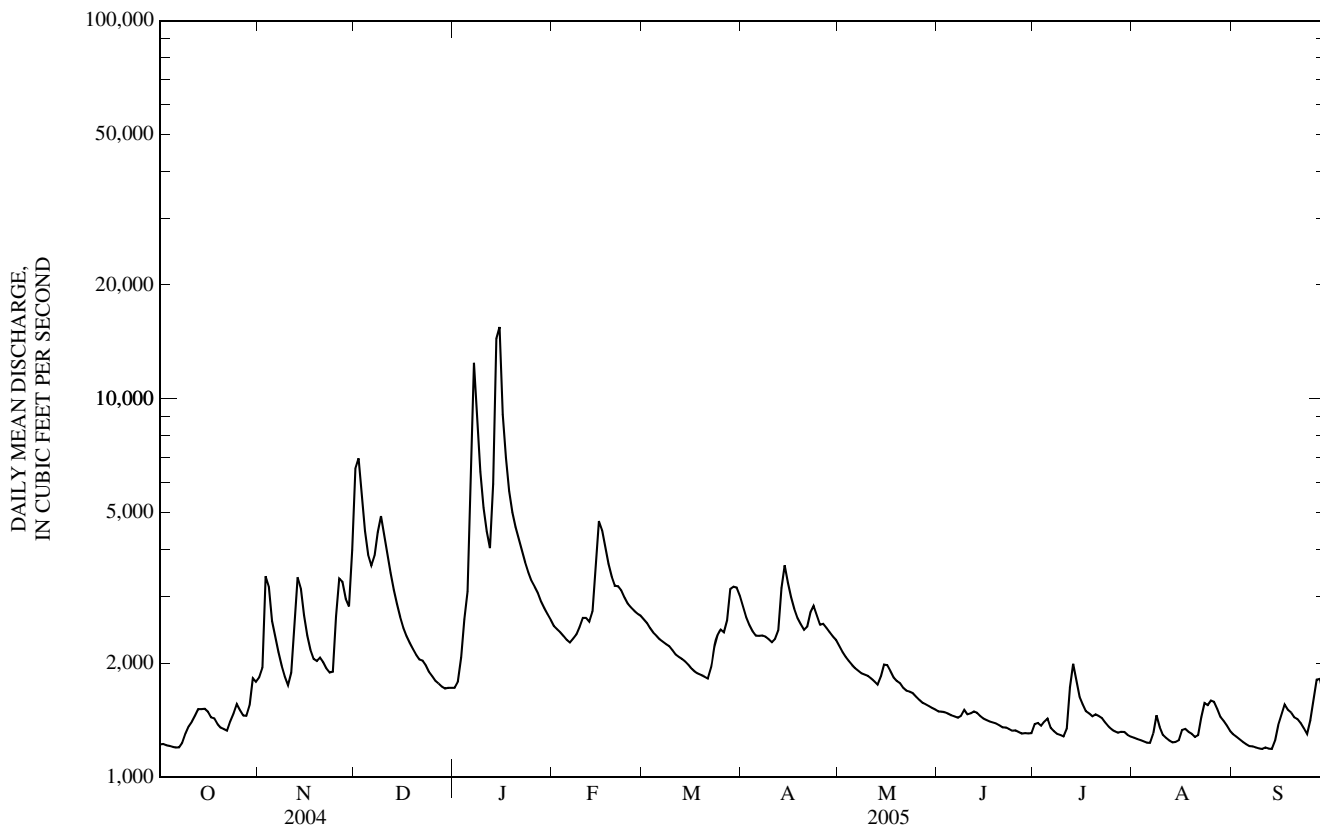
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005, BY WATER YEAR (WY)

MEAN	1,629	2,395	2,688	2,873	3,106	3,837	4,562	4,182	2,928	1,965	1,671	1,573
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005	
ANNUAL MEAN	2,679		2,284		2,780	
HIGHEST ANNUAL MEAN					5,856 1985	
LOWEST ANNUAL MEAN					1,326 1954	
HIGHEST DAILY MEAN	27,100	Apr 26	15,500	Jan 15	90,000	Mar 12, 1935
LOWEST DAILY MEAN	1,200	Oct 5-7	1,190	Sep 9,10,12,13	852	Oct 8, 1956
ANNUAL SEVEN-DAY MINIMUM	1,210	Oct 1	1,190	Sep 7	852	Oct 8, 1956
MAXIMUM PEAK FLOW	---		18,500	Jan 15	122,000	Dec 3, 1982
MAXIMUM PEAK STAGE	---		8.84	Jan 15	25.49	Dec 3, 1982
INSTANTANEOUS LOW FLOW	---		1,190	Sep 9,10,12-14	852	Oct 8, 1956
ANNUAL RUNOFF (INCHES)	17.90		15.22		18.53	
10 PERCENT EXCEEDS	3,930		3,530		4,940	
50 PERCENT EXCEEDS	2,080		1,840		1,920	
90 PERCENT EXCEEDS	1,350		1,290		1,180	



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 2004 TO SEPTEMBER 2005

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, $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)			
OCT 18...	1200	Blank	--	--	--	--	--	--	--	--	--	--			
18...	1215	Environmental	1,470	9.8	101	7.9	314	15.8	--	--	--	--			
NOV 01...	1410	Environmental	1,980	10.3	110	7.7	315	17.4	190	39.5	22.3	.96			
DEC 15...	0945	Environmental	2,650	11.9	97	7.6	272	6.9	--	--	--	--			
JAN 26...	1220	Environmental	3,190	11.7	104	7.3	248	9.4	130	26.8	15.7	.92			
FEB 16...	0950	Environmental	4,550	9.2	85	7.5	278	11.8	--	--	--	--			
MAR 16...	1115	Environmental	1,930	10.0	90	8.4	302	10.3	--	--	--	--			
APR 18...	1330	Environmental	2,630	9.7	103	8.3	312	17.9	--	--	--	--			
MAY 09...	1420	Environmental	1,860	10.5	118	8.3	305	20.1	170	35.0	21.2	.84			
JUN 13...	1240	Environmental	1,480	8.4	104	8.2	332	24.8	--	--	--	--			
JUL 20...	1000	Environmental	1,470	6.2	68	8.2	346	19.0	200	39.4	23.9	.85			
AUG 02...	1215	Environmental	1,260	7.5	92	7.8	342	25.3	--	--	--	--			
SEP 12...	1320	Environmental	1,190	9.0	109	7.6	341	23.6	--	--	--	--			
Date			Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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 18...	--	--	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
18...	--	--	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.17
NOV 01...	1.69	171	175	213	<1	2.31	<.1	2.7	177	<10	E.07n	<.04	<.04	.17	
DEC 15...	--	--	--	--	--	--	--	--	--	--	--	<10	.10	<.04	.42
JAN 26...	1.43	115	116	141	<1	2.51	E.1n	4.0	129	<10	E.07n	<.04	<.04	.50	
FEB 16...	--	--	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.32
MAR 16...	--	--	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.28
APR 18...	--	--	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	.21
MAY 09...	1.67	158	159	193	<1	2.21	E.1n	3.2	177	<10	E.07n	<.04	<.04	.17	
JUN 13...	--	--	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	.16
JUL 20...	1.67	171	171	209	<1	2.22	<.1	2.7	171	<10	.15	<.04	<.04	.15	
AUG 02...	--	--	--	--	--	--	--	--	--	--	--	<10	.12	<.04	.11
SEP 12...	--	--	--	--	--	--	--	--	--	--	--	<10	E.07n	<.04	.14

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

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 coli-form, M-FC 0.7µ MF col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, 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)	Iron, water, fltrd, µg/L (01046)
OCT 18...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
OCT 18...	<.008	<.02	<.04	<.04	110	160k	--	--	--	--	--	--	--
NOV 01...	<.008	<.02	<.04	<.04	50	72	<2	25	E.2n	<.04	<.04	E.4n	<6
DEC 15...	<.008	<.02	<.04	<.04	22	22	--	--	--	--	--	--	--
JAN 26...	<.008	<.02	<.04	<.04	13k	14k	E1n	61	E.2n	<.04	<.04	.4	<6
FEB 16...	<.008	<.02	<.04	<.04	17k	15k	--	--	--	--	--	--	--
MAR 16...	<.008	<.02	<.04	<.04	2k	1k	--	--	--	--	--	--	--
APR 18...	<.008	<.02	<.04	<.04	5k	3k	--	--	--	--	--	--	--
MAY 09...	<.008	<.09d	<.04	<.04	13k	11k	4	33	E.2n	<.04	<.04	E.3n	E5n
JUN 13...	<.008	<.02	<.04	<.04	2k	6k	--	--	--	--	--	--	--
JUL 20...	<.008	<.02	<.04	<.04	9k	24	Mn	26	.2	<.04	<.04	E.2n	E4n
AUG 02...	<.008	<.02	<.04	<.04	1k	7k	--	--	--	--	--	--	--
SEP 12...	<.008	<.02	<.04	<.04	1k	6k	--	--	--	--	--	--	--

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
OCT 18...	--	--	--	--	--	--	--
OCT 18...	--	--	--	--	--	--	--
NOV 01...	<.08	.10	2.2	<.01	<.4	1.2	<2
DEC 15...	--	--	--	--	--	--	--
JAN 26...	<.08	.23	4.0	E.01n	E.2n	1.1	E1n
FEB 16...	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--
MAY 09...	<.08	.09	4.2	E.01n	<.4	.6	<2
JUN 13...	--	--	--	--	--	--	--
JUL 20...	<.08	.10	4.8	E.01n	<.4	1.6	<2
AUG 02...	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.
- M-- Presence verified but 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

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 mi<sup>2</sup>.

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: Maximum 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 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 02...	0850	Environmental	736	8.7	93	7.1	239	17.9	130	26.8	14.4	2.05
JAN 24...	1415	Environmental	158	12.9	99	7.3	157	4.0	--	--	--	--
MAR 16...	1325	Environmental	86	11.2	98	8.0	210	9.1	--	--	--	--
MAY 10...	0830	Environmental	88	6.4	70	7.3	213	19.5	110	23.1	13.6	.93
JUL 20...	0830	Environmental	72	4.9	61	7.8	233	26.0	--	--	--	--
SEP 12...	1425	Blank	--	--	--	--	--	--	--	--	--	--
12...	1430	Environmental	36	5.9	70	7.4	310	23.6	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, field, titr., mg/L as CaCO <sub>3</sub> (00419)	Bicarbonate, wat unfltrd, field, titr., mg/L (00450)	Carbonate, wat unfltrd, field, titr., 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 02...	1.78	112	115	140	<1	3.22	<1	3.4	129	28	.35	<.04	.07
JAN 24...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.20
MAR 16...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	<.06
MAY 10...	1.81	100	99	122	<1	2.01	<1	3.0	119	19	.18	<.04	<.06
JUL 20...	--	--	--	--	--	--	--	--	--	20	.28	E.04n	.08
SEP 12...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	<.06
12...	--	--	--	--	--	--	--	--	--	13	.17	E.02n	E.04n

07068510 LITTLE BLACK RIVER BELOW FAIRDEALING, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

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 coli-form, M-FC 0.7µMF col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, 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)	Iron, water, fltrd, µg/L (01046)
NOV 02...	E.006n	<.02	E.03n	.07	3,200	3,200	3	264	.6	<.04	.06	.5	34
JAN 24...	<.008	<.02	<.04	<.04	12k	24k	--	--	--	--	--	--	--
MAR 16...	<.008	<.02	<.04	<.04	4k	10k	--	--	--	--	--	--	--
MAY 10...	<.008	<.09d	<.04	E.03n	48	50	2	162	.5	<.04	.06	E.2n	29
JUL 20...	<.008	<.02	E.02n	E.04n	110	150k	--	--	--	--	--	--	--
SEP 12...	<.008	<.02	<.04	<.04	--	--	--	--	--	--	--	--	--
SEP 12...	<.008	E.01n	<.04	E.02n	65	75k	--	--	--	--	--	--	--

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
NOV 02...	E.05n	.83	40.2	<.01	<.4	.9	3
JAN 24...	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--
MAY 10...	<.08	.50	65.2	<.01	<.4	<.6	<2
JUL 20...	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--

Remark codes used in this table:

- < -- Less than.
- E -- Estimated.

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

## 07071000 GREER SPRING AT GREER, MO

LOCATION.--Lat 36°47'12", long 91°20'51", in SE 1/4 SW 1/4 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.--No estimated daily discharges. Water-discharge records good. Occasional runoff from drainage area of 2.97 mi<sup>2</sup> included in record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	247	466	311	446	420	417	368	315	270	257	222
2	249	273	465	306	439	414	409	362	315	270	257	218
3	248	277	458	325	432	410	402	360	315	269	257	214
4	248	278	442	374	425	406	398	357	312	270	258	213
5	246	275	426	442	419	402	395	354	311	269	259	211
6	244	270	432	533	416	398	394	353	309	267	256	209
7	244	267	452	551	416	398	396	352	307	266	253	208
8	244	261	460	542	421	395	398	350	306	269	253	208
9	245	257	459	527	422	392	396	348	305	266	252	207
10	244	253	450	510	419	390	395	345	303	266	253	201
11	246	274	435	497	416	388	394	343	302	266	252	200
12	251	301	422	486	413	388	415	340	302	270	252	200
13	251	294	411	621	436	385	429	338	301	270	251	200
14	248	286	397	657	464	379	425	346	299	270	249	202
15	250	279	387	624	467	376	419	354	297	270	248	215
16	248	274	380	618	468	375	414	350	296	270	247	230
17	245	270	374	603	461	374	408	346	293	266	247	224
18	244	267	369	593	454	372	403	343	292	266	248	219
19	244	266	363	581	445	371	400	340	291	266	249	229
20	240	265	359	571	439	368	396	338	288	266	246	226
21	236	261	356	558	439	365	392	334	287	266	244	220
22	235	258	351	543	437	370	391	332	284	266	247	217
23	251	258	345	525	433	386	386	337	283	266	243	213
24	265	290	340	511	431	389	381	334	281	261	243	209
25	258	351	337	501	429	390	379	333	276	261	241	218
26	252	348	333	493	426	388	381	329	274	262	238	241
27	248	343	327	484	425	416	380	325	273	260	233	235
28	248	342	324	474	424	436	377	324	271	261	228	230
29	248	352	321	464	---	436	375	322	270	261	226	236
30	248	444	319	459	---	434	372	319	270	261	226	235
31	246	---	315	454	---	424	---	317	---	255	224	---
MEAN	247	289	390	508	434	395	397	342	294	266	246	217
MAX	265	444	466	657	468	436	429	368	315	270	259	241
MIN	235	247	315	306	413	365	372	317	270	255	224	200

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2005, BY WATER YEAR (WY)

MEAN	258	284	307	329	347	396	443	443	399	334	295	268
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)

## SUMMARY STATISTICS

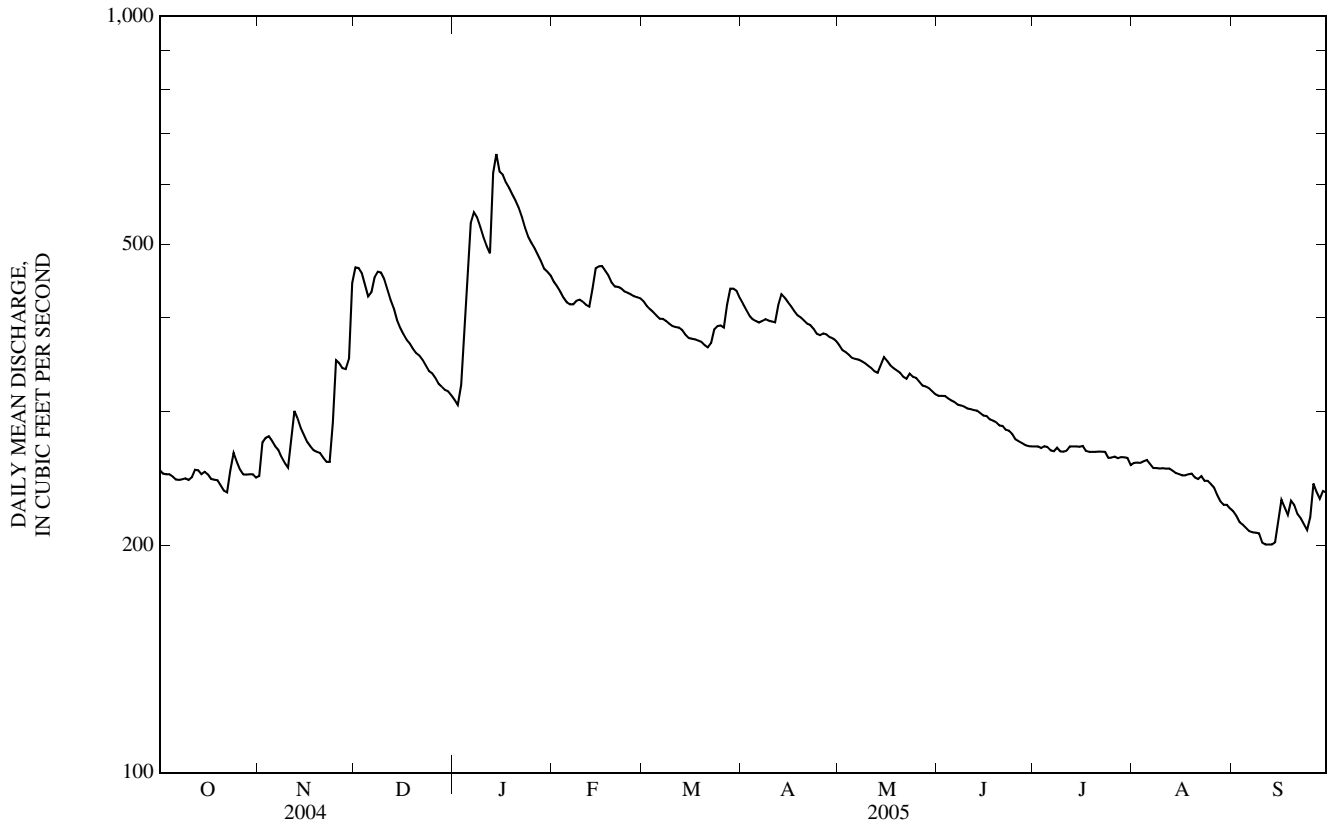
## FOR 2004 CALENDAR YEAR

## FOR 2005 WATER YEAR

## WATER YEARS 1922 - 2005

ANNUAL MEAN	377	335	342
HIGHEST ANNUAL MEAN			566
LOWEST ANNUAL MEAN			174
HIGHEST DAILY MEAN	733	Apr 25	657
LOWEST DAILY MEAN	235	Oct 22	200
ANNUAL SEVEN-DAY MINIMUM	242	Oct 16	203
MAXIMUM PEAK FLOW	---		675
MAXIMUM PEAK STAGE	---		1.50
INSTANTANEOUS LOW FLOW	---		200
10 PERCENT EXCEEDS	540		453
50 PERCENT EXCEEDS	368		319
90 PERCENT EXCEEDS	252		237

07071000 GREER SPRING AT GREER, MO—Continued



07071000 GREER SPRING AT GREER, MO—Continued

## WATER-QUALITY RECORDS

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

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)		
Date		ANC, wat unfltrd end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd titr., field, mg/L as CaCO <sub>3</sub> (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)	
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 $\mu$ MF col/100 mL (31625)	Aluminum, water, fltrd, $\mu$ g/L (01106)	Aluminum, water, unfltrd recoverable, $\mu$ g/L (01105)	Arsenic water, fltrd, $\mu$ g/L (01000)	Cadmium water, fltrd, $\mu$ g/L (01025)	Cadmium water, unfltrd $\mu$ g/L (01027)	Copper, water, fltrd, $\mu$ g/L (01040)	Iron, water, fltrd, $\mu$ g/L (01046)
DEC 13...	1300	Environmental	411	8.1	80	7.1	268	14.2	140	29.5	16.7	1.60		
MAR 16...	0950	Environmental	375	8.3	82	7.0	316	13.8	170	35.8	20.5	1.39		
MAY 18...	1210	Environmental	343	8.7	86	7.5	349	14.2	180	36.9	22.1	1.30		
18...	1211	Replicate	--	8.7	87	7.5	349	14.2	190	37.2	22.8	1.26		
AUG 15...	1155	Environmental	248	8.4	84	7.3	364	14.6	200	42.6	22.9	1.12		
DEC 13...	1.72	142	143	174	<1	2.94	<.1	2.6	152	<10	E.06n	<.04	1.23	
MAR 16...	1.74	156	156	190	<1	5.73	<.1	2.5	167	<10	<.10	<.04	1.03	
MAY 18...	1.56	170	169	206	<1	2.35	E.1n	2.2	191	<10	<.10	<.04	.82	
18...	1.60	--	--	--	--	2.34	E.1n	2.2	198	<10	<.10	<.04	.82	
AUG 15...	1.48	185	185	226	<1	2.01	<.1	2.2	211	<10	E.06n	<.04	.63	
DEC 13...	<.008	<.02	<.04	<.04	120	140	<2	81	.3	<.04	<.04	E.3n	<6	
MAR 16...	<.008	<.02	<.04	<.04	3k	2k	Mn	60	.3	<.04	<.04	E.4n	<6	
MAY 18...	<.008	--u	<.04	<.04	2k	3k	<2	64	.2	<.04	<.04	<.4	<6	
18...	<.008	--u	<.04	<.04	2k	3k	Mn	60	.2	E.02n	E.02n	<.4	<6	
AUG 15...	<.008	<.02	<.04	<.04	3k	4k	Mn	19	.3	<.04	E.02n	E.3n	<6	



07071000 GREER SPRING AT GREER, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	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)	Atra-zine, water, fltrd, µg/L (39632)
DEC 13...	<.08	.19	<.6	<.01	<.4	E.5n	<2	<.006	<.006	<.006	<.004	<.005	<.007
MAR 16...	.10	.17	<.6	E.01n	.4	13.3	12	<.006	<.006m	<.006	<.005	<.005	<.007
MAY 18...	<.08	.32	<.6	<.01	<.4	.9	<2	<.006	<.006m	<.006	<.005	<.005	<.007
MAY 18...	<.08	.11	<.6	<.01	<.4	E.6n	E1n	<.006	<.006m	<.006	<.005	<.005	<.007
AUG 15...	<.08	E.05n	<.6c	<.01	E.2n	.6	<2	<.006	<.006m	<.006	<.005	<.005	<.007
Date	Azin-phos-methyl, water, fltrd 0.7µ GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF ug/L (82673)	Butyl-ate, water, fltrd, µg/L (04028)	Car-baryl, water, fltrd 0.7µ GF ug/L (82680)	Carbo-furan, water, fltrd 0.7µ GF ug/L (82674)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7µ GF ug/L (82687)	Cyana-zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF ug/L (82682)	Diazi-non, water, fltrd, µg/L (39572)	Diel-drin, water, fltrd, µg/L (39381)	Disul-foton, water, fltrd 0.7µ GF ug/L (82677)	EPTC, water, fltrd 0.7µ GF ug/L (82668)
DEC 13...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.005	<.005	<.02	<.002
MAR 16...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
MAY 18...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
MAY 18...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.004
AUG 15...	<.050m	<.010	<.004	<.041m	<.020m	<.005	<.006	<.018	<.003	<.005	<.009	<.02m	<.037
Date	Ethal-flur-alin, water, fltrd 0.7µ GF ug/L (82663)	Etho-prop, water, fltrd 0.7µ GF ug/L (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF ug/L (82666)	Malathion, water, fltrd, µg/L (39532)	Methyl parathion, water, fltrd 0.7µ GF ug/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd 0.7µ GF ug/L (82671)	Naprop-amide, water, fltrd 0.7µ GF ug/L (82684)	p,p'-DDE, water, fltrd, µg/L (34653)	Para-thion, water, fltrd, µg/L (39542)
DEC 13...	<.009	<.005	<.003	<.004	<.035	<.027	<.006	<.013	<.006	<.002	<.007	<.003	<.010
MAR 16...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
MAY 18...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
MAY 18...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
AUG 15...	<.009	<.005	<.003	<.004	<.035	<.027	<.015	<.006	<.006	<.003	<.007	<.003	<.010
Date	Peb-ulate, water, fltrd 0.7µ GF ug/L (82669)	Pendi-meth-alin, water, fltrd 0.7µ GF ug/L (82683)	Phorate water fltrd 0.7µ GF ug/L (82664)	Prome-ton, water, fltrd, µg/L (04037)	Propy-zamide, water, fltrd 0.7µ GF ug/L (82676)	Propa-chlor, water, fltrd, µg/L (04024)	Pro-panil, water, fltrd 0.7µ GF ug/L (82679)	Propar-gite, water, fltrd 0.7µ GF ug/L (82685)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-thiuron water fltrd 0.7µ GF ug/L (82670)	Terba-cil, water, fltrd 0.7µ GF ug/L (82665)	Terbu-fos, water, fltrd 0.7µ GF ug/L (82675)	Thio-bencarb water fltrd 0.7µ GF ug/L (82681)
DEC 13...	<.004	<.022	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
MAR 16...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
MAY 18...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
MAY 18...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010
AUG 15...	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034m	<.02	<.010

## WHITE RIVER BASIN

07071000 GREER SPRING AT GREER, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tri- allate, water, fltrd 0.7 $\mu$ GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7 $\mu$ GF ug/L (82661)
DEC 13...	<.002	<.009
MAR 16...	<.006	<.009
MAY 18...	<.006	<.009
18...	<.006	<.009
AUG 15...	<.006	<.009

## Remark codes used in this table:

&lt; -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

## Value qualifier codes used in this table:

k -- Counts outside acceptable range

m -- Value is highly variable by this method

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

## Null value qualifier codes used in this table:

u -- Unable to determine-matrix interference

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 mi<sup>2</sup>.

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.--No estimated daily discharges. Water-discharge records good. 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 ft<sup>3</sup>/s, from rating curve extended above 25,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	391	1,140	490	831	854	927	688	505	445	348	304
2	353	448	1,010	497	825	824	885	668	503	440	346	301
3	348	468	907	721	808	802	849	656	500	420	341	298
4	346	444	837	919	787	793	825	646	495	427	339	296
5	342	430	798	1,220	773	776	804	636	488	416	337	294
6	341	417	858	1,620	768	757	808	629	484	410	339	290
7	341	406	985	1,600	793	757	840	624	481	406	342	289
8	358	392	1,030	1,350	837	749	869	621	536	403	341	288
9	355	381	979	1,200	856	734	853	620	517	400	338	288
10	355	375	933	1,120	838	722	834	613	508	398	334	287
11	388	463	865	1,060	816	712	848	605	553	405	331	285
12	378	571	815	1,010	807	707	935	595	528	460	328	283
13	376	519	768	3,100	926	700	991	587	505	443	326	282
14	381	477	720	3,380	1,130	684	965	607	493	418	331	305
15	375	451	683	2,060	1,110	665	917	607	482	408	339	341
16	368	435	659	1,690	1,080	657	879	596	473	402	341	341
17	357	422	637	1,500	1,020	651	848	595	469	400	332	329
18	358	420	621	1,380	973	645	826	589	464	394	331	328
19	354	420	601	1,320	929	643	806	585	453	394	327	323
20	348	416	585	1,260	911	633	792	579	446	392	323	321
21	345	406	579	1,210	960	628	779	569	440	386	327	311
22	343	399	576	1,150	971	683	768	562	437	380	347	304
23	369	400	558	1,090	932	788	749	553	434	375	350	300
24	387	448	537	1,050	923	793	725	547	430	371	341	293
25	385	602	527	1,020	904	787	714	539	427	368	334	327
26	373	599	522	996	890	769	752	532	423	367	326	339
27	366	585	511	950	878	952	744	527	420	366	321	333
28	365	581	501	913	879	1,160	728	522	420	359	319	322
29	365	609	499	900	---	1,100	722	519	416	356	317	320
30	377	985	497	877	---	1,060	710	516	418	351	316	316
31	370	---	492	854	---	994	---	511	---	349	311	---
MEAN	362	479	717	1,274	898	780	823	588	472	397	333	308
MAX	388	985	1,140	3,380	1,130	1,160	991	688	553	460	350	341
MIN	341	375	492	490	768	628	710	511	416	349	311	282
IN.	0.53	0.67	1.04	1.85	1.18	1.13	1.16	0.86	0.66	0.58	0.48	0.43

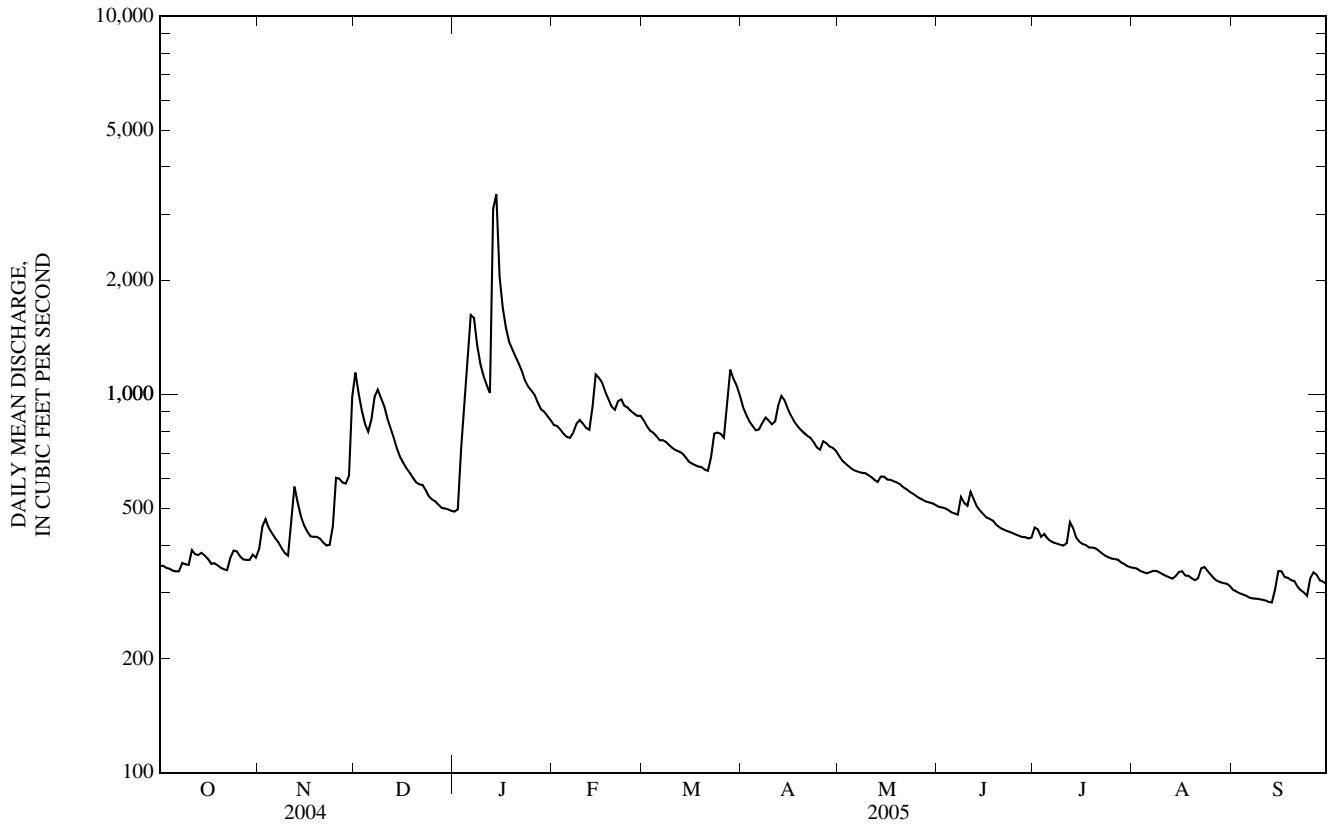
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2005, BY WATER YEAR (WY)

MEAN	420	593	707	787	830	1,059	1,297	1,162	871	601	483	430
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)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1922 - 2005
ANNUAL MEAN	720	618	769
HIGHEST ANNUAL MEAN			1,782
LOWEST ANNUAL MEAN			303
HIGHEST DAILY MEAN	12,900	Apr 25	26,800
LOWEST DAILY MEAN	341	Oct 6, 7	155
ANNUAL SEVEN-DAY MINIMUM	346	Oct 1	157
MAXIMUM PEAK FLOW	---	5,450	49,800
MAXIMUM PEAK STAGE	---	7.62	21.64
INSTANTANEOUS LOW FLOW	---	278	152
ANNUAL RUNOFF (INCHES)	12.37	10.58	13.18
10 PERCENT EXCEEDS	1,030	981	1,400
50 PERCENT EXCEEDS	620	519	550
90 PERCENT EXCEEDS	374	329	265

07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO—Continued



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 2004 TO SEPTEMBER 2005

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 $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 01...	1200	Environmental	382	9.1	95	7.6	343	15.9	200	43.1	23.6	1.28
JAN 24...	1200	Environmental	1,050	13.1	116	7.5	253	9.5	--	--	--	--
MAR 16...	0845	Environmental	661	9.9	92	8.1	319	11.0	--	--	--	--
MAY 09...	1140	Blank	--	--	--	--	--	--	--	E.01n	.009	<.16
MAY 09...	1215	Environmental	620	9.7	105	8.2	323	17.5	190	38.6	23.0	1.25
JUL 20...	1230	Environmental	389	9.1	106	8.2	371	22.3	--	--	--	--
SEP 12...	1150	Environmental	287	9.5	106	7.5	366	19.1	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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 01...	1.50	185	186	227	<1	2.12	<.1	2.2	186	<10	<.10	<.04	.46
JAN 24...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	.88
MAR 16...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.67
MAY 09...	<.20	--	--	--	--	<.20	<.1	<.2	<10	<10	<.10	.04	<.06
MAY 09...	1.59	176	173	215	<1	2.31	E.1n	2.3	189	<10	E.07n	<.04	.52
JUL 20...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	.45
SEP 12...	--	--	--	--	--	--	--	--	--	<10	E.07n	E.02n	.40

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (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 MF, col/100 mL (31625)	Aluminum, water, fltrd, $\mu$ g/L (01106)	Aluminum, water, unfltrd recoverable, $\mu$ g/L (01105)	Arsenic water, fltrd, $\mu$ g/L (01000)	Cadmium water, fltrd, $\mu$ g/L (01025)	Cadmium water, unfltrd, $\mu$ g/L (01027)	Copper, water, fltrd, $\mu$ g/L (01040)	Iron, water, fltrd, $\mu$ g/L (01046)
NOV 01...	<.008	<.02	<.04	<.04	40	48	<2	16	.4	<.04	<.04	E.2n	E3n
JAN 24...	<.008	<.02	<.04	E.02n	18k	94	--	--	--	--	--	--	--
MAR 16...	<.008	<.02	<.04	<.04	3k	3k	--	--	--	--	--	--	--
MAY 09...	<.008	<.09d	<.04	<.04	--	--	<2	5	<.2	<.04	<.04	<.4	<.6
MAY 09...	<.008	<.09d	<.04	<.04	3k	9k	E.1n	31	.2	<.04	<.04	E.3n	E5n
JUL 20...	<.008	<.02	<.04	<.04	4k	7k	--	--	--	--	--	--	--
SEP 12...	<.008	<.02	<.04	<.04	15k	20	--	--	--	--	--	--	--

## 07071500 ELEVEN POINT RIVER NEAR BARDLEY, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	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 01...	<.08	.07	2.9	<.01	<.4	E.5n	<2
JAN 24...	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--
MAY 09...	<.08	<.06	<.6	E.01n	<.4	<.6	<2
09...	<.08	.10	4.3	<.01	<.4	E.3n	<2
JUL 20...	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--

## Remark codes used in this table:

< -- Less than.  
E -- Estimated.

## 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

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 mi<sup>2</sup>.

PERIOD OF RECORDED.--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 fair except for period Oct. 1-31, which is poor. 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

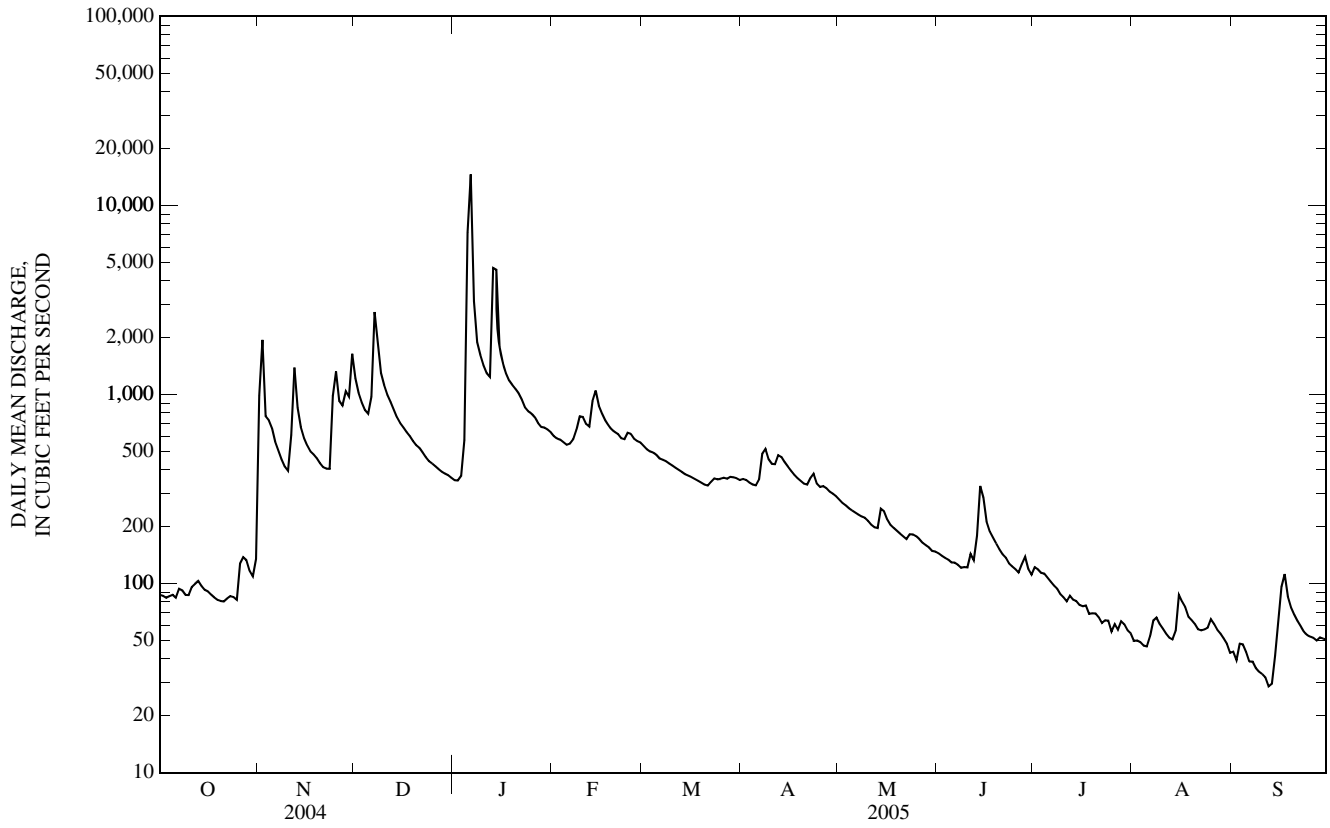
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	988	1,220	353	602	535	357	278	145	122	50	44
2	86	1,950	1,020	351	584	513	353	267	140	119	50	39
3	84	768	908	371	577	500	342	259	137	114	49	48
4	86	731	828	574	559	493	334	251	134	113	47	48
5	87	663	792	7,190	542	479	331	244	129	107	47	44
6	84	562	973	14,600	549	458	356	238	129	102	53	39
7	94	504	2,730	3,120	580	451	487	232	126	98	64	39
8	92	454	1,940	1,890	652	443	516	226	121	94	66	36
9	87	416	1,300	1,620	766	431	454	223	122	88	61	34
10	87	395	1,120	1,430	760	420	430	215	122	85	58	33
11	96	611	998	1,300	699	410	428	205	144	81	54	32
12	100	1,390	916	1,240	677	399	478	199	133	86	52	29
13	103	850	833	4,680	922	389	468	197	179	82	51	29
14	97	673	757	4,580	1,050	378	439	249	328	81	56	41
15	93	589	706	1,790	872	372	415	241	285	77	87	66
16	91	537	670	1,480	793	365	395	218	213	76	80	96
17	88	500	633	1,300	730	357	376	204	189	77	75	112
18	85	482	603	1,190	685	350	361	197	175	69	67	85
19	82	460	567	1,120	653	342	349	190	163	70	64	75
20	81	433	540	1,070	633	333	337	184	152	70	61	69
21	80	412	523	1,010	617	330	334	178	143	66	57	64
22	83	405	494	938	587	346	361	172	137	62	56	60
23	86	405	467	853	580	360	381	182	128	64	57	56
24	85	982	444	814	627	356	338	182	123	64	58	53
25	82	1,320	431	793	618	359	325	178	119	56	65	52
26	127	923	417	759	584	362	328	172	114	61	61	52
27	138	875	403	707	567	359	319	164	126	57	57	50
28	133	1,040	391	674	557	367	307	160	138	63	54	52
29	117	975	382	669	---	365	299	155	119	61	51	51
30	109	1,640	374	653	---	361	290	149	111	57	48	50
31	135	---	363	632	---	353	---	148	---	55	43	---
MEAN	95.6	764	798	1,927	665	398	376	205	151	79.9	58.0	52.6
MAX	138	1,950	2,730	14,600	1,050	535	516	278	328	122	87	112
MIN	80	395	363	351	542	330	290	148	111	55	43	29
IN.	0.26	2.01	2.17	5.23	1.63	1.08	0.99	0.56	0.40	0.22	0.16	0.14

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

MEAN	206	449	386	414	422	660	531	571	411	276	130	191
MAX	561	1,785	1,475	1,927	1,567	1,854	1,701	2,123	1,343	1,038	296	625
(WY)	(1974)	(1973)	(1974)	(2005)	(1975)	(1973)	(1973)	(2002)	(1974)	(1976)	(1979)	(1971)
MIN	50.8	59.4	57.7	50.0	104	108	138	174	70.8	49.3	53.4	46.3
(WY)	(2004)	(2003)	(1977)	(1977)	(1977)	(1972)	(1977)	(1971)	(1972)	(1972)	(1972)	(1980)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	FOR PERIOD OF RECORD
ANNUAL MEAN	586	464	390
HIGHEST ANNUAL MEAN			836
LOWEST ANNUAL MEAN			144
HIGHEST DAILY MEAN	4,400	Mar 5	14,600
LOWEST DAILY MEAN	80	Oct 21	29
ANNUAL SEVEN-DAY MINIMUM	83	Oct 19	33
MAXIMUM PEAK FLOW	---		18,900
MAXIMUM PEAK STAGE	---		14.73
INSTANTANEOUS LOW FLOW	---		28
ANNUAL RUNOFF (INCHES)	18.77		14.83
10 PERCENT EXCEEDS	1,110		922
50 PERCENT EXCEEDS	432		285
90 PERCENT EXCEEDS	119		56

<sup>a</sup> Former datum.





07186000 SPRING RIVER NEAR WACO, MO

LOCATION.--Lat 37°14'44", long 94°33'59", 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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	4,850	3,520	487	939	881	476	520	187	168	42	64
2	89	6,590	2,050	474	903	831	480	478	182	135	36	56
3	86	3,750	1,620	537	903	792	485	432	176	128	38	50
4	87	2,770	1,410	2,130	891	771	461	400	172	136	39	64
5	88	1,870	1,400	16,100	851	749	445	371	165	128	46	61
6	86	1,230	3,660	23,900	931	713	806	353	159	121	42	65
7	89	935	10,500	20,000	2,180	671	2,790	336	162	109	50	72
8	116	778	7,980	8,980	2,400	644	2,080	325	168	101	62	56
9	97	670	4,680	2,990	2,850	609	1,230	314	183	94	62	47
10	93	606	2,230	2,640	2,350	587	910	303	170	86	56	41
11	103	2,710	1,680	2,430	1,650	563	812	290	173	82	51	37
12	119	5,880	1,470	2,340	1,390	544	1,340	274	217	77	46	34
13	118	3,640	1,320	8,580	3,440	517	1,510	264	1,980	85	44	33
14	128	1,790	1,170	9,500	4,070	494	957	2,570	1,590	79	57	40
15	128	1,150	1,060	5,080	2,500	488	786	2,850	938	79	86	93
16	119	970	987	2,370	1,590	473	683	1,200	480	70	120	184
17	111	864	934	1,920	1,330	452	621	531	344	73	91	297
18	106	821	887	1,720	1,180	442	580	402	278	71	84	215
19	98	867	833	1,620	1,090	425	546	341	239	64	77	142
20	93	839	783	1,560	1,040	413	520	304	214	65	71	111
21	92	767	741	1,500	1,010	403	500	275	197	64	66	94
22	94	835	698	1,410	952	421	1,490	254	181	63	62	82
23	101	1,010	643	1,280	968	489	925	377	169	55	62	74
24	95	5,780	592	1,170	1,360	534	708	342	155	53	62	68
25	94	7,830	570	1,130	1,370	552	568	330	144	54	62	62
26	106	4,790	549	1,090	1,150	640	590	271	133	55	70	58
27	275	4,090	533	1,030	1,010	632	643	241	128	67	69	57
28	714	3,730	520	975	940	569	559	224	138	56	67	56
29	441	2,910	512	965	---	542	527	214	137	53	65	56
30	264	4,630	508	983	---	514	512	203	121	49	79	54
31	203	---	498	981	---	481	---	196	---	45	76	---
MEAN	146	2,665	1,824	4,125	1,544	575	851	509	323	82.7	62.6	80.8
MAX	714	7,830	10,500	23,900	4,070	881	2,790	2,850	1,980	168	120	297
MIN	86	606	498	474	851	403	445	196	121	45	36	33
IN.	0.14	2.56	1.81	4.09	1.38	0.57	0.82	0.50	0.31	0.08	0.06	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2005, BY WATER YEAR (WY)

MEAN	645	947	722	754	937	1,218	1,454	1,587	1,367	704	418	540
MAX	6,997	6,726	4,704	4,125	6,372	5,809	7,542	11,640	5,521	4,323	7,812	10,260
(WY)	(1942)	(1986)	(1993)	(2005)	(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)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

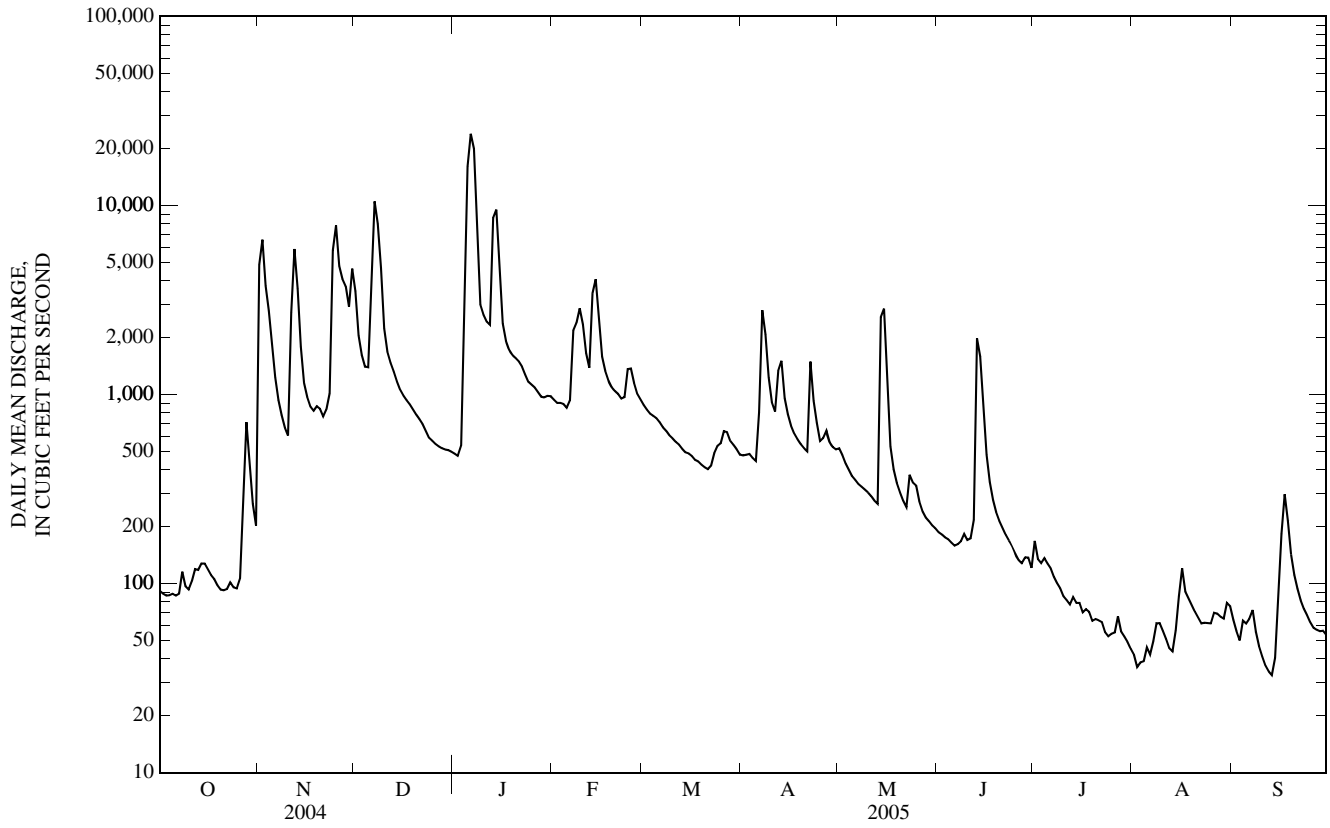
FOR 2005 WATER YEAR

WATER YEARS 1924 - 2005

ANNUAL MEAN	1,355	1,063	935
HIGHEST ANNUAL MEAN			3,093
LOWEST ANNUAL MEAN			61.4
HIGHEST DAILY MEAN	17,600	Mar 5	23,900
LOWEST DAILY MEAN	86	Oct 3,6	33
ANNUAL SEVEN-DAY MINIMUM	88	Oct 1	41
MAXIMUM PEAK FLOW	---		26,300
MAXIMUM PEAK STAGE	---		22.34
INSTANTANEOUS LOW FLOW	---		31
ANNUAL RUNOFF (INCHES)	15.85		12.40
10 PERCENT EXCEEDS	3,480		2,410
50 PERCENT EXCEEDS	658		474
90 PERCENT EXCEEDS	122		62
			65

<sup>a</sup> From rating extended above 85,000 ft<sup>3</sup>/s.

07186000 SPRING RIVER NEAR WACO, MO—Continued



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 mi<sup>2</sup>.

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 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 15...	1410	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
NOV 15...	1510	Environmental	384	11.0	105	7.5	357	12.8	170	61.2	3.11	2.36
JAN 10...	1400	Environmental	998	14.2	131	7.5	287	10.4	--	--	--	--
FEB 08...	0855	Environmental	441	13.8	121	7.3	368	8.5	--	--	--	--
MAR 22...	0850	Environmental	179	9.6	90	7.5	362	10.9	--	--	--	--
APR 18...	1330	Environmental	208	9.9	109	8.1	370	18.6	--	--	--	--
MAY 24...	1500	Environmental	167	7.1	83	7.6	382	21.8	180	64.9	3.40	2.01
JUN 20...	1310	Environmental	123	9.7	121	8.2	376	25.3	--	--	--	--
JUL 25...	1250	Environmental	49	7.7	107	8.0	378	30.3	190	67.7	3.88	2.37
SEP 21...	1545	Environmental	47	8.5	111	7.7	360	27.3	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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 + nitrate, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 15...	<.20	--	--	--	--	<.20	<.1	E.1n	<10d	<10	<.10	E.04n	<.06
NOV 15...	5.50	127	126	154	<1	8.59	.1	26.8	213d	<10	.15	<.04	2.83
JAN 10...	--	--	--	--	--	--	--	--	--	17	.21	<.04	2.77
FEB 08...	--	--	--	--	--	--	--	--	--	20	.25	<.04	2.37
MAR 22...	--	--	--	--	--	--	--	--	--	<10	.17	<.04	2.53
APR 18...	--	--	--	--	--	--	--	--	--	<10	.20	<.04	1.86
MAY 24...	7.43	133	135	165	<1	9.44	.2	32.9	231	62	.52	.05	1.88
JUN 20...	--	--	--	--	--	--	--	--	--	22	.27	<.04	2.36
JUL 25...	9.05	147	147	179	<1	12.4	.2	29.7	240	15	.28	<.04	1.93
SEP 21...	--	--	--	--	--	--	--	--	--	14	.27	<.04	1.44

## 07186480 CENTER CREEK NEAR SMITHFIELD, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

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 coli-form, M-FC 0.7μ MF col/100 mL (31625)	Aluminum, water, fltrd, μg/L (01106)	Aluminum, 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)	Iron, water, fltrd, μg/L (01046)
NOV 15...	<.008	<.02	<.04	<.04	--	--	<2	<2	<.2	<.04	<.04	<.4	<6
NOV 15...	<.008	.04	.05	.07	170	290	E1n	118	.3	1.34	1.51	.7	E3n
JAN 10...	<.008	.04	.06	.08	250	440	--	--	--	--	--	--	--
FEB 08...	E.005n	.02	E.04n	.05	94	150k	--	--	--	--	--	--	--
MAR 22...	.017	E.02n	E.03n	E.03n	84	110	--	--	--	--	--	--	--
APR 18...	.009	.04	.05	.07	17k	65k	--	--	--	--	--	--	--
MAY 24...	.012	.10	.11	.18	530	510	2	741	.8	.16	2.00	.7	E4n
JUN 20...	<.008	.10	.10	.14	72	140k	--	--	--	--	--	--	--
JUL 25...	E.007n	.13	.19	.22	18k	58	2	163	.7	.06	1.28	1.6	<6
SEP 21...	E.005n	.13	.15	.17	84	120	--	--	--	--	--	--	--

Date	Lead, water, fltrd, μg/L (01049)	Lead, water, unfltrd recover-able, μg/L (01051)	Manganese, water, fltrd, μg/L (01056)	Mercury water, unfltrd recover-able, μg/L (71900)	Selenium, water, fltrd, μg/L (01145)	Zinc, water, fltrd, μg/L (01090)	Zinc, water, unfltrd recover-able, μg/L (01092)
NOV 15...	<.08	.08	<.6	E.01n	<.4	<.6	<2
NOV 15...	.12	3.43	25.8	E.01n	E.4n	284	296
JAN 10...	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--
MAY 24...	.17	19.6	39.2	E.01n	1.8	77.8	314
JUN 20...	--	--	--	--	--	--	--
JUL 25...	.58	12.2	35.8	<.01	E.3n	50.3	168
SEP 21...	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

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

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.

DRAINAGE AREA.--41.8 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1963 to September 1977, November 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 16...	0840	Environmental	54	7.6	78	7.6	560	15.2	240	86.5	5.38	6.45
JAN 10...	1515	Environmental	104	9.6	91	7.7	465	11.2	--	--	--	--
FEB 07...	1555	Environmental	88	10.7	98	7.4	474	10.3	--	--	--	--
MAR 21...	1230	Environmental	30	11.6	112	7.8	601	12.0	--	--	--	--
APR 18...	1445	Environmental	37	10.7	119	8.0	612	19.2	--	--	--	--
APR 18...	1446	Replicate	--	10.8	120	8.1	614	19.2	--	--	--	--
MAY 23...	1345	Environmental	58	6.8	83	7.9	414	23.9	150	55.8	3.65	5.14
JUN 20...	1420	Environmental	24	9.4	119	7.8	646	26.2	--	--	--	--
JUL 25...	1415	Environmental	23	8.3	115	7.9	592	30.1	240	85.0	5.78	8.56
SEP 21...	1415	Environmental	21	7.0	92	7.8	692	27.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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 + nitrate, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)
NOV 16...	20.9	160	162	198	<1	26.0	.2	73.0	345d	<10	.72	<.04	2.85
JAN 10...	--	--	--	--	--	--	--	--	--	<10	.53	<.04	1.31
FEB 07...	--	--	--	--	--	--	--	--	--	17	1.6	.24	3.11
MAR 21...	--	--	--	--	--	--	--	--	--	<10	1.4	<.04	5.08d
APR 18...	--	--	--	--	--	--	--	--	--	<10	1.6	<.04	4.66
APR 18...	--	--	--	--	--	--	--	--	--	<10	1.6	<.04	4.71
MAY 23...	19.1	113	112	137	<1	19.8	.2	41.9	252	<10	1.2	<.04	2.73
JUN 20...	--	--	--	--	--	--	--	--	--	<10	1.9	<.04	5.40d
JUL 25...	26.3	146	146	179	<1	33.2	.3	84.6	392	<10	2.1	<.04	6.00d
SEP 21...	--	--	--	--	--	--	--	--	--	<10	2.5	<.04	6.92d

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

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 coli-form, M-FC 0.7µ MF col/100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, 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)	Iron, water, fltrd, µg/L (01046)
NOV 16...	<.008	.50	.60	.61	640	710k	3	12	.5	2.28	2.27	1.7	13
JAN 10...	<.008	.21	.26	.27	420	1,500k	--	--	--	--	--	--	--
FEB 07...	.009	.44	.47	.50	1,000	>1,200a	--	--	--	--	--	--	--
MAR 21...	.009	.98d	1.08	1.06	550	530k	--	--	--	--	--	--	--
APR 18...	E.004n	1.15d	1.19	1.22	200k	490	--	--	--	--	--	--	--
APR 18...	.009	1.15d	1.19	1.23	190k	410	--	--	--	--	--	--	--
MAY 23...	.023	.86	.87	.90	2,400	2,000	2	119	1.2	.64	1.38	2.6	13
JUN 20...	E.005n	1.33d	1.47	1.46	400	1,400k	--	--	--	--	--	--	--
JUL 25...	E.006n	1.22d	1.21	1.27	20k	400	3	15	.9	1.24	1.50	2.0	9
SEP 21...	E.007n	1.95d	2.08d	2.08d	900	1,500k	--	--	--	--	--	--	--

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
NOV 16...	1.14	2.96	12.8	E.01n	.6	503	477
JAN 10...	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--
MAY 23...	.79	10.6	23.9	E.01n	2.8	150	245
JUN 20...	--	--	--	--	--	--	--
JUL 25...	1.80	4.45	12.8	E.01n	.5	190	194
SEP 21...	--	--	--	--	--	--	--

Remark codes used in this table:

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

Value qualifier codes used in this table:

- a -- Value extrapolated at high end
- d -- Diluted sample: method hi range exceeded
- k -- Counts outside acceptable range
- n -- Below the LRL and above the LT-MDL

07187000 SHOAL CREEK ABOVE JOPLIN, MO

LOCATION.--Lat 37°01'23", long 94°31'00", 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 mi<sup>2</sup>.

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.--Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	555	1,040	369	607	592	348	308	268	232	135	80
2	117	1,870	928	363	596	571	339	298	259	245	132	77
3	118	808	840	375	584	554	328	292	246	214	127	80
4	113	749	770	492	564	535	323	289	237	212	122	84
5	109	667	733	5,440	551	510	322	282	233	199	126	79
6	107	587	792	9,490	562	492	355	280	222	187	126	78
7	117	527	1,580	3,230	640	485	434	279	213	176	126	71
8	154	472	1,600	2,290	e715	473	468	274	208	168	120	74
9	134	428	1,280	1,870	702	463	447	270	210	159	117	74
10	130	401	1,130	1,590	670	452	436	266	212	156	114	72
11	139	479	998	1,410	662	438	434	e258	210	150	112	70
12	146	505	903	1,310	655	426	453	250	213	152	110	68
13	144	483	823	3,340	691	417	444	249	378	148	106	68
14	139	453	754	3,890	695	403	424	278	484	146	125	84
15	134	422	701	1,960	681	394	408	300	401	147	168	202
16	131	397	666	1,610	665	389	398	273	350	139	168	372
17	126	377	634	1,400	639	380	e384	260	316	137	149	209
18	122	377	603	1,260	615	373	370	250	290	128	135	161
19	119	365	572	1,160	595	367	362	243	263	676	129	140
20	118	347	542	1,080	579	358	350	237	237	380	119	126
21	118	337	525	1,020	573	355	356	229	224	251	117	117
22	120	338	498	944	549	361	395	223	216	217	112	110
23	126	341	475	868	569	376	370	362	208	194	112	104
24	113	488	456	827	634	366	355	538	200	178	110	98
25	101	778	444	798	636	370	347	481	190	168	105	96
26	139	740	431	768	636	357	360	442	184	161	97	94
27	137	752	414	724	633	352	345	387	177	181	94	92
28	129	759	402	693	620	344	326	352	171	167	90	92
29	137	791	395	684	---	340	322	325	167	158	85	99
30	155	1,090	387	657	---	336	315	300	162	150	82	92
31	162	---	380	633	---	328	---	282	---	142	80	---
MEAN	128	589	732	1,695	626	418	377	302	245	197	118	109
MAX	162	1,870	1,600	9,490	715	592	468	538	484	676	168	372
MIN	101	337	380	363	549	328	315	223	162	128	80	68
IN.	0.35	1.54	1.98	4.58	1.53	1.13	0.99	0.82	0.64	0.53	0.32	0.28

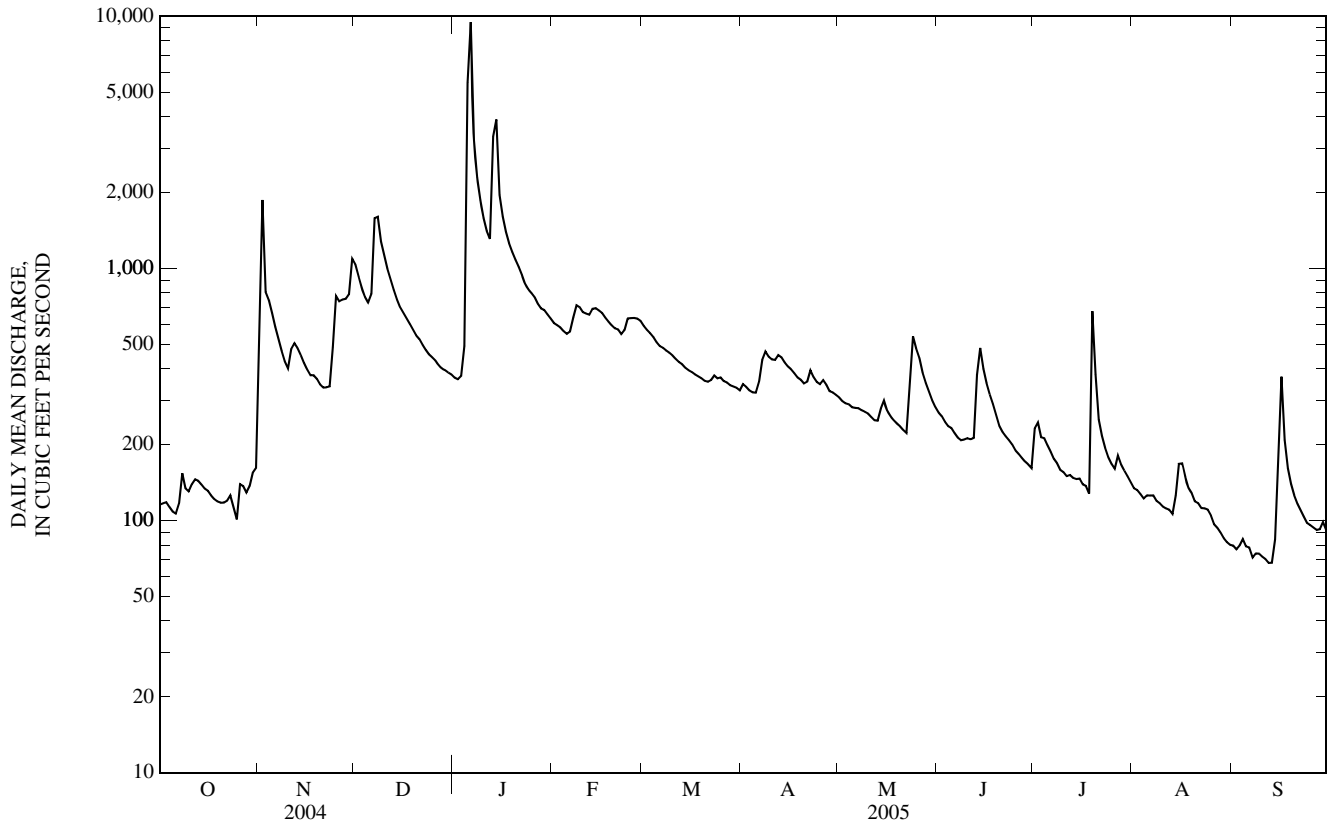
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005, BY WATER YEAR (WY)

	283	396	358	347	391	561	646	709	567	349	212	244
MEAN	283	396	358	347	391	561	646	709	567	349	212	244
MAX	1,709	2,034	1,993	1,695	1,233	1,961	3,281	4,691	2,470	2,049	2,337	1,872
(WY)	(1960)	(1986)	(1993)	(2005)	(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)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1942 - 2005
ANNUAL MEAN	511	461	421
HIGHEST ANNUAL MEAN			1,221
LOWEST ANNUAL MEAN			77.8
HIGHEST DAILY MEAN	6,390	Apr 25	36,700
LOWEST DAILY MEAN	101	Oct 25	15
ANNUAL SEVEN-DAY MINIMUM	114	Sep 30	16
MAXIMUM PEAK FLOW	---	11,500	62,100
MAXIMUM PEAK STAGE	---	12.98	16.80 <sup>a</sup>
INSTANTANEOUS LOW FLOW	---	63	12
ANNUAL RUNOFF (INCHES)	16.31	14.67	13.41
10 PERCENT EXCEEDS	928	783	860
50 PERCENT EXCEEDS	380	340	237
90 PERCENT EXCEEDS	139	111	89

e Estimated  
<sup>a</sup> Former site and datum.

07187000 SHOAL CREEK ABOVE JOPLIN, MO—Continued





07188653 BIG SUGAR CREEK NEAR POWELL, MO

LOCATION.--Lat 36°36'57", long 94°10'56", 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 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 25, 2000 to current year.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	1,230	396	66	94	155	135	73	90	46	11	5.6
2	9.5	387	301	66	92	142	140	69	81	36	11	5.5
3	8.5	249	246	82	89	133	138	66	74	32	9.6	5.2
4	8.3	244	211	3,120	86	125	134	63	68	33	9.4	5.5
5	7.6	200	199	4,070	83	117	132	61	64	29	10	10
6	7.0	168	226	1,610	85	110	182	59	55	25	26	7.8
7	7.8	144	647	750	94	117	233	58	49	23	22	6.7
8	10	123	512	509	100	126	218	57	45	21	16	6.5
9	10	108	369	387	107	122	195	56	43	18	13	5.6
10	9.6	97	289	317	111	118	177	54	42	16	12	4.7
11	11	109	238	276	113	114	298	51	40	15	10	4.1
12	13	107	208	498	117	110	380	48	37	13	8.6	4.2
13	12	97	183	2,940	140	106	300	46	59	11	7.4	4.1
14	11	89	163	823	153	100	237	69	493	10	12	6.8
15	11	83	150	508	155	95	198	59	234	9.8	18	16
16	10	79	140	373	149	92	172	52	165	8.9	26	16
17	10	74	132	297	141	88	154	48	131	7.7	28	12
18	10	81	125	252	133	85	139	44	107	7.1	21	9.3
19	9.6	85	117	225	126	82	128	42	89	87	16	8.3
20	9.9	84	111	202	122	78	120	39	77	59	14	7.3
21	10	84	107	184	121	77	113	37	69	38	18	6.7
22	11	94	100	167	113	83	107	35	64	27	17	6.2
23	12	101	94	150	142	87	99	214	57	24	16	5.6
24	13	193	88	141	210	87	92	351	50	29	14	5.3
25	12	263	84	134	217	110	88	408	45	25	12	6.1
26	21	212	81	127	202	128	92	236	41	19	11	6.3
27	25	228	77	117	185	140	84	183	38	24	10	5.6
28	21	236	74	112	171	147	85	154	36	19	9.1	5.8
29	24	422	73	108	---	146	82	130	33	16	7.8	5.6
30	40	633	71	102	---	142	78	114	30	14	6.7	4.4
31	49	---	68	98	---	132	---	102	---	12	6.0	---
MEAN	13.9	210	190	607	130	113	158	99.3	83.5	24.3	13.8	6.96
MAX	49	1,230	647	4,070	217	155	380	408	493	87	28	16
MIN	7.0	74	68	66	83	77	78	35	30	7.1	6.0	4.1
IN.	0.11	1.66	1.55	4.96	0.96	0.92	1.25	0.81	0.66	0.20	0.11	0.06

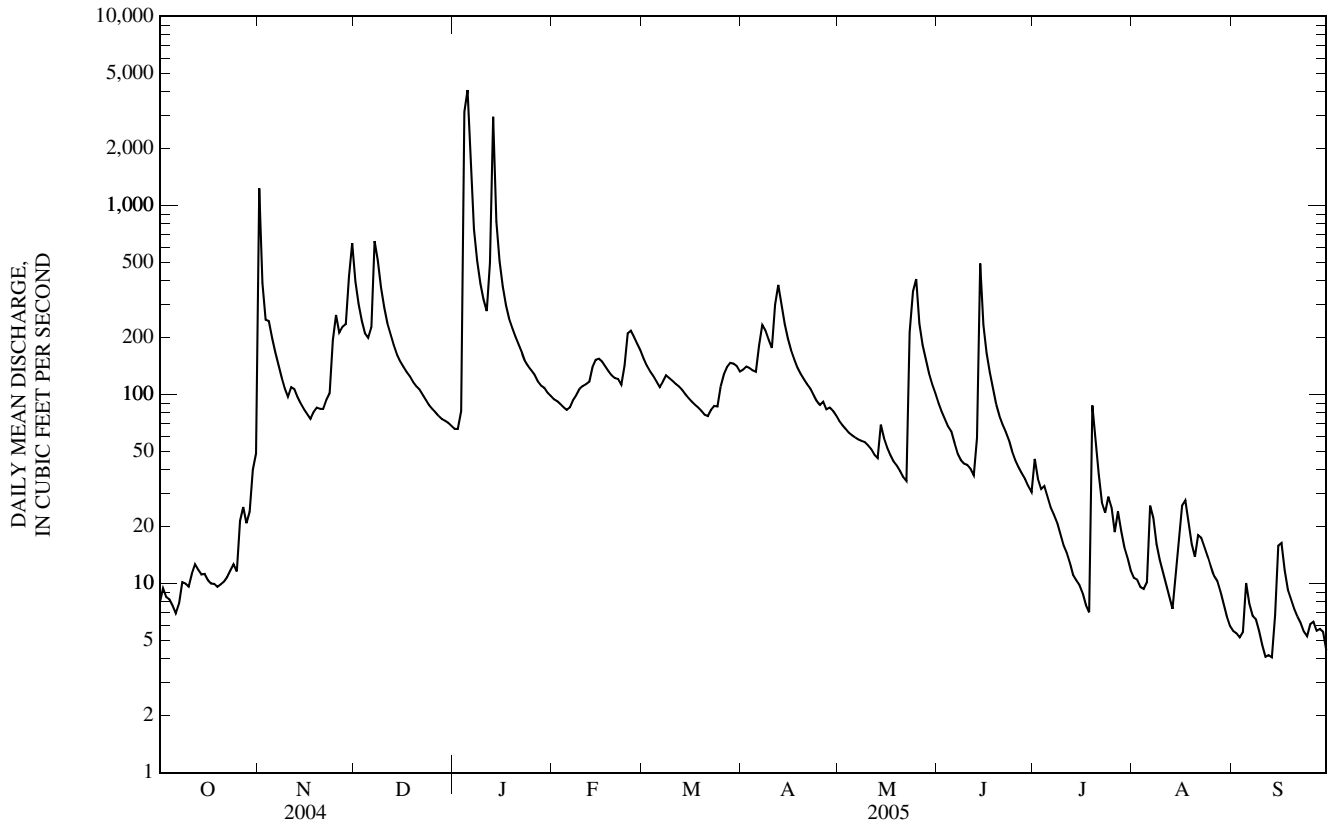
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	19.3	72.1	111	194	166	155	163	206	164	64.7	22.8	10.2
MAX	47.3	210	222	607	401	248	360	546	558	138	40.5	14.3
(WY)	(2002)	(2005)	(2002)	(2005)	(2001)	(2004)	(2004)	(2002)	(2000)	(2000)	(2000)	(2003)
MIN	9.98	10.8	19.0	33.5	60.7	107	37.8	42.8	38.7	24.3	9.52	6.96
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2004)	(2005)	(2001)	(2005)

SUMMARY STATISTICS

	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2000 - 2005
ANNUAL MEAN	133	138	104
HIGHEST ANNUAL MEAN			149
LOWEST ANNUAL MEAN			51.3
HIGHEST DAILY MEAN	3,540	Apr 24	6,020
LOWEST DAILY MEAN	7.0	Oct 6	4.1
ANNUAL SEVEN-DAY MINIMUM	7.6	Sep 24	5.1
MAXIMUM PEAK FLOW	---		8,120
MAXIMUM PEAK STAGE	---		13.33
INSTANTANEOUS LOW FLOW	---		3.6
ANNUAL RUNOFF (INCHES)	12.87		13.26
10 PERCENT EXCEEDS	254		202
50 PERCENT EXCEEDS	84		50
90 PERCENT EXCEEDS	11		8.4

07188653 BIG SUGAR CREEK NEAR POWELL, MO—Continued



07188653 BIG SUGAR CREEK NEAR POWELL, MO—Continued  
(Ambient Water-Quality Monitoring Network)

PERIOD OF RECORD.--October 2004 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT												
20...	0900	Environmental	5.9	6.6	71	7.5	324	16.7	--	--	--	--
NOV												
01...	0138	Environmental	328	--	--	7.8	266	15.5	150	53.1	4.49	2.33
01...	0241	Environmental	1,220	--	--	7.7	219	15.5	--	--	--	--
01...	0441	Environmental	1,140	--	--	7.6	195	15.5	--	--	--	--
01...	0821	Environmental	2,360	--	--	7.6	195	15.5	--	--	--	--
01...	1221	Environmental	1,710	--	--	7.6	210	15.5	--	--	--	--
02...	0021	Environmental	590	--	--	7.7	263	15.5	--	--	--	--
17...	0900	Environmental	74	9.4	94	7.5	341	14.3	170	58.9	5.17	2.30
DEC												
07...	1015	Environmental	775	8.9	85	7.6	282	12.0	--	--	--	--
JAN												
12...	0920	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
12...	0930	Environmental	248	9.4	92	7.9	280	12.2	150	53.7	3.25	2.08
FEB												
09...	1020	Environmental	108	12.0	103	7.6	295	7.6	--	--	--	--
MAR												
23...	0900	Environmental	88	10.4	96	7.4	297	9.7	--	--	--	--
APR												
19...	1345	Environmental	129	11.1	116	7.9	305	15.6	--	--	--	--
MAY												
24...	1308	Environmental	360	--	--	7.5	254	19.6	130	46.3	3.17	2.07
24...	1414	Environmental	492	--	--	7.6	241	20.9	--	--	--	--
24...	1654	Environmental	581	--	--	7.7	250	19.4	--	--	--	--
24...	2154	Environmental	472	--	--	7.7	264	19.1	--	--	--	--
24...	2354	Environmental	585	--	--	7.7	272	19.1	--	--	--	--
25...	0754	Environmental	442	--	--	7.7	277	19.0	--	--	--	--
26...	1230	Environmental	234	8.0	86	7.9	307	17.0	150	54.1	3.84	2.07
JUN												
29...	1040	Environmental	34	8.6	106	7.9	306	24.1	--	--	--	--
JUL												
27...	1315	Environmental	24	7.3	92	7.7	291	24.8	140	51.8	3.61	2.28
AUG												
23...	1405	Environmental	16	9.5	122	8.0	293	26.0	--	--	--	--
SEP												
21...	1210	Environmental	7.0	6.1	76	8.0	295	24.4	--	--	--	--
21...	1211	Replicate	--	6.3	78	8.0	296	24.4	--	--	--	--

## 07188653 BIG SUGAR CREEK NEAR POWELL, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO <sub>3</sub> (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)	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)
OCT 20...	--	--	--	--	--	--	--	--	<.10	<.04	1.35	<.008	E.01n
NOV 01...	2.97	--	--	--	--	5.25	<.1	6.0	.21	E.02n	1.64	E.006n	.05
01...	--	--	--	--	--	--	--	--	1.7	E.02n	1.56	.008	.19
01...	--	--	--	--	--	--	--	--	1.0	E.02n	1.62	.008	.14
01...	--	--	--	--	--	--	--	--	2.0	E.02n	2.82	.013	.21
01...	--	--	--	--	--	--	--	--	1.0	E.02n	3.52	.011	.19
02...	--	--	--	--	--	--	--	--	.47	E.02n	4.01	E.006n	.08
17...	3.38	147	148	181	<1	5.98	E.1n	6.9	<.10	<.04	2.78	<.008	E.01n
DEC 07...	--	--	--	--	--	--	--	--	.43	<.04	3.23	<.008	.03
JAN 12...	.25	--	--	--	--	E.18n	<.1	<.2	<.10	<.04	<.06	<.008	<.02
12...	3.09	119	121	148	<1	5.34	<.1	6.2	E.10n	<.04	3.63	<.008	.02
FEB 09...	--	--	--	--	--	--	--	--	E.08n	<.04	2.87	<.008	E.01n
MAR 23...	--	--	--	--	--	--	--	--	.12	<.04	2.37	E.005n	<.02
APR 19...	--	--	--	--	--	--	--	--	E.09n	<.04	1.97	<.008	<.02
MAY 24...	2.31	--	--	--	--	2.80	<.1	5.3	.74	<.04	1.34	E.004n	.03
24...	--	--	--	--	--	--	--	--	.58	<.04	1.16	<.008	.02
24...	--	--	--	--	--	--	--	--	.33	<.04	1.16	<.008	E.01n
24...	--	--	--	--	--	--	--	--	.31	<.04	1.34	<.008	.03
24...	--	--	--	--	--	--	--	--	.23	<.04	1.36	<.008	.03
25...	--	--	--	--	--	--	--	--	.20	<.04	1.34	<.008	.03
26...	2.89	143	143	174	<1	3.90	<.1	6.3	.11	<.04	1.57	<.008	<.02
JUN 29...	--	--	--	--	--	--	--	--	.11	<.04	1.21	<.008	E.01n
JUL 27...	3.08	126	128	156	<1	6.44	<.1	5.5	.11	<.04	1.10	<.008	<.02
AUG 23...	--	--	--	--	--	--	--	--	E.09n	<.04	.68	<.008	E.01n
SEP 21...	--	--	--	--	--	--	--	--	.10+	<.04	.53	<.008	E.01n
21...	--	--	--	--	--	--	--	--	.11	<.04	.54	<.008	E.01n

## 07188653 BIG SUGAR CREEK NEAR POWELL, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7 $\mu$ MF col/ 100 mL (31625)	Sus- pended sediment concentration mg/L (80154)
OCT				
20...	.018	67	78k	40
NOV				
01...	.063	1,600	5,200	41
01...	.49o	--	--	509
01...	.28o	--	--	196
01...	.53o	16,000	27,000	883
01...	.34o	--	--	265
02...	.128	--	--	82
17...	.021	69	74k	--
DEC				
07...	.106	3,200	2,800	87
JAN				
12...	<.004	--	--	--
12...	.040	250	270	1
FEB				
09...	.017	40	70	1
MAR				
23...	.010	40k	25k	2
APR				
19...	.018	5k	26	3
MAY				
24...	.176	7,000	22,000	172
24...	.141	--	--	135
24...	.078	--	--	47
24...	.080	--	--	27
24...	.069	--	--	33
25...	.060	--	--	18
26...	.032	120	160k	9
JUN				
29...	.023	39	58	3
JUL				
27...	.026	32	67k	3
AUG				
23...	.019	14k	24	4
SEP				
21...	.022+	140	210	3
21...	.020	160	220	--

## Remark codes used in this table:

< -- Less than.  
E -- Estimated.

## Value qualifier codes used in this table:

+ -- Improper preservation  
d -- Diluted sample: method hi range exceeded  
k -- Counts outside acceptable range  
n -- Below the LRL and above the LT-MDL  
o -- Result determined by alternate method

07188760 BIG SUGAR CREEK NEAR PINEVILLE, MO  
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°36'57", long 94°10'56", in NW ¼, NW ¼, SE ¼, sec.34, T.22 N., R.32 W., McDonald County, Hydrologic Unit 11070208, East on state route W in Pineville to Eighth Street, south on Eighth Street to Sugar Beach Campground.

DRAINAGE AREA.-- 278 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2004 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 20...	1245	Environmental	15	8.6	95	7.8	290	18.5	--	--	--	--
NOV 17...	1425	Environmental	111	10.3	108	7.7	297	16.4	150	52.8	3.84	1.88
NOV 17...	1426	Replicate	--	10.6	111	7.7	298	16.4	150	52.8	3.73	1.89
DEC 08...	1300	Environmental	e1,060	9.9	93	7.3	276	11.4	--	--	--	--
JAN 12...	1330	Environmental	577	10.7	103	7.7	245	11.7	130	48.6	2.80	1.69
FEB 08...	1430	Environmental	199	14.1	123	7.6	272	8.5	--	--	--	--
MAR 22...	1500	Environmental	133	11.0	106	7.5	202	11.9	--	--	--	--
APR 20...	1100	Environmental	250	11.5	121	7.8	274	16.1	--	--	--	--
MAY 25...	1445	Environmental	e1,100	8.7	96	7.9	256	18.2	120	45.4	2.55	1.69
JUN 28...	1500	Environmental	48	9.5	125	7.3	277	27.8	--	--	--	--
JUL 27...	0910	Environmental	34	4.6	57	7.5	276	24.5	140	50.8	3.16	2.09
AUG 22...	1640	Environmental	21	8.4	111	7.9	285	27.6	--	--	--	--
SEP 21...	0900	Environmental	13	4.0	50	7.2	293	24.2	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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)	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)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 20...	--	--	--	--	--	--	--	--	<.10	<.04	.55	<.008	<.02
NOV 17...	2.79	132	132	161	<1	5.02	<.1	5.9	<.10	<.04	1.83	<.008	<.02
NOV 17...	2.84	--	--	--	--	5.05	<.1	5.9	<.10	<.04	1.77	<.008	<.02
DEC 08...	--	--	--	--	--	--	--	--	.12	<.04	2.35	<.008	E.01n
JAN 12...	2.62	108	108	132	<1	4.75	<.1	5.7	.11	<.04	2.63	<.008	<.02
FEB 08...	--	--	--	--	--	--	--	--	E.07n	<.04	2.12	<.008	<.02
MAR 22...	--	--	--	--	--	--	--	--	.11	<.04	1.43	<.008	<.02
APR 20...	--	--	--	--	--	--	--	--	E.08n	<.04	1.26	<.008	<.02
MAY 25...	2.31	117	117	142	<1	2.67	<.1	5.1	.18	<.04	1.00	<.008	<.02
JUN 28...	--	--	--	--	--	--	--	--	E.10n	<.04	.66	<.008	<.02
JUL 27...	2.75	129	130	159	<1	3.94	<.1	4.9	E.05+n	<.04	.42	<.008	<.02
AUG 22...	--	--	--	--	--	--	--	--	.12	<.04	.20	<.008	<.02
SEP 21...	--	--	--	--	--	--	--	--	E.09n	<.04	.15	<.008	<.02

07188760 BIG SUGAR CREEK NEAR PINEVILLE, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7 $\mu$ MF col/ 100 mL (31625)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 20...	.005	7k	10k	36
NOV 17...	.010	5k	13k	--
17...	.011	11k	12k	--
DEC 08...	.027	250	160k	16
JAN 12...	.022	30k	110k	2
FEB 08...	.010	3k	20	3
MAR 22...	.006	10k	7k	3
APR 20...	.008	8k	16k	2
MAY 25...	.042	150	300	30
JUN 28...	.011	8k	8k	3
JUL 27...	.008+	140	380k	7
AUG 22...	.010	22	27	16
SEP 21...	.009	38	46	16

## Remark codes used in this table:

- e -- Estimated discharge value.
- < -- Less than.
- E -- Estimated.

## Value qualifier codes used in this table:

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

07188824 LITTLE SUGAR CREEK NEAR CAVERNA, MO  
(Ambient Water-Quality Monitoring Network)

LOCATION.--Lat 36°31'43", long 94°17'15", in NW ¼, NE ¼, SE ¼, sec.21, T.21 N., R.31 W., McDonald County, Hydrologic Unit 11070208, 2.7 miles north of Caverna on US highway 71, east on Little Missouri Road, 0.7 miles to bridge.

DRAINAGE AREA.-- 152 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2004 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 20...	1030	Environmental	29	7.3	79	8.0	372	17.3	--	--	--	--
NOV 17...	1045	Environmental	76	9.8	102	7.7	349	15.7	160	59.3	2.58	3.08
DEC 07...	1350	Environmental	769	9.8	96	7.3	281	13.3	--	--	--	--
JAN 12...	1110	Environmental	336	10.4	103	7.8	268	12.8	140	52.1	1.93	2.22
FEB 09...	0910	Environmental	151	11.8	102	7.7	294	7.9	--	--	--	--
MAR 23...	1015	Environmental	117	10.4	95	7.8	302	9.9	--	--	--	--
APR 20...	0920	Environmental	163	8.9	93	7.9	304	15.7	--	--	--	--
MAY 26...	0930	Environmental	164	7.8	84	7.7	307	17.6	140	52.2	2.05	2.66
JUN 29...	0910	Environmental	48	6.8	82	7.9	335	23.2	--	--	--	--
JUL 27...	1050	Environmental	39	6.1	74	7.8	347	23.8	150	55.5	2.50	3.49
JUL 27...	1051	Replicate	--	6.0	74	7.8	354	23.6	150	55.5	2.49	3.48
AUG 23...	1030	Environmental	49	7.0	86	8.0	344	23.8	--	--	--	--
SEP 21...	1040	Environmental	25	7.4	90	7.6	358	23.4	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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)	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)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 20...	--	--	--	--	--	--	--	--	E.08n	<.04	1.80	<.008	.32
NOV 17...	7.96	144	144	176	<1	9.37	E.1n	10.0	E.06n	E.02n	2.23	E.006n	.23
DEC 07...	--	--	--	--	--	--	--	--	.31	<.04	2.18	E.006n	.06
JAN 12...	4.99	113	113	138	<1	6.43	<.1	7.7	.14	<.04	2.76	<.008	.03
FEB 09...	--	--	--	--	--	--	--	--	.16	<.04	2.23	<.008	.07
MAR 23...	--	--	--	--	--	--	--	--	.16	<.04	2.02	E.007n	.11
APR 20...	--	--	--	--	--	--	--	--	.12	<.04	1.93	<.008	.10
MAY 26...	6.77	126	126	154	<1	7.45	E.1n	7.7	.15	<.04	1.52	E.004n	.18
JUN 29...	--	--	--	--	--	--	--	--	.16	<.04	1.19	E.007n	.18
JUL 27...	11.5	134	136	164	<1	13.5	.1	12.1	.14	<.04	.89	E.006n	.25
JUL 27...	11.4	--	--	--	--	13.2	E.1n	12.2	.14	<.04	.90	E.005n	.26
AUG 23...	--	--	--	--	--	--	--	--	.15	<.04	1.09	<.008	.28
SEP 21...	--	--	--	--	--	--	--	--	.18	<.04	1.17	E.005n	.34



07188824 LITTLE SUGAR CREEK NEAR CAVERNA, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT				
20...	.33o	41	63k	31
NOV				
17...	.27o	51	35	1
DEC				
07...	.159	900	1,500	44
JAN				
12...	.098	87k	160k	7
FEB				
09...	.089	41k	52	2
MAR				
23...	.158	72	200k	3
APR				
20...	.129	20k	74	4
MAY				
26...	.22o	400	480	11
JUN				
29...	.19o	59	71k	3
JUL				
27...	.29o	47	110	4
27...	.29o	52	220	4
AUG				
23...	.30o	110k	190	5
SEP				
21...	.34o	72	36	2

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

Value qualifier codes used in this table:

k -- Counts outside acceptable range  
n -- Below the LRL and above the LT-MDL  
o -- Result determined by alternate method

## 07188838 LITTLE SUGAR CREEK NEAR PINEVILLE, MO

LOCATION.--Lat 36°35'02", long 94°22'23", NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 3, T.21 N., R.32 W., McDonald County, Hydrologic Unit 11070208, on right upstream bridge pier of State Highway K, 1.0 mi southeast of Pineville.

DRAINAGE AREA.--195 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 2004 to current year.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	2,020	626	87	149	227	195	118	88	64	34	27
2	24	950	517	87	146	209	253	112	80	63	32	27
3	22	640	430	128	144	193	249	107	73	55	30	26
4	22	589	363	3,580	137	180	235	102	69	52	29	86
5	22	453	342	7,140	130	167	228	98	67	49	28	72
6	22	364	404	3,360	136	155	346	96	66	46	34	52
7	23	299	788	1,390	165	163	464	93	64	43	40	43
8	26	251	793	870	168	176	473	92	59	41	34	38
9	28	212	622	664	179	166	395	92	58	39	31	34
10	28	184	513	547	185	157	328	89	54	37	29	31
11	30	180	440	475	182	147	356	84	51	36	28	29
12	33	185	380	788	182	142	483	80	53	35	27	27
13	33	158	327	4,230	208	133	434	76	87	35	26	26
14	32	138	282	1,640	218	126	376	120	432	33	29	30
15	32	127	248	905	213	120	328	110	310	33	50	40
16	32	118	224	662	206	114	292	92	221	32	67	53
17	30	110	201	525	195	112	264	83	181	31	75	43
18	30	121	187	443	185	109	241	76	146	31	60	37
19	30	138	171	391	177	105	222	71	119	55	50	34
20	30	132	156	350	171	101	205	67	101	35	44	32
21	30	125	145	318	170	101	193	63	89	31	51	30
22	30	142	132	286	161	115	186	62	79	30	47	28
23	32	149	122	256	197	140	176	285	72	30	43	28
24	35	280	114	236	299	139	155	346	65	35	41	27
25	34	395	109	221	292	154	146	283	59	36	38	26
26	42	333	104	206	278	172	152	226	57	35	37	27
27	70	331	98	191	262	180	144	180	58	43	35	25
28	65	393	96	179	248	191	113	151	53	49	34	24
29	100	489	93	173	---	191	82	127	50	47	32	26
30	110	735	93	166	---	186	111	109	47	41	31	25
31	100	---	92	157	---	177	---	98	---	37	30	---
MEAN	38.7	358	297	989	192	153	261	122	100	40.6	38.6	35.1
MAX	110	2,020	793	7,140	299	227	483	346	432	64	75	86
MIN	22	110	92	87	130	101	82	62	47	30	26	24
IN.	0.23	2.05	1.76	5.85	1.03	0.91	1.49	0.72	0.57	0.24	0.23	0.20

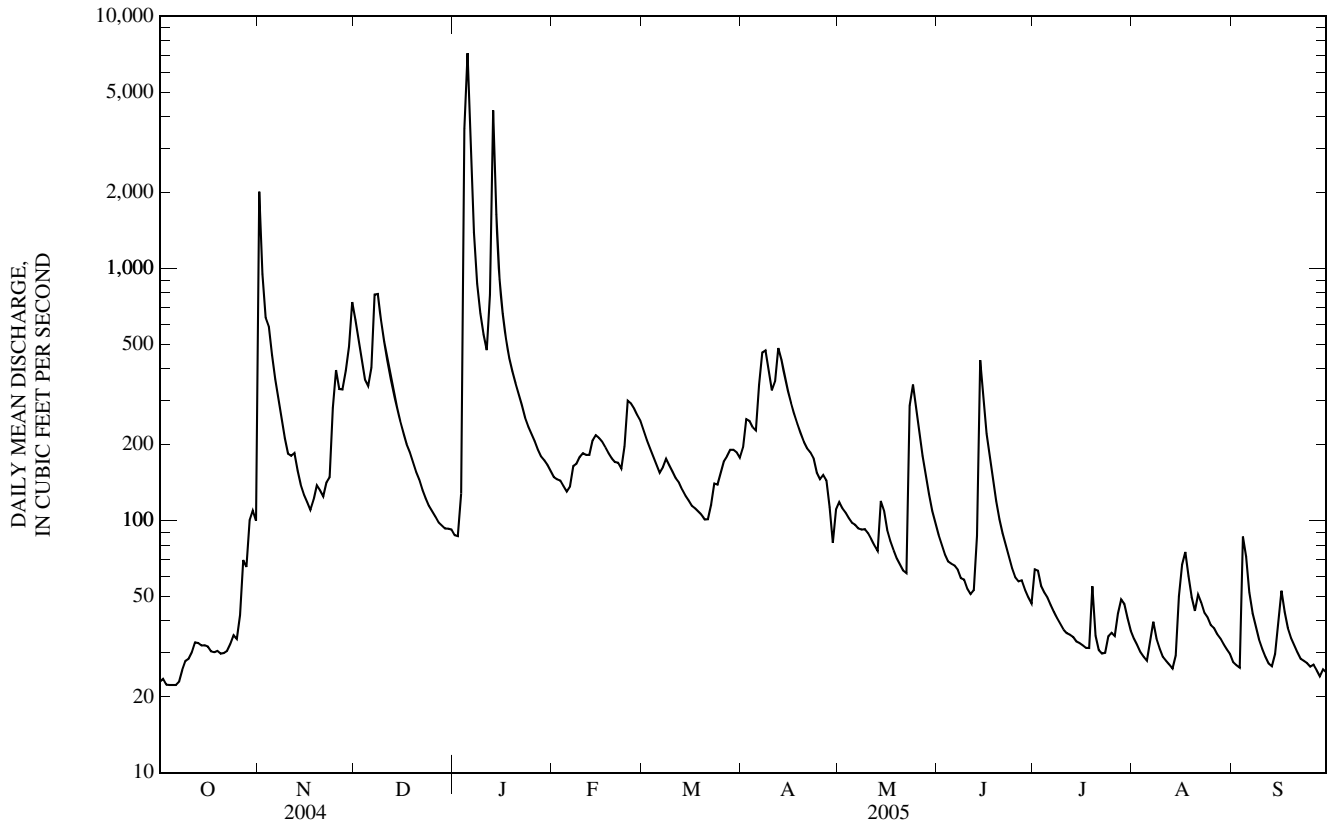
## SUMMARY STATISTICS

ANNUAL MEAN  
HIGHEST DAILY MEAN  
LOWEST DAILY MEAN  
ANNUAL SEVEN-DAY MINIMUM  
MAXIMUM PEAK FLOW  
MAXIMUM PEAK STAGE  
INSTANTANEOUS LOW FLOW  
ANNUAL RUNOFF (INCHES)  
10 PERCENT EXCEEDS  
50 PERCENT EXCEEDS  
90 PERCENT EXCEEDS

## FOR 2005 WATER YEAR

219  
7,140 Jan 5  
22 Oct 3-6  
23 Oct 1  
8,290 Jan 5  
13.49 Jan 5  
21 Oct 6  
15.27  
399  
110  
30

07188838 LITTLE SUGAR CREEK NEAR PINEVILLE, MO—Continued



07188838 LITTLE SUGAR CREEK NEAR PINEVILLE, MO--Continued  
(Ambient Water-Quality Monitoring Network)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2004 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 20...	1425	Environmental	30	8.6	94	7.6	353	18.4	--	--	--	--
NOV 17...	1610	Environmental	100	9.6	100	7.9	346	16.6	160	57.5	3.74	2.85
DEC 08...	1100	Environmental	801	10.0	94	7.4	295	11.4	--	--	--	--
JAN 11...	1530	Environmental	470	9.7	93	7.7	279	12.0	140	50.3	2.94	2.12
FEB 08...	1330	Environmental	169	13.3	118	7.4	308	9.0	--	--	--	--
MAR 22...	1315	Environmental	118	10.6	106	7.7	293	12.9	--	--	--	--
MAR 22...	1316	Replicate	--	10.5	104	7.7	292	12.4	--	--	--	--
APR 20...	1300	Environmental	202	11.7	126	8.0	297	17.3	--	--	--	--
MAY 25...	1315	Environmental	293	9.1	102	8.1	304	19.5	140	50.1	3.28	2.64
JUN 28...	1425	Environmental	52	8.4	108	7.9	315	26.1	--	--	--	--
JUL 26...	1300	Environmental	35	7.8	103	7.8	313	27.6	150	52.9	3.45	3.10
AUG 23...	0915	Environmental	43	7.0	88	7.9	349	25.6	--	--	--	--
SEP 21...	1000	Environmental	30	7.1	89	8.0	335	24.8	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd incrm. titr., field, mg/L as CaCO <sub>3</sub> (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)	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)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT 20...	--	--	--	--	--	--	--	--	E.09n	<.04	1.24	<.008	.10
NOV 17...	7.30	143	142	173	<1	8.65	E.1n	10.4	<.10	<.04	1.97	<.008	.13
DEC 08...	--	--	--	--	--	--	--	--	.16	<.04	2.31	<.008	.07
JAN 11...	4.58	108	110	132	<1	8.22	E.1n	8.0	.15	<.04	2.75	<.008	.07
FEB 08...	--	--	--	--	--	--	--	--	E.09n	<.04	2.20	<.008	.07
MAR 22...	--	--	--	--	--	--	--	--	.18	<.04	1.75	.008	.05
MAR 22...	--	--	--	--	--	--	--	--	.16	<.04	1.75	.008	.07
APR 20...	--	--	--	--	--	--	--	--	.10	<.04	1.56	<.008	.08
MAY 25...	6.47	128	128	156	<1	7.05	E.1n	8.7	.17	<.04	1.39	E.006n	.15
JUN 28...	--	--	--	--	--	--	--	--	.14	<.04	.66	.008	.09
JUL 26...	8.20	135	136	166	<1	11.0	E.1n	10.2	.19	<.04	.33	E.006n	.03
AUG 23...	--	--	--	--	--	--	--	--	.23	<.04	.47	E.005n	.10
SEP 21...	--	--	--	--	--	--	--	--	.15	<.04	.28	E.004n	.08

## 07188838 LITTLE SUGAR CREEK NEAR PINEVILLE, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7 $\mu$ MF col/ 100 mL (31625)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 20...	.123	33	38	34
NOV 17...	.168	18k	26	--
DEC 08...	.100	570	370	17
JAN 11...	.097	120k	83k	14
FEB 08...	.082	29	58k	3
MAR 22...	.109	18k	38k	9
22...	.110	7k	40k	5
APR 20...	.103	23	31	4
MAY 25...	.194	460	790k	7
JUN 28...	.122	11k	15k	6
JUL 26...	.119	11k	83k	6
AUG 23...	.150	140	160	7
SEP 21...	.113	56	100	4

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

Value qualifier codes used in this table:

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

## 0718885 INDIAN CREEK NEAR LANAGAN, MO

LOCATION.--Lat 36°35'57", long 94°26'59", 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 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 24, 2000 to current year.

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

REMARKS.--No estimated daily discharges. Water-discharge records good except for discharges over 1,000 ft<sup>3</sup>/s, which are fair. U.S.G.S. satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	2,200	625	151	256	278	168	120	162	78	39	30
2	38	963	522	151	250	258	175	116	147	71	39	29
3	39	599	444	168	242	246	168	111	134	66	37	29
4	39	516	386	1,250	232	235	163	107	124	67	36	29
5	38	415	362	9,720	226	224	163	104	117	65	36	30
6	37	333	420	4,200	229	213	211	102	109	60	37	28
7	39	272	861	1,670	240	205	322	100	102	58	36	27
8	43	226	895	1,210	249	198	340	100	97	55	35	27
9	42	194	719	962	261	192	311	100	94	52	34	26
10	42	172	602	812	262	185	287	97	94	51	33	26
11	44	177	509	710	263	179	269	94	88	49	32	25
12	46	169	444	714	264	175	249	91	86	50	31	25
13	45	159	391	3,880	282	170	231	88	405	50	31	25
14	44	149	346	1,580	304	164	214	97	335	49	43	28
15	43	140	310	1,110	311	160	198	95	253	48	66	55
16	42	132	287	896	303	157	185	90	208	47	64	68
17	41	124	267	756	286	153	176	88	170	45	53	58
18	41	128	251	667	271	152	168	85	141	44	49	49
19	40	123	235	605	257	151	161	84	120	52	43	43
20	41	118	222	549	247	150	155	81	106	88	39	39
21	41	115	214	504	243	149	151	78	95	66	38	37
22	42	118	202	460	229	153	150	77	87	57	37	35
23	46	123	191	419	236	157	142	429	81	54	37	34
24	44	181	182	394	280	152	134	818	77	50	37	33
25	42	337	175	374	306	156	132	906	74	46	36	32
26	45	350	171	353	311	151	138	550	71	44	34	31
27	48	374	164	328	305	152	130	405	68	53	33	31
28	60	434	159	311	295	152	132	322	65	49	32	31
29	56	461	156	301	---	152	131	262	63	45	31	31
30	65	735	154	284	---	152	126	219	60	42	31	30
31	97	---	153	270	---	149	---	186	---	40	30	---
MEAN	45.5	351	355	1,154	266	178	189	200	128	54.5	38.4	34.0
MAX	97	2,200	895	9,720	311	278	340	906	405	88	66	68
MIN	37	115	153	151	226	149	126	77	60	40	30	25
IN.	0.22	1.64	1.72	5.57	1.16	0.86	0.88	0.97	0.60	0.26	0.19	0.16

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	43.7	110	135	315	265	239	261	412	239	138	49.4	39.4
MAX	52.5	351	355	1,154	679	392	668	1,174	519	316	70.0	47.2
(WY)	(2002)	(2005)	(2005)	(2005)	(2001)	(2004)	(2004)	(2002)	(2000)	(2004)	(2004)	(2002)
MIN	30.8	32.7	31.9	43.3	70.5	137	99.8	67.2	76.4	43.8	28.7	32.7
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2001)	(2003)	(2003)	(2003)	(2001)

## SUMMARY STATISTICS

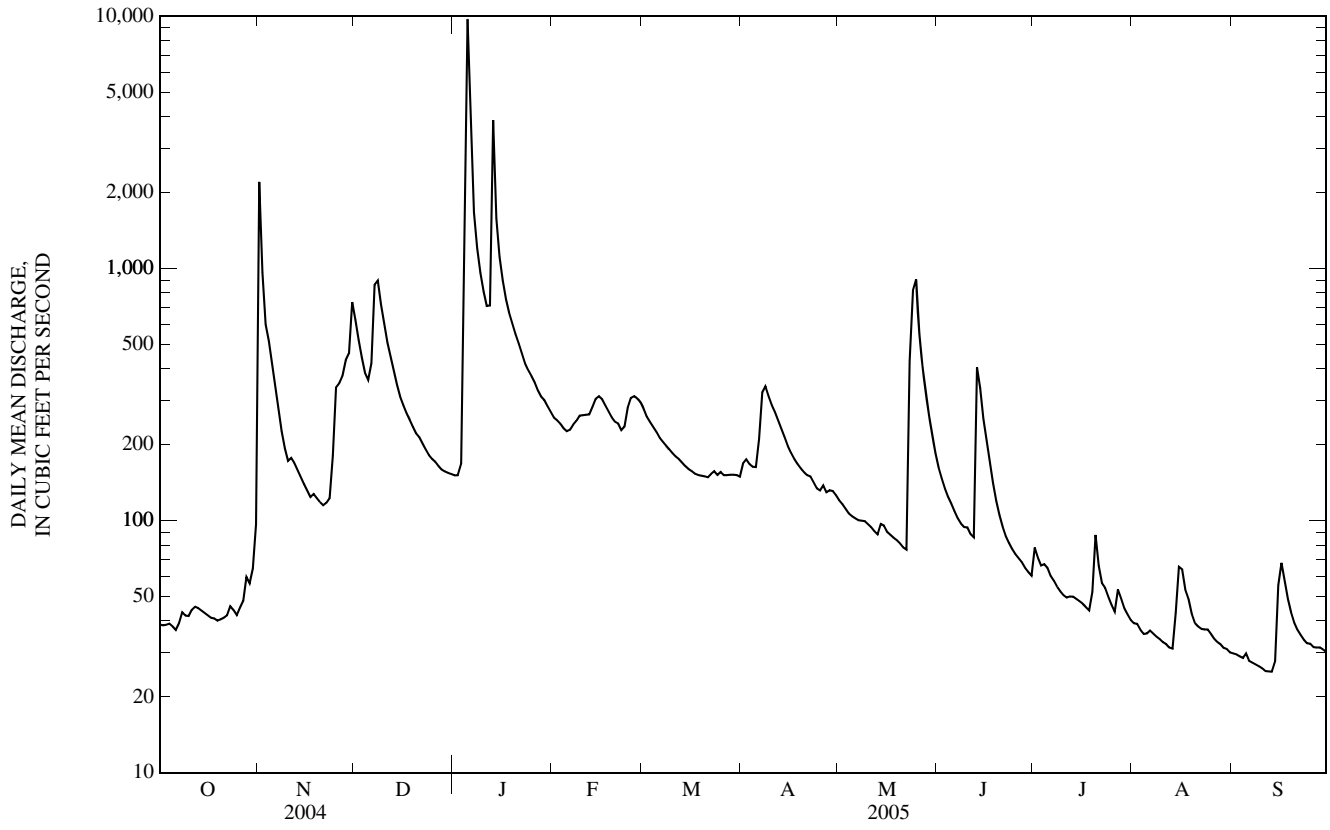
## FOR 2004 CALENDAR YEAR

## FOR 2005 WATER YEAR

## WATER YEARS 2000 - 2005

ANNUAL MEAN	258	250	181
HIGHEST ANNUAL MEAN			250
LOWEST ANNUAL MEAN			74.9
HIGHEST DAILY MEAN	7,870	Apr 24	9,720
LOWEST DAILY MEAN	37	Oct 6	25
ANNUAL SEVEN-DAY MINIMUM	38	Sep 30	26
MAXIMUM PEAK FLOW	---		12,000
MAXIMUM PEAK STAGE	---		11.95
INSTANTANEOUS LOW FLOW	---		24
ANNUAL RUNOFF (INCHES)	14.72	14.21	10.27
10 PERCENT EXCEEDS	556	444	340
50 PERCENT EXCEEDS	146	140	82
90 PERCENT EXCEEDS	44	36	33

07188885 INDIAN CREEK NEAR LANAGAN, MO—Continued



0718885 INDIAN CREEK NEAR LANAGAN, MO—Continued  
(Ambient Water-Quality Monitoring Network)

PERIOD OF RECORD.--October 2004 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT												
19...	1545	Environmental	40	10.3	113	8.1	315	18.1	--	--	--	--
NOV												
01...	0115	Environmental	326	--	--	7.8	234	15.2	120	39.9	3.78	2.81
01...	0116	Replicate	342	--	--	7.8	234	15.2	120	40.0	3.78	2.83
01...	0218	Environmental	1,020	--	--	7.8	163	15.2	--	--	--	--
01...	0418	Environmental	1,520	--	--	7.7	178	15.2	--	--	--	--
01...	1158	Environmental	3,210	--	--	7.6	160	15.2	--	--	--	--
01...	2358	Environmental	1,560	--	--	7.6	198	15.2	--	--	--	--
16...	1600	Environmental	130	9.8	99	7.5	319	15.0	150	58.1	2.24	2.19
DEC												
06...	1520	Environmental	424	10.3	101	7.7	285	12.5	--	--	--	--
JAN												
11...	1300	Environmental	700	9.5	92	7.8	258	12.5	130	47.6	1.82	2.25
FEB												
08...	1220	Environmental	248	12.9	116	7.8	302	9.4	--	--	--	--
MAR												
22...	1200	Environmental	152	10.4	102	7.7	296	12.3	--	--	--	--
APR												
19...	1200	Environmental	160	9.1	96	7.9	284	16.2	--	--	--	--
MAY												
23...	1150	Environmental	437	--	--	7.4	255	22.0	120	46.0	1.77	2.04
23...	1335	Environmental	662	--	--	7.6	257	22.5	--	--	--	--
23...	1535	Environmental	613	--	--	7.6	255	22.5	--	--	--	--
23...	2035	Environmental	567	--	--	7.5	237	22.4	--	--	--	--
24...	0235	Environmental	495	--	--	7.5	256	21.3	--	--	--	--
25...	0845	Blank	--	--	--	--	--	--	--	<.02	<.008	<.16
25...	1030	Environmental	888	8.2	85	7.7	220	15.7	100	38.1	1.43	2.27
JUN												
28...	1340	Environmental	65	9.2	118	8.1	282	26.7	--	--	--	--
JUL												
26...	1200	Environmental	46	8.4	111	7.8	273	27.8	130	50.3	1.96	2.14
AUG												
22...	1530	Environmental	37	8.7	113	8.0	292	27.1	--	--	--	--
SEP												
21...	0815	Environmental	37	5.6	68	7.5	287	23.5	--	--	--	--



## 07188885 INDIAN CREEK NEAR LANAGAN, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO <sub>3</sub> (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)	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)
OCT 19...	--	--	--	--	--	--	--	--	E.07n	<.04	2.04	<.008	E.01n
NOV 01...	3.01	--	--	--	--	5.14	E.1n	28.3	1.0	E.02n	1.17	.021	.04
01...	3.03	--	--	--	--	5.13	E.1n	28.3	1.1+	<.04	1.17	.021	.04
01...	--	--	--	--	--	--	--	--	1.6	E.02n	1.08	.011	.06
01...	--	--	--	--	--	--	--	--	1.0	E.02n	1.33	E.007n	.08
01...	--	--	--	--	--	--	--	--	2.2	E.02n	1.60	.008	.21
01...	--	--	--	--	--	--	--	--	.82	E.02n	2.48	.010	.22
16...	4.43	134	133	162	<1	7.05	<.1	4.8	<.10	<.04	3.40	<.008	E.01n
DEC 06...	--	--	--	--	--	--	--	--	.14	<.04	4.17	<.008	.02
JAN 11...	3.96	96	96	117	<1	6.51	<.1	5.2	.18	<.04	4.55	<.008	.02
FEB 08...	--	--	--	--	--	--	--	--	E.06n	<.04	3.67	<.008	E.01n
MAR 22...	--	--	--	--	--	--	--	--	.13	<.04	3.21	.008	<.02
APR 19...	--	--	--	--	--	--	--	--	.12	<.04	2.14	<.008	<.02
MAY 23...	3.90	--	--	--	--	5.06	<.1	4.9	.42	<.04	1.99	E.006n	.04
23...	--	--	--	--	--	--	--	--	.40	E.02n	2.05	E.005n	.02
23...	--	--	--	--	--	--	--	--	.36	E.02n	2.06	E.005n	.04
23...	--	--	--	--	--	--	--	--	.65	E.02n	2.10	.009	.12
24...	--	--	--	--	--	--	--	--	.33	<.04	2.25	E.004n	.05
25...	<.20	--	--	--	--	<.20	<.1	<.2	<.10	<.04	<.06	<.008	<.02
25...	2.84	92	92	112	<1	3.64	<.1	4.6	.32	<.04	1.97	<.008	.04
JUN 28...	--	--	--	--	--	--	--	--	.12	<.04	1.70	E.004n	E.01n
JUL 26...	4.48	119	119	145	<1	8.29	<.1	3.8	E.10n	<.04	1.49	E.005n	<.02
AUG 22...	--	--	--	--	--	--	--	--	.11	<.04	1.24	<.008	E.01n
SEP 21...	--	--	--	--	--	--	--	--	.14	<.04	1.20	E.005n	E.02n

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7 $\mu$ MF col/ 100 mL (31625)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT				
19...	.026	38	39	23
NOV				
01...	1.03o	11,000k	25,000	2,700
01...	.69+o	--	--	--
01...	.55o	--	--	860
01...	.26o	--	--	339
01...	.61o	10,000k	27,000	656
01...	.35o	--	--	140
16...	.036	30	35	--
DEC				
06...	.034	120	110	4
JAN				
11...	.056	150	200	19
FEB				
08...	.021	50	98	2
MAR				
22...	.013	<4b	23k	3
APR				
19...	.013	23k	40	2
MAY				
23...	.101	1,500k	4,100	36
23...	.101	--	--	57
23...	.092	--	--	34
23...	.20o	--	--	43
24...	.115	--	--	24
25...	<.004	--	--	--
25...	.108	890k	1300k	39
JUN				
28...	.031	12k	31	4
JUL				
26...	.034	31	36	2
AUG				
22...	.034	40	53	1
SEP				
21...	.031	120	180	6

## Remark codes used in this table:

< -- Less than.  
E -- Estimated.

## Value qualifier codes used in this table:

+ -- Improper preservation  
b -- Value extrapolated at low end  
d -- Diluted sample: method hi range exceeded  
k -- Counts outside acceptable range  
n -- Below the LRL and above the LT-MDL  
o -- Result determined by alternate method

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 mi<sup>2</sup>.

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. Water-discharge records good. U.S. Army Corps of Engineers' satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	6,110	2,710	430	765	1,030	688	533	479	266	117	83
2	83	5,240	1,960	419	748	944	748	515	445	268	110	81
3	81	2,240	1,510	460	735	886	774	501	413	256	104	79
4	80	1,670	1,230	4,650	713	837	766	487	387	236	101	77
5	78	1,350	1,090	28,700	697	792	753	476	368	230	96	96
6	79	1,050	1,180	18,800	693	748	986	465	359	223	93	100
7	86	851	2,410	7,160	723	719	1,480	454	349	214	94	89
8	90	720	3,760	4,350	764	716	1,640	448	334	206	96	84
9	92	629	2,720	3,160	805	709	1,510	441	327	201	94	78
10	93	575	2,040	2,540	833	690	1,320	430	321	192	88	75
11	99	553	1,610	2,170	851	668	1,210	419	313	181	82	73
12	102	536	1,340	2,060	850	642	1,480	407	307	176	79	73
13	104	516	1,150	14,000	882	621	1,530	396	440	171	76	69
14	105	491	1,000	8,580	939	595	1,330	410	699	166	97	73
15	103	463	893	4,370	980	574	1,160	447	1,090	160	121	88
16	101	445	825	3,060	974	558	1,030	458	761	153	160	94
17	100	426	769	2,450	936	542	932	437	588	146	164	102
18	97	426	716	2,090	894	526	859	418	486	136	155	92
19	94	428	672	1,860	853	510	807	402	416	139	143	86
20	95	426	628	1,670	828	496	765	388	375	162	129	81
21	94	419	599	1,520	816	485	723	372	348	172	122	79
22	98	422	575	1,390	790	492	696	356	328	163	122	76
23	102	430	542	1,250	789	511	665	735	317	150	119	73
24	102	492	517	1,150	952	522	628	1,640	302	147	116	72
25	101	883	501	1,080	1,170	543	598	2,980	287	135	111	71
26	105	1,060	490	1,030	1,200	569	596	1,740	269	128	104	68
27	116	1,090	474	963	1,170	611	584	1,150	264	146	98	66
28	133	1,200	459	910	1,110	641	570	876	261	144	94	65
29	146	1,330	448	874	---	660	543	698	252	140	90	62
30	228	2,860	443	834	---	671	528	599	245	133	88	61
31	260	---	435	803	---	659	---	529	---	124	85	---
MEAN	107	1,178	1,151	4,025	874	651	930	665	404	176	108	78.9
MAX	260	6,110	3,760	28,700	1,200	1,030	1,640	2,980	1,090	268	164	102
MIN	78	419	435	419	693	485	528	356	245	124	76	61
IN.	0.14	1.51	1.52	5.32	1.04	0.86	1.19	0.88	0.52	0.23	0.14	0.10

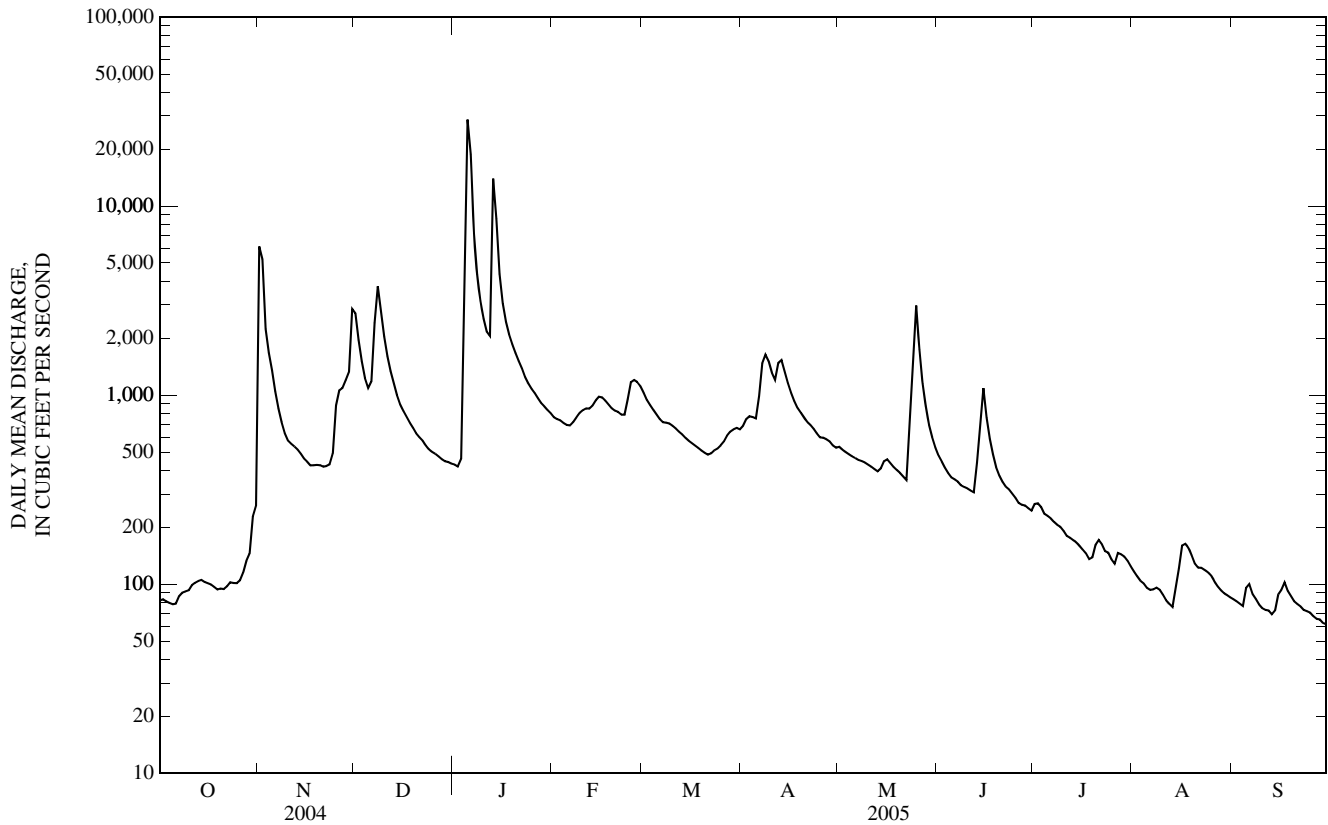
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	403	712	763	730	881	1,326	1,574	1,503	959	486	256	283
MAX	2,938	4,094	3,651	4,025	2,971	5,020	6,119	8,964	4,245	2,565	2,418	2,164
(WY)	(1942)	(1975)	(1993)	(2005)	(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)

ARKANSAS RIVER BASIN

07189000 ELK RIVER NEAR TIFF CITY, MO—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL MEAN	905		865		822	
HIGHEST ANNUAL MEAN					1,881	1993
LOWEST ANNUAL MEAN					135	1954
HIGHEST DAILY MEAN	18,900	Apr 24	28,700	Jan 5	68,600	Apr 19, 1941
LOWEST DAILY MEAN	78	Oct 5	61	Sep 30	5.1	Sep 5, 1954
ANNUAL SEVEN-DAY MINIMUM	81	Sep 30	66	Sep 24	5.6	Sep 2, 1954
MAXIMUM PEAK FLOW	---		32,300	Jan 5	137,000	Apr 19, 1941
MAXIMUM PEAK STAGE	---		20.44	Jan 5	28.40	Apr 19, 1941
ANNUAL RUNOFF (INCHES)	14.13		13.46		12.81	
10 PERCENT EXCEEDS	1,950		1,510		1,720	
50 PERCENT EXCEEDS	480		479		344	
90 PERCENT EXCEEDS	102		88		88	



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 2004 TO SEPTEMBER 2005

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, $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium water, fltrd, mg/L (00925)	Potassium water, fltrd, mg/L (00935)
OCT												
19...	1400	Environmental	94	9.4	103	7.7	331	18.4	--	--	--	--
NOV												
01...	0450	Environmental	740	--	--	7.7	297	15.2	140	51.1	3.84	3.21
01...	0713	Environmental	4,620	--	--	7.5	209	15.2	--	--	--	--
01...	1333	Environmental	8,180	--	--	7.6	190	15.2	--	--	--	--
01...	2133	Environmental	9,720	--	--	7.6	201	15.2	--	--	--	--
02...	0636	Environmental	6,260	--	--	7.6	228	15.2	--	--	--	--
02...	1636	Environmental	3,830	--	--	7.6	253	15.2	--	--	--	--
16...	1330	Environmental	442	10.6	108	7.5	329	15.3	150	55.3	3.76	2.52
DEC												
06...	1400	Environmental	1,180	10.4	101	7.6	299	11.9	--	--	--	--
JAN												
11...	0910	Environmental	2,200	13.1	123	7.9	263	11.3	130	48.3	2.60	2.15
FEB												
07...	1300	Environmental	721	13.6	123	7.7	281	9.9	--	--	--	--
MAR												
21...	1500	Environmental	483	10.5	104	7.8	289	12.8	--	--	--	--
APR												
19...	0900	Environmental	817	8.5	89	7.9	294	16.1	--	--	--	--
MAY												
23...	1906	Environmental	1,130	--	--	7.9	277	21.3	130	47.4	3.09	2.37
23...	2131	Environmental	1,490	--	--	7.6	270	22.3	--	--	--	--
24...	0611	Environmental	1,730	--	--	7.7	262	22.2	--	--	--	--
24...	0940	Environmental	1,720	6.5	74	7.5	270	20.5	130	46.1	2.75	2.41
24...	2211	Environmental	1,500	--	--	7.7	277	22.1	--	--	--	--
25...	0211	Environmental	2,880	--	--	7.7	275	22.0	--	--	--	--
25...	0756	Environmental	3,650	--	--	7.5	239	22.2	--	--	--	--
25...	1456	Environmental	2,880	--	--	7.6	239	22.2	--	--	--	--
JUN												
27...	1340	Environmental	264	10.7	142	8.1	299	28.1	--	--	--	--
JUL												
26...	1015	Environmental	128	6.0	80	7.7	288	28.4	130	47.9	3.56	3.06
AUG												
22...	1355	Environmental	122	8.3	111	8.1	326	28.5	--	--	--	--
SEP												
19...	1155	Environmental	88	7.9	101	7.4	320	25.6	--	--	--	--

## 07189000 ELK RIVER NEAR TIFF CITY, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO <sub>3</sub> (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)
OCT 19...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	1.16
NOV 01...	7.37	--	--	--	--	10.0	E.1n	10.1	--	--	.31	<.04	1.41
01...	--	--	--	--	--	--	--	--	--	--	1.9	E.02n	1.26
01...	--	--	--	--	--	--	--	--	--	--	1.5	E.02n	1.62
01...	--	--	--	--	--	--	--	--	--	--	1.3	E.02n	1.87
02...	--	--	--	--	--	--	--	--	--	--	.78	E.02n	2.40
02...	--	--	--	--	--	--	--	--	--	--	.56	E.02n	2.47
16...	5.58	138	139	169	<1	7.93	<.1	8.2	190d	<10	<.10	<.04	2.54
DEC 06...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	2.93
JAN 11...	3.89	102	102	124	<1	6.04	<.1	6.8	162d	<10	.16	<.04	3.37
FEB 07...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	2.72
MAR 21...	--	--	--	--	--	--	--	--	--	<10	.15	<.04	1.93
APR 19...	--	--	--	--	--	--	--	--	--	<10	.12	<.04	1.44
MAY 23...	5.18	--	--	--	--	6.37	<.1	7.1	--	--	.74	E.02n	1.38
23...	--	--	--	--	--	--	--	--	--	--	.49	E.03n	1.44
24...	--	--	--	--	--	--	--	--	--	--	.40	<.04	1.41
24...	4.03	110	110	134	<1	5.08	<.1	6.4	160	<10	.29	<.04	1.44
24...	--	--	--	--	--	--	--	--	--	--	.27	<.04	1.43
25...	--	--	--	--	--	--	--	--	--	--	.49	<.04	1.62
25...	--	--	--	--	--	--	--	--	--	--	1.3	E.03n	1.31
25...	--	--	--	--	--	--	--	--	--	--	1.1	E.03n	1.26
JUN 27...	--	--	--	--	--	--	--	--	--	<10	.14	<.04	.81
JUL 26...	7.65	121	120	146	<1	10.0	<.1	9.2	180	<10	.21	<.04	.56
AUG 22...	--	--	--	--	--	--	--	--	--	<10	.15	<.04	.51
SEP 19...	--	--	--	--	--	--	--	--	--	<10	.14	<.04	.40

07189000 ELK RIVER NEAR TIFF CITY, MO—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

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 coli-form, M-FC 0.7µ MF col/ 100 mL (31625)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, 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)	Iron, water, fltrd, µg/L (01046)
OCT 19...	<.008	.03	E.04n	E.04n	21	26	--	--	--	--	--	--	--
NOV 01...	E.005n	.10	--	.135	300k	5,000	--	--	--	--	--	--	--
01...	.008	.18	--	.50o	--	--	--	--	--	--	--	--	--
01...	E.007n	.12	--	.38o	--	--	--	--	--	--	--	--	--
01...	E.007n	.14	--	.36o	7,200	13,000k	--	--	--	--	--	--	--
02...	.009	.13	--	.26o	--	--	--	--	--	--	--	--	--
02...	E.006n	.09	--	.165	--	--	--	--	--	--	--	--	--
16...	<.008	.02	.05	.05	22	34	2	15	.3	<.04	<.04	.5	<6
DEC 06...	<.008	.04	.04	.04	130	160	--	--	--	--	--	--	--
JAN 11...	<.008	.03	E.04n	.05	120	290k	E1n	134	.2	<.04	E.03n	.5	<6
FEB 07...	<.008	E.02n	E.02n	E.02n	40	71k	--	--	--	--	--	--	--
MAR 21...	.011	<.02	E.02n	E.03n	<2b	4k	--	--	--	--	--	--	--
APR 19...	E.005n	<.02	E.03n	E.03n	23	29	--	--	--	--	--	--	--
MAY 23...	E.007n	.02	--	.19o	270k	700k	--	--	--	--	--	--	--
23...	.009	.04	--	.122	--	--	--	--	--	--	--	--	--
24...	.011	<.02	--	.126	--	--	--	--	--	--	--	--	--
24...	E.004n	.05	.08	.09	1,000	770k	E1n	119	.8	<.04	E.02n	.8	7
24...	.013	.04	--	.084	--	--	--	--	--	--	--	--	--
25...	.009	.03	--	.133	--	--	--	--	--	--	--	--	--
25...	.037	<.02	--	.32o	--	--	--	--	--	--	--	--	--
25...	E.004n	<.02	--	.34o	--	--	--	--	--	--	--	--	--
JUN 27...	<.008	.02	E.03n	E.02n	10k	24	--	--	--	--	--	--	--
JUL 26...	E.004n	<.02	E.04n	.05	14k	100k	E1n	18	.4	<.04	<.04	.5	<6
AUG 22...	<.008	E.01n	E.04n	.04	7k	21	--	--	--	--	--	--	--
SEP 19...	<.008	E.01n	E.03n	E.03n	38	42	--	--	--	--	--	--	--

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	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)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT								
19...	--	--	--	--	--	--	--	26
NOV								
01...	--	--	--	--	--	--	--	63
01...	--	--	--	--	--	--	--	479
01...	--	--	--	--	--	--	--	470
01...	--	--	--	--	--	--	--	335
02...	--	--	--	--	--	--	--	167
02...	--	--	--	--	--	--	--	125
16...	<.08	E.04n	1.9	E.01n	E.2n	2.4	E2n	--
DEC								
06...	--	--	--	--	--	--	--	3
JAN								
11...	.14	1.49	1.2	<.01	E.4n	.8	3	13
FEB								
07...	--	--	--	--	--	--	--	2
MAR								
21...	--	--	--	--	--	--	--	2
APR								
19...	--	--	--	--	--	--	--	2
MAY								
23...	--	--	--	--	--	--	--	395
23...	--	--	--	--	--	--	--	231
24...	--	--	--	--	--	--	--	97
24...	<.08	.59	1.7	E.01n	1.9	E.6n	E2n	13
24...	--	--	--	--	--	--	--	64
25...	--	--	--	--	--	--	--	101
25...	--	--	--	--	--	--	--	888
25...	--	--	--	--	--	--	--	444
JUN								
27...	--	--	--	--	--	--	--	4
JUL								
26...	E.07n	.19	6.2	<.01	<.4	.7	<2	6
AUG								
22...	--	--	--	--	--	--	--	2
SEP								
19...	--	--	--	--	--	--	--	2

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

Value qualifier codes used in this table:

b -- Value extrapolated at low end  
d -- Diluted sample: method hi range exceeded  
k -- Counts outside acceptable range  
n -- Below the LRL and above the LT-MDL  
o -- Result determined by alternate method



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 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 24, 2000 to current year.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	79	181	18	49	97	30	34	49	13	3.7	0.89
2	2.5	98	134	18	48	87	30	32	43	13	3.4	0.82
3	2.4	78	105	19	46	80	31	29	38	12	3.1	0.75
4	2.2	76	83	553	45	74	31	28	33	13	2.7	0.71
5	2.2	65	72	3,800	44	67	32	26	30	12	2.5	0.66
6	e2.1	51	83	1,340	48	62	41	25	27	11	2.4	0.61
7	2.8	40	493	750	58	58	99	23	24	11	2.5	0.54
8	5.0	32	405	490	85	54	146	23	22	10	2.5	0.46
9	4.3	26	269	361	114	51	138	22	20	9.5	2.3	0.41
10	4.0	23	197	288	134	48	120	21	19	8.9	2.1	0.36
11	4.1	30	144	233	132	45	108	20	18	8.4	1.9	0.31
12	4.0	37	113	222	125	42	96	19	18	8.2	1.7	0.25
13	3.9	43	90	1,100	129	40	84	19	79	7.8	1.5	0.21
14	3.9	39	73	626	150	38	72	22	91	7.4	1.8	0.19
15	4.0	33	60	455	149	36	62	19	65	7.0	3.8	3.5
16	3.9	29	52	357	137	35	56	18	54	6.5	3.8	5.9
17	4.0	25	45	292	119	33	50	17	45	6.1	3.5	6.4
18	4.1	24	40	241	105	32	45	16	38	5.8	3.2	7.2
19	4.1	21	36	203	96	31	41	16	33	5.7	2.6	7.9
20	4.4	20	32	176	88	30	38	16	28	5.3	2.2	6.8
21	4.5	20	30	155	79	30	39	15	25	5.0	2.1	5.8
22	5.1	20	28	134	69	32	53	14	23	4.6	1.8	4.9
23	6.7	20	26	112	74	32	53	157	20	6.1	1.7	4.1
24	5.8	29	24	99	100	30	47	1,390	18	6.9	1.6	3.6
25	5.6	71	23	90	130	30	42	754	17	5.1	1.5	3.3
26	5.9	86	21	80	129	29	41	317	16	4.7	1.5	2.9
27	5.9	78	20	69	119	29	38	182	15	7.0	1.4	2.7
28	6.1	71	20	64	109	28	40	124	14	5.4	1.3	2.4
29	6.8	83	20	60	---	27	40	94	13	4.9	1.1	2.2
30	9.2	208	19	55	---	26	37	75	12	4.5	1.0	2.1
31	14	---	19	52	---	26	---	60	---	4.1	0.94	---
MEAN	4.71	51.8	95.4	404	96.8	43.8	59.3	117	31.6	7.74	2.23	2.63
MAX	14	208	493	3,800	150	97	146	1,390	91	13	3.8	7.9
MIN	2.1	20	19	18	44	26	30	14	12	4.1	0.94	0.19
IN.	0.09	0.95	1.81	7.66	1.66	0.83	1.09	2.22	0.58	0.15	0.04	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	7.32	22.4	45.5	138	106	95.5	100	150	107	50.8	6.18	4.16
MAX	23.3	51.8	95.4	404	256	231	270	466	254	207	17.3	11.6
(WY)	(2002)	(2005)	(2005)	(2005)	(2001)	(2004)	(2004)	(2002)	(2000)	(2004)	(2004)	(2003)
MIN	1.77	3.63	8.00	12.4	28.1	43.8	26.3	12.2	31.6	7.60	2.23	0.66
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2001)	(2001)	(2005)	(2003)	(2005)	(2002)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

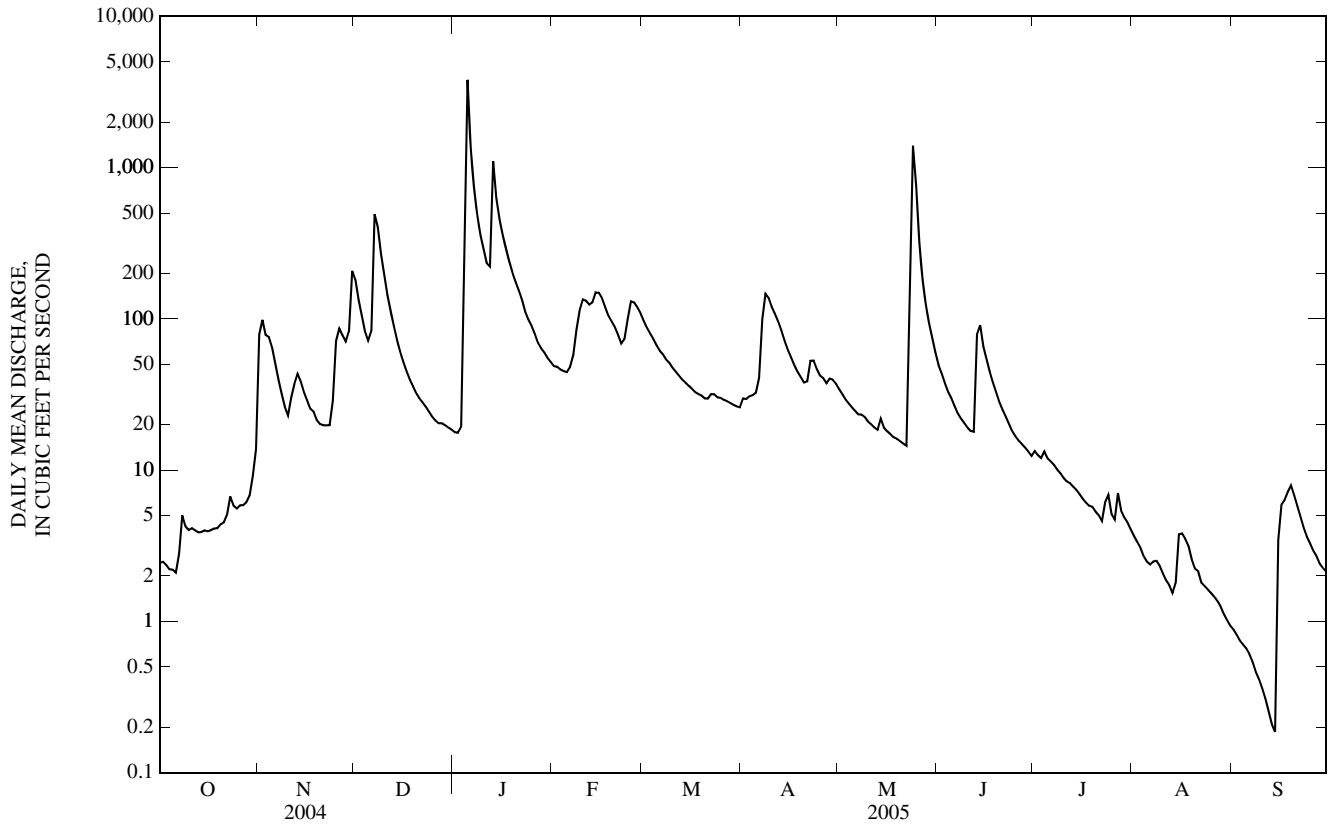
FOR 2005 WATER YEAR

WATER YEARS 2000 - 2005

ANNUAL MEAN	99.6	76.7	66.8
HIGHEST ANNUAL MEAN			92.3
LOWEST ANNUAL MEAN			31.7
HIGHEST DAILY MEAN	2,820	Apr 24	3,800
LOWEST DAILY MEAN	2.1	Oct 6	0.19
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 30	0.31
MAXIMUM PEAK FLOW	---		6,530
MAXIMUM PEAK STAGE	---		11.12
INSTANTANEOUS LOW FLOW	---		0.16
ANNUAL RUNOFF (INCHES)	22.30		17.12
10 PERCENT EXCEEDS	206		134
50 PERCENT EXCEEDS	38		28
90 PERCENT EXCEEDS	4.7		2.3

e Estimated

07189100 BUFFALO CREEK AT TIFF CITY, MO—Continued



07189100 BUFFALO CREEK AT TIFF CITY, MO—Continued  
(Ambient Water-Quality Monitoring Network)

PERIOD OF RECORD.--October 2004 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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, $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT 19...	1300	Environmental	4.2	9.4	102	7.3	295	17.7	--	--	--	--
NOV 16...	1125	Environmental	29	10.5	108	7.5	299	15.8	140	51.8	1.88	2.33
DEC 06...	1240	Environmental	74	11.5	113	7.4	277	13.2	--	--	--	--
JAN 11...	1055	Environmental	230	9.6	90	7.5	233	11.3	110	42.3	1.45	2.07
FEB 07...	1340	Environmental	58	11.5	106	7.6	258	10.2	--	--	--	--
MAR 21...	1620	Environmental	29	10.4	100	7.5	272	12.0	--	--	--	--
APR 19...	1020	Environmental	42	9.8	100	7.7	282	14.9	--	--	--	--
MAY 24...	1115	Environmental	162	7.7	83	7.6	279	17.1	130	50.0	1.71	2.31
JUN 27...	1245	Environmental	15	8.9	109	7.8	281	23.6	--	--	--	--
JUL 26...	0845	Blank	--	--	--	--	--	--		.06	.008	<.16
JUL 26...	0850	Environmental	4.8	5.9	71	7.5	282	22.9	140	52.9	1.69	2.55
AUG 22...	1255	Environmental	1.9	8.2	100	7.3	302	23.8	--	--	--	--
SEP 19...	1240	Environmental	8.1	7.8	95	6.8	292	23.6	--	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, end pt, field, mg/L as CaCO <sub>3</sub> (00410)	ANC, wat unfltrd, titr., field, mg/L as CaCO <sub>3</sub> (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 19...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	1.27
NOV 16...	5.42	124	124	151	<1	9.04	<.1	6.8	180d	<10	<.10	<.04	1.91
DEC 06...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	2.54
JAN 11...	4.15	87	87	107	<1	7.03	<.1	6.5	150d	<10	E.09n	<.04	2.99
FEB 07...	--	--	--	--	--	--	--	--	--	15	E.08n	<.04	2.42
MAR 21...	--	--	--	--	--	--	--	--	--	<10	.10	<.04	1.93
APR 19...	--	--	--	--	--	--	--	--	--	<10	E.09n	<.04	1.62
MAY 24...	5.01	115	116	142	<1	6.53	<.1	6.7	165	<10	.18	<.04	1.67
JUN 27...	--	--	--	--	--	--	--	--	--	<10	.11	<.04	1.21
JUL 26...	<.20	--	--	--	--	2.44	<.1	.5	<10	<10	<.10	<.04	<.06
JUL 26...	5.16	122	124	151	<1	6.77	<.1	5.8	157	<10	E.08n	<.04	1.30
AUG 22...	--	--	--	--	--	--	--	--	--	<10	E.10n	<.04	1.09
SEP 19...	--	--	--	--	--	--	--	--	--	<10	E.06n	<.04	.84

## 07189100 BUFFALO CREEK AT TIFF CITY, MO—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

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)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, 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)	Iron, water, fltrd, µg/L (01046)
OCT 19...	<.008	E.02n	E.02n	E.03n	14k	10k	--	--	--	--	--	--	--
NOV 16...	<.008	<.02	E.02n	<.04	34	58	E1n	6	.2	<.04	<.04	E.3n	<6
DEC 06...	<.008	.02	E.02n	E.02n	46	52	--	--	--	--	--	--	--
JAN 11...	<.008	.02	E.03n	E.03n	76	110	Mn	40	.2	<.04	<.04	.4	<6
FEB 07...	<.008	E.01n	<.04	E.02n	42	33k	--	--	--	--	--	--	--
MAR 21...	<.008	E.01n	<.04	E.02n	10k	15k	--	--	--	--	--	--	--
APR 19...	<.008	E.01n	E.02n	<.04	11k	48	--	--	--	--	--	--	--
MAY 24...	<.008	E.02n	.04	E.04n	670	810k	<2	36	.4	<.04	<.04	.5	<6
JUN 27...	<.008	E.01n	E.03n	<.04	8k	10k	--	--	--	--	--	--	--
JUL 26...	<.008	<.02	<.04	<.04	--	--	Mn	E1n	<.2	<.04	<.04	.7	E3n
JUL 26...	<.008	.02	E.03n	E.03n	38	170	<2	11	.3	<.04	<.04	.4	<6
AUG 22...	<.008	E.01n	E.03n	E.03n	13k	20	--	--	--	--	--	--	--
SEP 19...	<.008	.02	E.03n	E.03n	69	93k	--	--	--	--	--	--	--

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)	Mercury water, unfltrd recover-able, µg/L (71900)	Selenium, water, fltrd, µg/L (01145)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)
OCT 19...	--	--	--	--	--	--	--
NOV 16...	<.08	<.06	E.4n	E.01n	E.3n	2.0	E1n
DEC 06...	--	--	--	--	--	--	--
JAN 11...	.28	.27	E.4n	<.01	E.3n	.9	E1n
FEB 07...	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--
APR 19...	--	--	--	--	--	--	--
MAY 24...	<.08	.08	1.1	<.01	.8	.8	<2
JUN 27...	--	--	--	--	--	--	--
JUL 26...	.15	.12	<.6	<.01	<.4	3.1	3
JUL 26...	.09	.12	2.5	<.01	E.3n	.6	<2
AUG 22...	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.

E -- Estimated.

M-- Presence verified but 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



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 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Dis-charge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSISSIPPI RIVER BASIN ABOVE MISSOURI RIVER</b>								
<b>Fabius River Basin</b>								
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 <sup>2</sup> , slope 23.1 ft/mi.	1997-2005	04-12-05	8.64	+	05-14-2002	12.32	2,020 <sup>a</sup>
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 <sup>2</sup> , slope 7.02 ft/mi.	1997-2005	02-14-05	13.20	1,080	05-14-2002	18.17	3,700 <sup>a</sup>
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 <sup>2</sup> , slope 4.57 ft/mi.	1997-2005	02-14-05	17.23	1,090	05-14-2002	19.98	1,580
<b>Salt River Basin</b>								
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 <sup>2</sup> , slope 11.6 ft/mi.	1997-2005	06-10-05	13.21	1,890	05-10-2002	15.07	6,500 <sup>a</sup>
05514170 Irvine Branch near Bowling Green, Mo.	Lat 39°17'23", 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 <sup>2</sup> , slope 26.3 ft/mi.	1997-2005	01-05-05	12.09	1,140	06-26-03	18.66	6,180 <sup>a</sup>

## Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSOURI RIVER BASIN</b>								
<b>Little Tarkio Creek Basin</b>								
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 <sup>2</sup> , slope 19.0 ft/mi.	1997-2005	07-26-05	12.18	1,450	06-14-2001	19.5± <sup>c</sup>	3,900 <sup>a</sup>
<b>Platte River Basin</b>								
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 <sup>2</sup> , slope 24.5 ft/mi.	1997-2005	05-14-05	11.92	757	06-19-2001	18.85	+
<b>Fishing River Basin</b>								
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 <sup>2</sup> , slope 28.6 ft/mi.	1997-2005	02-13-05	7.85	+	10-05-1998	14.39	+
<b>Tabo Creek Basin</b>								
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 <sup>2</sup> , slope 11.4 ft/mi.	1997-2005	06-06-05	17.87	2,390	02-12-1999	19.80	+
<b>Grand River Basin</b>								
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 <sup>2</sup> , slope 14.2 ft/mi.	1997-2005	04-13-05	9.75	724	05-29-04	17.59	3,800
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 <sup>2</sup> , slope 17.1 ft/mi.	1997-2005	02-14-05	14.43	1,220	06-14-04	20.44	6,400 <sup>a</sup>

## Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSOURI RIVER BASIN--Continued</b>								
<b>Grand River Basin--Continued</b>								
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 <sup>2</sup> , slope 13.5 ft/mi.	1997-2005	05-13-05	15.00	1,740	05-24-04	15.52	2,200 <sup>a</sup>
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 <sup>2</sup> .	1987-2005	04-12-05	18.95	2,420	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 <sup>2</sup> , slope 30.6 ft/mi.	1997-2005	08-20-05	11.27	287	11-02-1998	14.53	+
<b>Chariton River Basin</b>								
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 <sup>2</sup> , slope 17.8 ft/mi.	1997-2005	04-12-05	7.76	593	08-27-04	14.16	4,020 <sup>a</sup>
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 <sup>2</sup> , slope 14.1 ft/mi.	1997-2005	06-13-05	15.43	2,730	05-12-2002	22.14	14,000 <sup>a</sup>
<b>Lamine River Basin</b>								
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 <sup>2</sup> , slope 35.3 ft/mi.	1997-2005	11-01-04	10.79	4,300	04-13-2001	15.08	+



## Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSOURI RIVER BASIN--Continued</b>								
<b>Lamine River Basin--Continued</b>								
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 <sup>2</sup> , slope 23.3 ft/mi.	1997-2005	01-08-05	10.36	801	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 <sup>2</sup> , slope 16.9 ft/mi.	1997-2005	10-28-04	9.75	892	08-04-2004	15.02	3,900 <sup>a</sup>
<b>Bonne Femme Creek Basin</b>								
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 <sup>2</sup> , slope 57.9 ft/mi.	1997-2005	05-19-05	11.83	647	05-19-2003	15.17	1,530 <sup>a</sup>
<b>Moniteau Creek Basin</b>								
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 <sup>2</sup> , slope 16.0 ft/mi.	1997-2005	01-05-05	12.64	7,060	07-30-1998	15.60	+
<b>Osage River Basin</b>								
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 <sup>2</sup> , slope 13.5 ft/mi.	1997-2005	01-05-05	13.65	1,440	05-05-1999	16.29	+
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 <sup>2</sup> , slope 26.0 ft/mi.	1997-2005	06-08-05	8.20	1,760	05-05-1999	8.35	1,850 <sup>b</sup>
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 <sup>2</sup> , slope 14.8 ft/mi.	1997-2005	06-06-05	13.47	+	05-09-2002	14.83	+

## Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSOURI RIVER BASIN--Continued</b>								
<b>Osage River Basin--Continued</b>								
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 <sup>2</sup> , slope 55.5 ft/mi.	1997-2005	01-06-05	4.18	321	04-19-2002	7.00	1,700 <sup>a</sup>
<b>Gasconade River Basin</b>								
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 <sup>2</sup> slope 40.2 ft/mi.	1997-2005	01-06-05	6.73	+	01-06-05	6.73	+
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 <sup>2</sup> , slope 42.9 ft/mi.	1997-2005	+	<4.71	+	05-20-2002	9.42	4,600 <sup>a</sup>
<b>Loutre River Basin</b>								
06934680 Dry Fork near Her- mann, 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 <sup>2</sup> , slope 68.7 ft/mi.	1997-2005	01-05-05	5.73	729	03-26-04	8.97	2,570
<b>Boeuf Creek Basin</b>								
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 <sup>2</sup> , slope 34.3 ft/mi.	1997-2005	01-07-05	10.59	1,390	05-07-2000	17.70	11,600 <sup>a</sup>

## Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER</b>								
<b>Meramec River Basin</b>								
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 <sup>2</sup> , slope 32.0 ft/mi	1997-2005	01-05-05	10.08	1,040	06-22-1997	12.19	2,150 <sup>b</sup>
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 <sup>2</sup> , slope 39.8 ft/mi.	1997-2005	04-22-05	10.63	+	04-22-05	10.63	+
<b>Headwater Diversion Channel Basin</b>								
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 <sup>2</sup> , slope 28.6 ft/mi.	1997-2005	12-07-04	7.76	1,250	04-03-1999	15.58	11,500 <sup>a</sup>
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 <sup>2</sup> , slope 33.5 ft/mi.	1997-2005	+	<6.28	+	05-19-2002	13.46	8,890 <sup>a</sup>
<b>White River Basin</b>								
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 <sup>2</sup> , slope 57.0 ft/mi.	1997-2005	01-05-05	3.84	442	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 <sup>2</sup> , slope 29.6 ft/mi.	1997-2005	01-06-05	9.24	630	01-06-05	9.24	630

## Maximum discharge at crest-stage partial-record stations--continued

Station number and name	Location and basin characteristics	Period of record	Water year 2005 maximum			Period of record maximum		
			Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)	Probable date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
<b>MISSISSIPPI RIVER BASIN BELOW MISSOURI RIVER--Continued</b>								
<b>White River Basin--Continued</b>								
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 <sup>2</sup> , slope 47.4 ft/mi.	1997-2005	01-05-05	8.29	1,330	05-19-2002	10.72	3,380 <sup>b</sup>
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 <sup>2</sup> , slope 60.7 ft/mi.	1997-2005	01-06-05	8.67	1,200	05-19-2002	15.41	9,900 <sup>a</sup>
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 <sup>2</sup> , slope 17.0 ft/mi.	1997-2005	01-14-05	5.48	+	05-19-2002	13.81	12,000 <sup>b</sup>
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 <sup>2</sup> , slope 48.1 ft/mi.	1997-2005	+	<4.44	+	04-05-1997	7.20	738

+ Not determined.

<sup>a</sup> Discharge determined by indirect method.<sup>b</sup> Rating extrapolated beyond indirect peak discharge.<sup>c</sup> From floodmark.<sup>d</sup> 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 2004 TO SEPTEMBER 2005

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 $\mu$ 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)
07064400 MONTAUK SPRINGS AT MONTAUK												
OCT 07...	1230	Environmental	46	8.2	82	7.7	320	14.1	<.10	<.04	.78	<.008
MAY 25...	1200	Environmental	92	8.4	84	7.4	300	14.1	<.10	<.04	.80	<.008
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK												
OCT 07...	1100	Environmental	51	10.0	99	7.8	320	13.9	.11	E.03n	.71	.009
MAY 25...	1045	Environmental	80	10.3	105	7.5	306	14.7	.16	.04	.67	E.006n
07065000 ROUND SPRING AT ROUND SPRING												
OCT 06...	1500	Environmental	21	8.6	85	7.7	343	14.3	<.10	<.04	.33	<.008
OCT 06...	1501	Replicate	--	8.5	84	7.7	343	14.3	<.10	<.04	.33	<.008
MAY 25...	0830	Environmental	26	9.1	92	7.4	323	14.0	<.10	<.04	.28	<.008
07065500 ALLEY SPRING AT ALLEY												
OCT 06...	1330	Environmental	89	10.3	102	7.2	324	14.3	<.10	<.04	.66	<.008
MAY 24...	1530	Environmental	119	10.2	102	7.5	295	14.3	<.10	<.04	.66	<.008
07066510 CURRENT RIVER ABOVE POWDER MILL												
OCT 06...	1115	Environmental	522	9.9	98	7.8	348	14.5	<.10	<.04	.26	<.008
MAY 24...	1315	Environmental	713	9.3	107	8.0	331	20.9	E.07n	<.04	.25	<.008
07066550 BLUE SPRING NEAR EMINENCE												
OCT 06...	0945	Environmental	92	9.1	89	7.7	313	14.1	<.10	<.04	.37	<.008
MAY 24...	1130	Environmental	114	9.7	95	7.6	285	13.5	<.10	<.04	.37	<.008
MAY 24...	1145	Blank	--	--	--	--	--	--	<.10	<.04	<.06	<.008

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

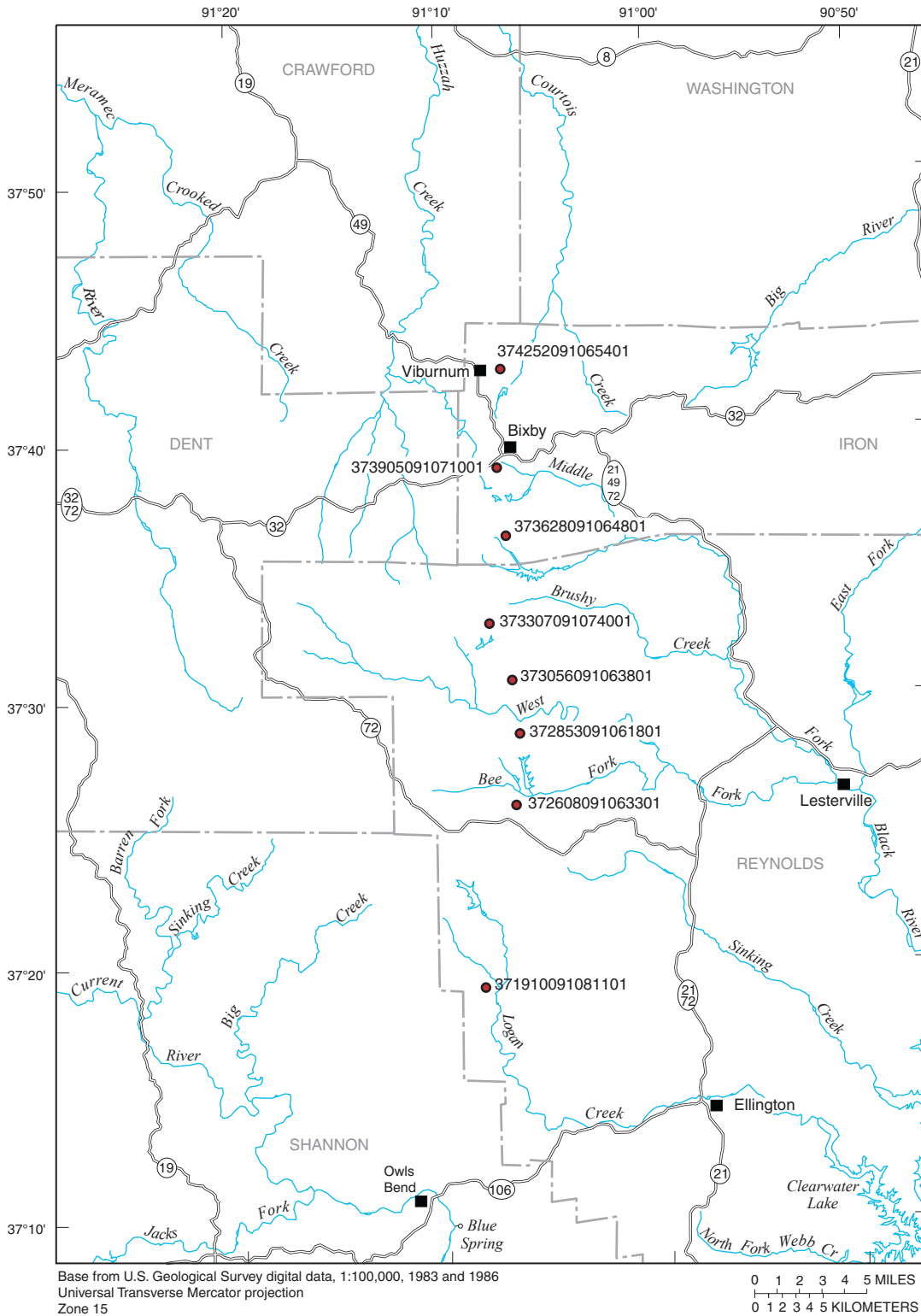
Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	E coli, m-TEC MF, col/100 mL (31633)	Fecal coli-form, M-FC 0.7 $\mu$ MF col/100 mL (31625)	Cadmium water, unfltrd, $\mu$ g/L (01027)	Lead, water, unfltrd recover-able, $\mu$ g/L (01051)	Silver, water, unfltrd recover-able, $\mu$ g/L (01077)	Zinc, water, unfltrd recover-able, $\mu$ g/L (01092)
07064400 MONTAUK SPRINGS AT MONTAUK									
OCT 07...	<.02	<.04	<.04	2k	3k	<.04	<.06	<.16	<2
MAY 25...	<.02	<.04	<.04	2k	1k	<.04	<.06	<.16	<2
07064440 CURRENT RIVER BELOW MONTAUK STATE PARK									
OCT 07...	.02	E.02n	E.03n	31	33	<.04	E.05n	<.16	<2
MAY 25...	<.02	<.04	<.04	10k	25	<.04	E.06n	<.16	<2
07065000 ROUND SPRING AT ROUND SPRING									
OCT 06...	<.02	<.04	<.04	3k	2k	<.04	<.06	<.16	<2
OCT 06...	<.02	<.04	<.04	<1b	6k	<.04	<.06	<.16	E2n
MAY 25...	<.02	<.04	<.04	4k	5k	<.04	E.03n	<.16	<2
07065500 ALLEY SPRING AT ALLEY									
OCT 06...	<.02	<.04	<.04	<1b	1k	<.04	E.04n	<.16	<2
MAY 24...	<.02	<.04	<.04	3k	8k	<.04	.07	<.16	<2
07066510 CURRENT RIVER ABOVE POWDER MILL									
OCT 06...	<.02	<.04	<.04	9k	29	<.04	<.06	<.16	<2
MAY 24...	<.02	<.04	<.04	1k	1k	<.04	E.03n	<.16	<2
07066550 BLUE SPRING NEAR EMINENCE									
OCT 06...	<.02	<.04	<.04	<1b	<1b	<.04	.06	<.16	<2
MAY 24...	<.02	<.04	<.04	1k	1k	<.04	<.06	<.16	<2
MAY 24...	<.02	<.04	<.04	--	--	<.04	<.06	<.16	<2

Remark codes used in this table:

< -- Less than.  
E -- Estimated.

Value qualifier codes used in this table:

b -- Value extrapolated at low end  
k -- Counts outside acceptable range  
n -- Below the LRL and above the LT-MDL



EXPLANATION

373056091063801 ● GROUND-WATER MONITORING WELL AND NUMBER



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.--Records rated good.

PERIOD OF RECORD.--February 23, 2002 to current year.

EXTREMES FOR CURRENT YEAR.--Maximum depth 74.55 ft, Oct. 22; minimum 55.38 ft, April 26.

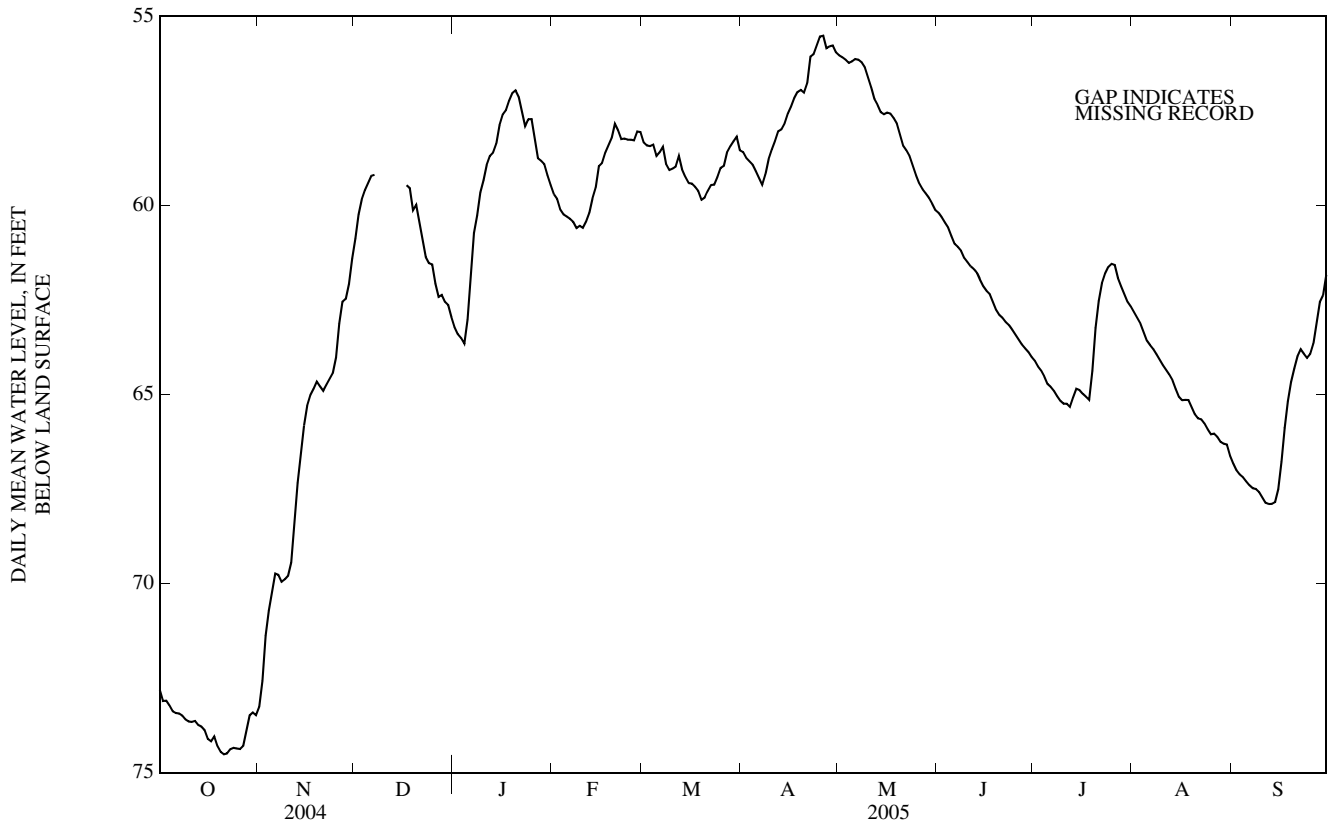
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72.81	73.26	60.88	63.22	59.70	58.33	58.59	56.03	60.20	64.11	62.82	66.82
2	73.10	72.57	60.24	63.40	59.83	58.41	58.75	56.08	60.31	64.26	62.97	67.00
3	73.10	71.38	59.84	63.51	60.11	58.43	58.83	56.15	60.46	64.37	63.13	67.11
4	73.22	70.71	59.59	63.66	60.24	58.39	58.92	56.23	60.58	64.52	63.36	67.18
5	73.37	70.25	59.40	63.02	60.29	58.69	59.09	56.19	60.81	64.72	63.58	67.30
6	73.42	69.74	59.22	61.74	60.35	58.59	59.27	56.13	61.01	64.80	63.69	67.40
7	73.43	69.77	59.19	60.73	60.44	58.45	59.46	56.15	61.09	64.90	63.80	67.48
8	73.49	69.95	59.21 <sup>a</sup>	60.27	60.60	58.91	59.18	56.21	61.19	65.04	63.94	67.50
9	73.59	69.89	---	59.65	60.54	59.06	58.77	56.34	61.39	65.17	64.08	67.58
10	73.65	69.79	---	59.33	60.59	59.03	58.52	56.62	61.50	65.24	64.22	67.72
11	73.66	69.44	---	58.93	60.43	58.97	58.29	56.88	61.61	65.24	64.35	67.86
12	73.63	68.32	---	58.69	60.20	58.69	58.04	57.19	61.68	65.33	64.47	67.90
13	73.74	67.34	---	58.60	59.81	59.05	57.99	57.34	61.78	65.08	64.62	67.89
14	73.78	66.53	---	58.37	59.53	59.25	57.83	57.53	61.97	64.85	64.85	67.84
15	73.87	65.82	---	57.88	58.96	59.41	57.57	57.59	62.14	64.88	65.06	67.50
16	74.11	65.30	59.27 <sup>a</sup>	57.60	58.87	59.42	57.38	57.55	62.26	64.98	65.15	66.78
17	74.17	65.01	59.47	57.48	58.60	59.51	57.16	57.57	62.34	65.06	65.14	65.89
18	74.04	64.85	59.54	57.23	58.41	59.62	57.00	57.69	62.55	65.14	65.14	65.18
19	74.30	64.66	60.13	57.03	58.22	59.85	56.95	57.83	62.76	64.37	65.33	64.67
20	74.45	64.79	59.98	56.96	57.84	59.79	57.02	58.13	62.90	63.24	65.52	64.31
21	74.51	64.91	60.47	57.13	58.01	59.61	56.77	58.42	62.97	62.53	65.63	63.99
22	74.49	64.74	60.93	57.53	58.24	59.46	56.07	58.55	63.08	62.06	65.66	63.80
23	74.38	64.59	61.37	57.90	58.23	59.45	56.00	58.70	63.17	61.80	65.77	63.92
24	74.34	64.43	61.53	57.72	58.26	59.25	55.77	58.96	63.28	61.62	65.92	64.03
25	74.36	64.02	61.56	57.71	58.26	59.00	55.53	59.21	63.41	61.54	66.05	63.93
26	74.38	63.13	62.07	58.24	58.28	58.95	55.51	59.43	63.54	61.58	66.03	63.65
27	74.29	62.55	62.42	58.75	58.05	58.59	55.84	59.57	63.67	61.92	66.12	63.11
28	73.89	62.47	62.37	58.82	58.06	58.43	55.79	59.68	63.78	62.14	66.25	62.56
29	73.48	62.07	62.55	58.91	---	58.30	55.77	59.80	63.87	62.34	66.30	62.38
30	73.41	61.40	62.63	59.20	---	58.18	55.95	59.95	64.01	62.55	66.32	61.84
31	73.48	---	62.95	59.46	---	58.54	---	60.13	---	62.67	66.62	---
MEAN	73.80	66.79	---	59.31	59.25	58.96	57.45	57.74	62.18	63.81	64.90	65.74
MAX	74.51	73.26	---	63.66	60.60	59.85	59.46	60.13	64.01	65.33	66.62	67.90
MIN	72.81	61.40	---	56.96	57.84	58.18	55.51	56.03	60.20	61.54	62.82	61.84

<sup>a</sup> Observed.



IRON COUNTY—Continued



## GROUND-WATER LEVELS

## IRON COUNTY

WELL IDENTIFICATION.--373905091071001; T34N R02W 11DAA; Viburnum Trend Well 2.

LOCATION.--Lat 37°39'05", 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.--Records rated fair.

PERIOD OF RECORD.--February 14, 2002 to current year.

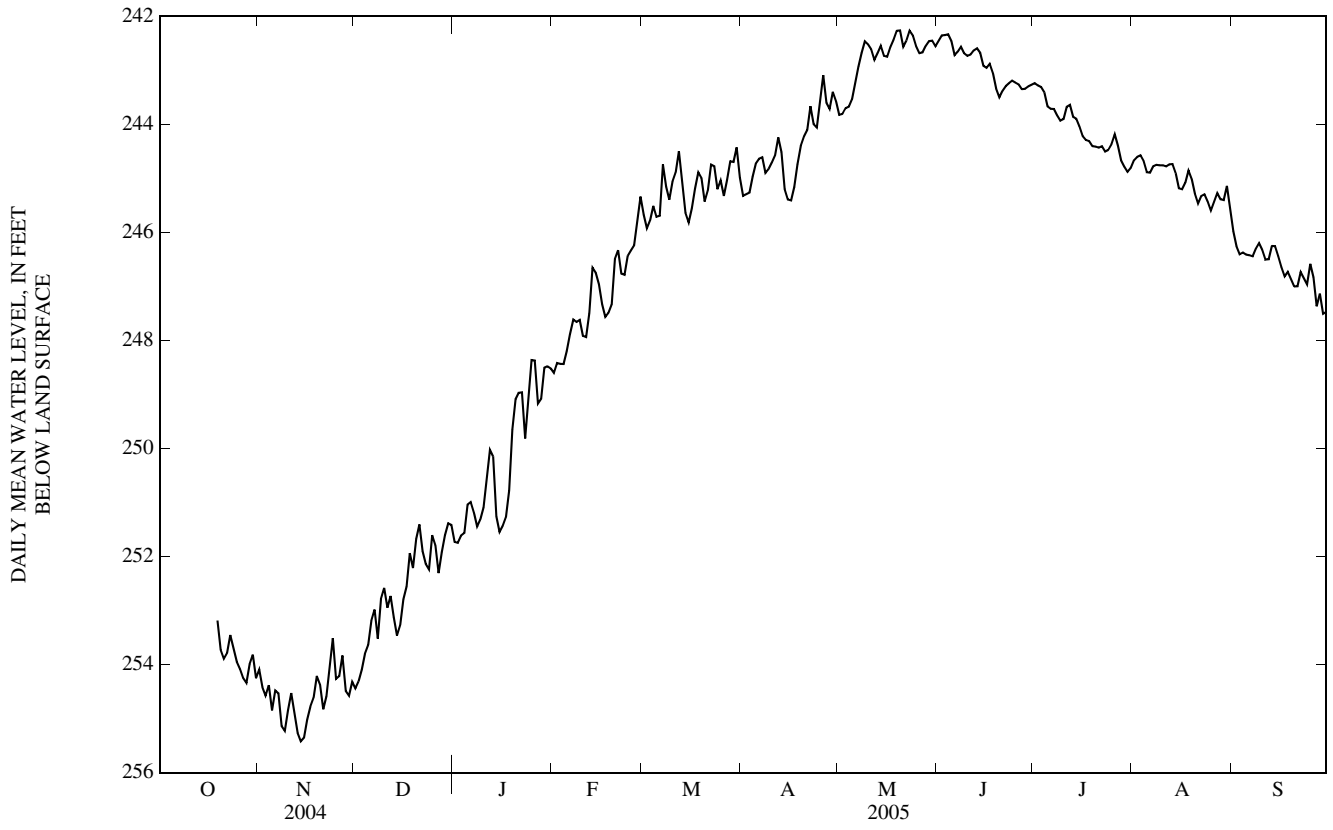
EXTREMES FOR CURRENT YEAR.--Maximum depth 255.45 ft, Nov. 14 and 15; minimum 242.13 ft, May 20.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	254.09	254.44	251.73	248.60	245.67	245.32	243.82	242.45	243.24	244.66	245.98
2	---	254.42	254.31	251.75	248.42	245.92	245.29	243.81	242.35	243.28	244.60	246.26
3	---	254.58	254.09	251.61	248.43	245.78	245.26	243.70	242.35	243.31	244.57	246.40
4	---	254.38	253.80	251.56	248.44	245.51	244.96	243.67	242.33	243.41	244.68	246.37
5	---	254.85	253.64	251.04	248.20	245.71	244.72	243.53	242.46	243.67	244.88	246.41
6	---	254.48	253.19	250.99	247.88	245.69	244.64	243.23	242.72	243.71	244.89	246.42
7	---	254.54	252.98	251.19	247.61	244.74	244.61	242.93	242.65	243.71	244.78	246.44
8	---	255.14	253.52	251.44	247.66	245.15	244.90	242.68	242.56	243.83	244.75	246.30
9	---	255.23	252.78	251.31	247.62	245.39	244.83	242.46	242.68	243.93	244.76	246.20
10	---	254.84	252.58	251.09	247.91	245.06	244.71	242.52	242.73	243.90	244.76	246.32
11	---	254.53	252.95	250.52	247.94	244.89	244.57	242.61	242.71	243.67	244.78	246.50
12	---	254.88	252.73	250.02	247.49	244.50	244.24	242.81	242.63	243.64	244.74	246.50
13	---	255.26	253.13	250.15	246.65	245.09	244.51	242.68	242.59	243.86	244.73	246.25
14	---	255.42	253.46	251.26	246.74	245.64	245.20	242.54	242.68	243.90	244.90	246.25
15	---	255.35	253.27	251.55	246.96	245.82	245.39	242.73	242.91	244.04	245.18	246.44
16	---	255.02	252.79	251.43	247.33	245.55	245.41	242.75	242.95	244.22	245.20	246.64
17	---	254.77	252.55	251.27	247.56	245.18	245.16	242.57	242.88	244.29	245.08	246.81
18	252.95 <sup>a</sup>	254.61	251.94	250.78	247.49	244.89	244.74	242.43	243.06	244.31	244.85	246.73
19	253.18	254.21	252.21	249.65	247.33	244.99	244.40	242.27	243.34	244.40	245.01	246.87
20	253.73	254.37	251.67	249.09	246.49	245.43	244.22	242.26	243.50	244.41	245.28	247.00
21	253.89	254.83	251.41	248.90	246.33	245.22	244.11	242.57	243.38	244.43	245.46	247.00
22	253.78	254.58	251.90	248.96	246.76	244.75	243.66	242.45	243.29	244.40	245.33	246.73
23	253.45	254.06	252.14	249.81	246.79	244.78	244.00	242.26	243.24	244.50	245.29	246.85
24	253.71	253.51	252.24	249.13	246.43	245.20	244.06	242.36	243.19	244.47	245.43	246.96
25	253.95	254.27	251.61	248.36	246.33	245.04	243.57	242.55	243.22	244.37	245.60	246.58
26	254.08	254.21	251.79	248.37	246.24	245.32	243.09	242.68	243.26	244.18	245.44	246.83
27	254.25	253.83	252.31	249.17	245.80	245.03	243.60	242.67	243.35	244.40	245.27	247.37
28	254.34	254.49	251.92	249.08	245.34	244.68	243.71	242.54	243.34	244.67	245.38	247.13
29	253.99	254.58	251.60	248.50	---	244.70	243.40	242.46	243.30	244.78	245.40	247.51
30	253.82	254.32	251.39	248.48	---	244.42	243.57	242.45	243.27	244.88	245.14	247.47
31	254.25	---	251.41	248.52	---	244.99	---	242.55	---	244.81	245.58	---
MEAN	---	254.59	252.64	250.22	247.24	245.18	244.46	242.76	242.91	244.08	245.05	246.65
MAX	---	255.42	254.44	251.75	248.60	245.92	245.41	243.82	243.50	244.88	245.60	247.51
MIN	---	253.51	251.39	248.36	245.34	244.42	243.09	242.26	242.33	243.24	244.57	245.98

<sup>a</sup> Observed

IRON COUNTY—Continued



## 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 ¼ NE ¼ SW ¼ 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.--Records rated good.

PERIOD OF RECORD.--February 14, 2002 to current year.

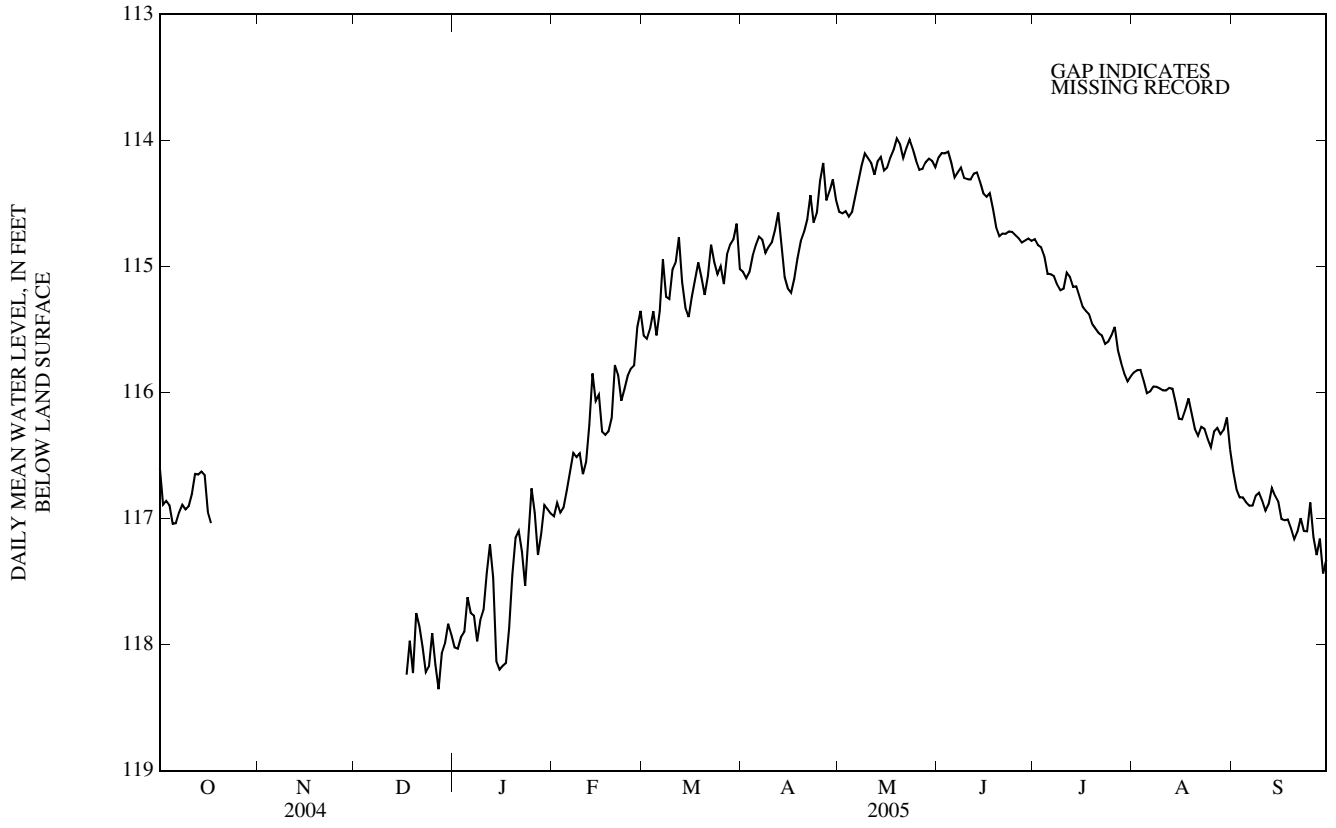
EXTREMES FOR CURRENT YEAR.--Maximum depth 118.45 ft, Dec. 27; minimum 113.91 ft, May 20.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116.60	---	---	118.02	116.98	115.55	115.04	114.57	114.14	114.78	115.84	116.63
2	116.89	---	---	118.03	116.87	115.57	115.09	114.58	114.10	114.83	115.82	116.77
3	116.86	---	---	117.94	116.95	115.49	115.05	114.56	114.10	114.85	115.82	116.83
4	116.89	---	---	117.90	116.91	115.36	114.92	114.60	114.09	114.92	115.91	116.83
5	117.04	---	---	117.62	116.78	115.55	114.83	114.57	114.18	115.06	116.01	116.87
6	117.04	---	---	117.75	116.63	115.36	114.76	114.44	114.29	115.06	115.99	116.90
7	116.95	---	---	117.77	116.48	114.94	114.79	114.32	114.25	115.08	115.95	116.90
8	116.89	---	118.24 <sup>a</sup>	117.97	116.51	115.24	114.89	114.20	114.22	115.14	115.95	116.82
9	116.93	---	---	117.81	116.48	115.26	114.84	114.10	114.30	115.19	115.97	116.80
10	116.90	---	---	117.72	116.65	115.02	114.81	114.14	114.31	115.18	115.98	116.86
11	116.80	---	---	117.43	116.55	114.97	114.71	114.18	114.31	115.05	115.98	116.94
12	116.65	---	---	117.21	116.26	114.77	114.57	114.27	114.26	115.08	115.96	116.89
13	116.65	---	---	117.47	115.85	115.12	114.81	114.17	114.25	115.16	115.97	116.76
14	116.63	---	---	118.13	116.07	115.33	115.09	114.13	114.33	115.16	116.08	116.82
15	116.65	---	---	118.20	116.02	115.40	115.18	114.24	114.42	115.24	116.21	116.87
16	116.95	---	118.34 <sup>a</sup>	118.17	116.31	115.24	115.21	114.21	114.45	115.32	116.21	117.00
17	117.04	---	118.24	118.15	116.34	115.11	115.10	114.14	114.42	115.35	116.14	117.01
18	116.71 <sup>a</sup>	---	117.97	117.87	116.31	114.97	114.94	114.08	114.54	115.38	116.05	117.01
19	---	---	118.23	117.45	116.20	115.09	114.80	113.98	114.69	115.46	116.16	117.08
20	---	---	117.75	117.15	115.78	115.23	114.73	114.03	114.76	115.49	116.29	117.16
21	---	---	117.85	117.10	115.86	115.08	114.63	114.14	114.74	115.53	116.34	117.10
22	---	---	118.02	117.26	116.06	114.83	114.44	114.06	114.74	115.55	116.27	117.00
23	---	---	118.22	117.53	115.97	114.97	114.65	113.99	114.72	115.61	116.29	117.10
24	---	---	118.17	117.11	115.87	115.06	114.58	114.07	114.73	115.60	116.37	117.10
25	---	---	117.91	116.76	115.81	115.00	114.32	114.16	114.75	115.55	116.43	116.87
26	---	---	118.16	116.96	115.78	115.14	114.18	114.23	114.78	115.48	116.31	117.15
27	---	---	118.35	117.29	115.48	114.90	114.48	114.23	114.81	115.67	116.28	117.29
28	---	---	118.07	117.12	115.35	114.83	114.40	114.17	114.79	115.76	116.33	117.16
29	---	---	117.99	116.89	---	114.78	114.31	114.14	114.78	115.85	116.30	117.44
30	---	---	117.83	116.93	---	114.66	114.47	114.16	114.80	115.91	116.20	117.33
31	---	---	117.92	116.96	---	115.02	---	114.21	---	115.87	116.45	---
MEAN	---	---	---	117.54	116.25	115.12	114.75	114.23	114.47	115.33	116.12	116.98
MAX	---	---	---	118.20	116.98	115.57	115.21	114.60	114.81	115.91	116.45	117.44
MIN	---	---	---	116.76	115.35	114.66	114.18	113.98	114.09	114.78	115.82	116.63

<sup>a</sup> Observed.

GROUND-WATER LEVELS  
IRON COUNTY—Continued



## 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.--Records rated fair.

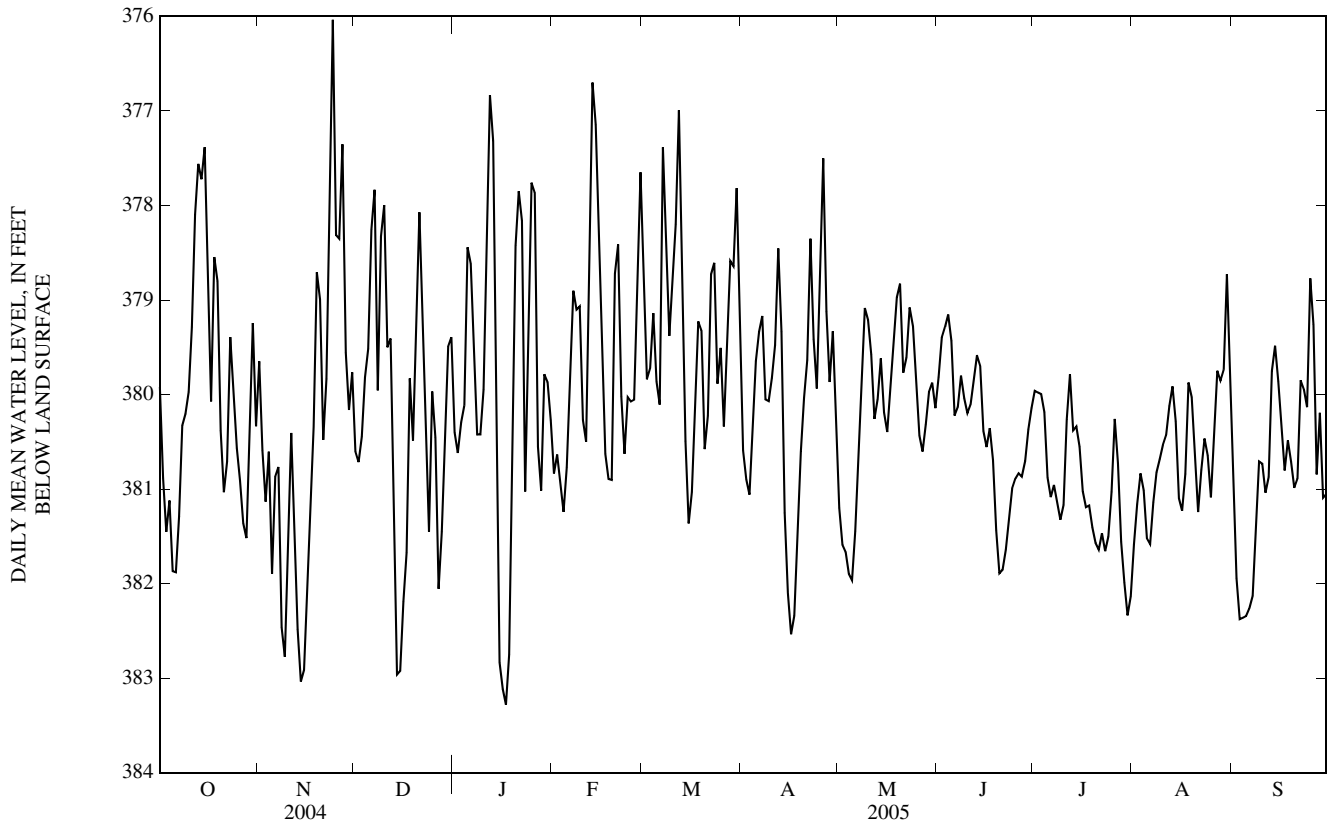
PERIOD OF RECORD.--February 14, 2002 to current year.

EXTREMES FOR CURRENT YEAR.--Maximum depth 383.33 ft, Jan. 17; minimum 375.34 ft, Nov. 24.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379.92	379.65	380.60	380.40	380.84	378.82	380.59	381.20	379.82	379.96	381.58	381.10
2	380.88	380.59	380.72	380.62	380.64	379.84	380.90	381.59	379.40	379.98	381.16	381.94
3	381.45	381.13	380.45	380.30	380.94	379.73	381.06	381.66	379.29	380.00	380.84	382.38
4	381.12	380.60	379.82	380.11	381.24	379.14	380.38	381.90	379.15	380.19	381.01	382.36
5	381.87	381.90	379.52	378.44	380.77	379.86	379.65	381.96	379.43	380.88	381.52	382.34
6	381.88	380.87	378.26	378.62	379.78	380.11	379.34	381.45	380.22	381.08	381.58	382.26
7	381.29	380.77	377.83	379.42	378.90	377.39	379.17	380.59	380.13	380.96	381.14	382.13
8	380.33	382.46	379.96	380.42	379.10	378.48	380.05	379.75	379.80	381.14	380.82	381.40
9	380.20	382.77	378.33	380.42	379.07	379.38	380.07	379.09	380.04	381.32	380.68	380.71
10	379.97	381.77	378.00	379.95	380.27	378.70	379.83	379.21	380.20	381.17	380.53	380.73
11	379.29	380.41	379.50	378.30	380.50	378.20	379.48	379.58	380.11	380.26	380.43	381.04
12	378.10	381.27	379.41	376.83	379.16	376.99	378.45	380.26	379.84	379.79	380.12	380.87
13	377.56	382.49	381.14	377.32	376.70	378.66	379.33	380.05	379.59	380.38	379.91	379.75
14	377.72	383.04	382.96	381.25	377.15	380.49	381.25	379.62	379.70	380.34	380.28	379.49
15	377.38	382.91	382.92	382.83	377.98	381.36	382.10	380.19	380.39	380.55	381.10	379.86
16	378.93	382.14	382.19	383.12	379.42	381.03	382.54	380.40	380.56	381.02	381.23	380.35
17	380.07	381.23	381.67	383.28	380.63	380.18	382.34	379.96	380.36	381.19	380.84	380.80
18	378.55	380.34	379.83	382.75	380.90	379.23	381.57	379.50	380.69	381.18	379.87	380.49
19	378.80	378.71	380.49	380.23	380.90	379.32	380.61	378.97	381.44	381.41	380.03	380.71
20	380.38	379.00	379.08	378.43	378.72	380.58	380.04	378.83	381.89	381.57	380.72	380.99
21	381.03	380.48	378.07	377.85	378.41	380.22	379.64	379.77	381.85	381.64	381.24	380.89
22	380.71	379.84	379.61	378.16	380.02	378.73	378.35	379.61	381.64	381.47	380.80	379.85
23	379.39	378.02	380.70	381.03	380.63	378.61	379.42	379.08	381.33	381.66	380.47	379.95
24	379.93	376.04	381.45	379.97	380.03	379.89	379.94	379.28	380.99	381.50	380.65	380.13
25	380.57	378.31	379.97	377.76	380.07	379.51	378.80	379.91	380.89	381.03	381.09	378.77
26	380.91	378.35	380.46	377.87	380.05	380.34	377.50	380.43	380.83	380.26	380.51	379.26
27	381.36	377.35	382.05	380.55	378.95	379.63	379.12	380.60	380.87	380.73	379.75	380.84
28	381.52	379.56	381.45	381.02	377.65	378.59	379.87	380.32	380.70	381.56	379.85	380.19
29	380.24	380.16	380.43	379.79	---	378.64	379.33	379.97	380.37	381.99	379.74	381.09
30	379.24	379.77	379.49	379.87	---	377.82	380.08	379.88	380.14	382.34	378.73	381.05
31	380.34	---	379.40	380.27	---	379.52	---	380.14	---	382.14	379.87	---
MEAN	380.03	380.40	380.19	379.91	379.62	379.32	380.03	380.15	380.39	380.99	380.58	380.79
MAX	381.88	383.04	382.96	383.28	381.24	381.36	382.54	381.96	381.89	382.34	381.58	382.38
MIN	377.38	376.04	377.83	376.83	376.70	376.99	377.50	378.83	379.15	379.79	378.73	378.77

REYNOLDS COUNTY—Continued



## 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.--Records rated good.

PERIOD OF RECORD.--February 23, 2002 to current year.

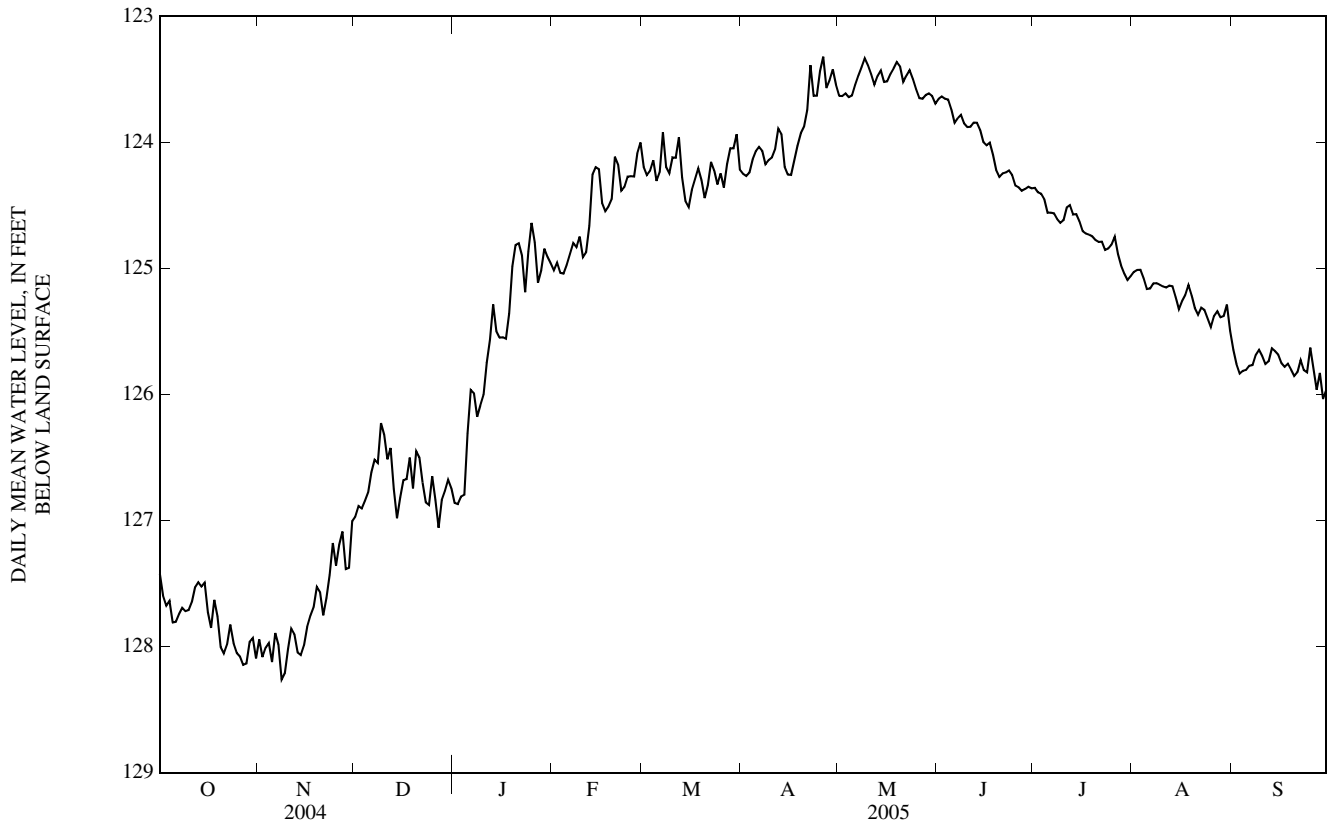
EXTREMES FOR CURRENT YEAR.--Maximum depth 128.33 ft, Nov. 8; minimum 123.23 ft, April 26.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127.42	127.94	126.97	126.86	125.01	124.19	124.25	123.63	123.65	124.36	125.03	125.64
2	127.60	128.08	126.89	126.87	124.95	124.26	124.27	123.63	123.64	124.40	125.01	125.76
3	127.67	128.01	126.90	126.81	125.03	124.22	124.24	123.61	123.65	124.41	125.01	125.83
4	127.64	127.97	126.84	126.79	125.04	124.14	124.13	123.64	123.66	124.45	125.08	125.81
5	127.81	128.12	126.78	126.31	124.97	124.31	124.07	123.63	123.74	124.56	125.16	125.80
6	127.80	127.89	126.62	125.96	124.89	124.24	124.04	123.54	123.84	124.56	125.16	125.77
7	127.74	127.98	126.52	125.99	124.80	123.92	124.07	123.47	123.81	124.56	125.12	125.77
8	127.69	128.26	126.54	126.18	124.83	124.19	124.17	123.40	123.78	124.61	125.12	125.69
9	127.72	128.21	126.23	126.09	124.75	124.24	124.14	123.33	123.85	124.64	125.13	125.64
10	127.71	128.02	126.32	126.00	124.91	124.12	124.12	123.39	123.88	124.62	125.14	125.69
11	127.65	127.86	126.51	125.75	124.87	124.12	124.05	123.46	123.88	124.52	125.15	125.76
12	127.53	127.90	126.42	125.57	124.66	123.96	123.89	123.54	123.84	124.50	125.14	125.74
13	127.49	128.05	126.75	125.29	124.26	124.28	123.94	123.47	123.84	124.57	125.14	125.63
14	127.52	128.07	126.98	125.50	124.20	124.47	124.19	123.43	123.90	124.57	125.23	125.66
15	127.49	127.99	126.82	125.55	124.21	124.51	124.25	123.52	124.00	124.63	125.32	125.68
16	127.73	127.84	126.68	125.55	124.48	124.38	124.26	123.52	124.02	124.70	125.26	125.75
17	127.85	127.75	126.67	125.56	124.54	124.29	124.14	123.46	124.00	124.72	125.21	125.78
18	127.63	127.69	126.50	125.36	124.51	124.21	124.03	123.41	124.10	124.73	125.13	125.76
19	127.76	127.53	126.74	124.98	124.45	124.30	123.93	123.36	124.22	124.75	125.22	125.80
20	128.00	127.57	126.45	124.81	124.11	124.44	123.88	123.40	124.27	124.77	125.32	125.85
21	128.05	127.75	126.50	124.80	124.18	124.34	123.74	123.52	124.25	124.79	125.37	125.82
22	127.98	127.62	126.70	124.90	124.38	124.15	123.39	123.47	124.24	124.79	125.31	125.73
23	127.83	127.43	126.86	125.19	124.35	124.22	123.63	123.43	124.22	124.85	125.33	125.81
24	127.97	127.18	126.88	124.86	124.27	124.33	123.63	123.50	124.26	124.84	125.40	125.82
25	128.05	127.36	126.65	124.64	124.27	124.25	123.43	123.58	124.34	124.81	125.46	125.63
26	128.08	127.19	126.84	124.79	124.27	124.36	123.32	123.65	124.36	124.75	125.38	125.80
27	128.15	127.09	127.06	125.11	124.09	124.17	123.57	123.65	124.38	124.88	125.34	125.96
28	128.13	127.39	126.84	125.02	124.00	124.05	123.51	123.62	124.37	124.98	125.39	125.83
29	127.96	127.38	126.76	124.84	---	124.05	123.42	123.61	124.35	125.04	125.38	126.04
30	127.93	127.00	126.68	124.91	---	123.93	123.54	123.63	124.36	125.09	125.29	125.96
31	128.09	---	126.74	124.96	---	124.22	---	123.69	---	125.06	125.50	---
MEAN	127.80	127.74	126.70	125.54	124.55	124.22	123.91	123.52	124.02	124.69	125.23	125.77
MAX	128.15	128.26	127.06	126.87	125.04	124.51	124.27	123.69	124.38	125.09	125.50	126.04
MIN	127.42	127.00	126.23	124.64	124.00	123.92	123.32	123.33	123.64	124.36	125.01	125.63



REYNOLDS COUNTY—Continued



## 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.--Records rated good except for the period April 2 to May 4, which is fair.

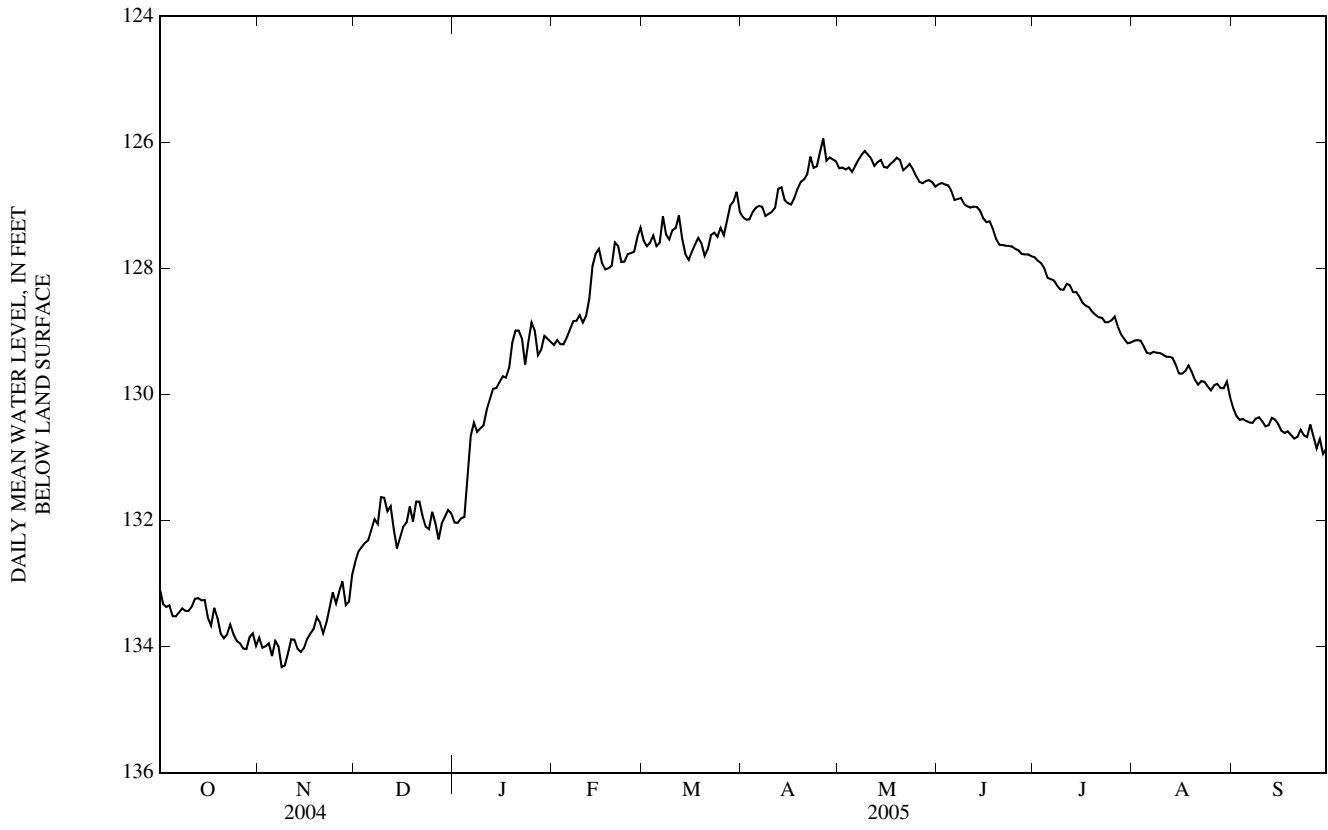
PERIOD OF RECORD.--February 22, 2002 to current year.

EXTREMES FOR CURRENT YEAR.--Maximum depth 134.37 ft, Nov. 8; minimum 125.98 ft, Apr. 26.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133.09	133.86	132.65	132.03	129.21	127.56	127.19	126.41	126.66	127.82	129.15	130.22
2	133.32	134.02	132.49	132.04	129.13	127.65	127.23	126.40	126.64	127.88	129.14	130.34
3	133.37	133.99	132.42	131.97	129.20	127.59	127.22	126.43	126.67	127.92	129.14	130.40
4	133.35	133.95	132.35	131.94	129.20	127.48	127.11	126.40	126.68	128.00	129.23	130.39
5	133.52	134.15	132.32	131.34	129.10	127.65	127.04	126.47	126.77	128.15	129.34	130.42
6	133.52	133.91	132.14	130.65	128.97	127.59	127.01	126.37	126.91	128.17	129.35	130.44
7	133.46	133.99	131.98	130.44	128.84	127.17	127.02	126.28	126.90	128.19	129.32	130.45
8	133.40	134.32	132.06	130.59	128.83	127.46	127.16	126.19	126.88	128.27	129.34	130.38
9	133.43	134.30	131.63	130.54	128.74	127.54	127.13	126.14	126.98	128.33	129.34	130.36
10	133.43	134.10	131.64	130.49	128.86	127.39	127.10	126.19	127.02	128.34	129.37	130.42
11	133.37	133.88	131.85	130.24	128.75	127.36	127.04	126.26	127.03	128.24	129.40	130.51
12	133.24	133.89	131.77	130.07	128.48	127.16	126.74	126.37	127.02	128.27	129.40	130.49
13	133.23	134.04	132.14	129.91	127.96	127.52	126.71	126.31	127.03	128.38	129.42	130.37
14	133.26	134.09	132.44	129.90	127.76	127.78	126.92	126.28	127.09	128.37	129.53	130.40
15	133.26	134.02	132.27	129.81	127.69	127.87	126.97	126.39	127.21	128.45	129.66	130.47
16	133.54	133.88	132.10	129.71	127.92	127.74	126.99	126.40	127.26	128.55	129.67	130.58
17	133.66	133.79	132.03	129.73	128.02	127.62	126.89	126.34	127.25	128.59	129.63	130.61
18	133.39	133.72	131.78	129.58	128.00	127.52	126.74	126.30	127.38	128.62	129.54	130.58
19	133.54	133.53	132.02	129.17	127.96	127.61	126.63	126.24	127.54	128.69	129.64	130.64
20	133.79	133.62	131.70	128.98	127.59	127.80	126.59	126.28	127.62	128.74	129.77	130.70
21	133.87	133.79	131.70	128.99	127.64	127.69	126.50	126.44	127.63	128.77	129.84	130.67
22	133.81	133.62	131.93	129.11	127.90	127.47	126.23	126.40	127.64	128.78	129.79	130.56
23	133.65	133.39	132.10	129.52	127.89	127.43	126.40	126.34	127.64	128.85	129.80	130.65
24	133.81	133.14	132.14	129.17	127.78	127.50	126.38	126.43	127.65	128.85	129.87	130.68
25	133.91	133.31	131.86	128.86	127.76	127.35	126.15	126.54	127.69	128.82	129.94	130.48
26	133.95	133.13	132.04	128.98	127.74	127.47	125.94	126.63	127.71	128.76	129.85	130.66
27	134.03	132.97	132.30	129.38	127.51	127.24	126.29	126.65	127.77	128.93	129.83	130.86
28	134.04	133.34	132.05	129.29	127.35	127.00	126.24	126.62	127.78	129.05	129.90	130.71
29	133.85	133.29	131.94	129.07	---	126.94	126.27	126.60	127.78	129.12	129.90	130.94
30	133.79	132.86	131.83	129.12	---	126.78	126.30	126.63	127.81	129.19	129.80	130.86
31	133.99	---	131.89	129.17	---	127.10	---	126.70	---	129.18	130.04	---
MEAN	133.58	133.73	132.05	129.99	128.28	127.45	126.74	126.40	127.25	128.52	129.58	130.54
MAX	134.04	134.32	132.65	132.04	129.21	127.87	127.23	126.70	127.81	129.19	130.04	130.94
MIN	133.09	132.86	131.63	128.86	127.35	126.78	125.94	126.14	126.64	127.82	129.14	130.22

REYNOLDS COUNTY—Continued



## 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.--Records rated good.

PERIOD OF RECORD.--March 20, 2002 to current year.

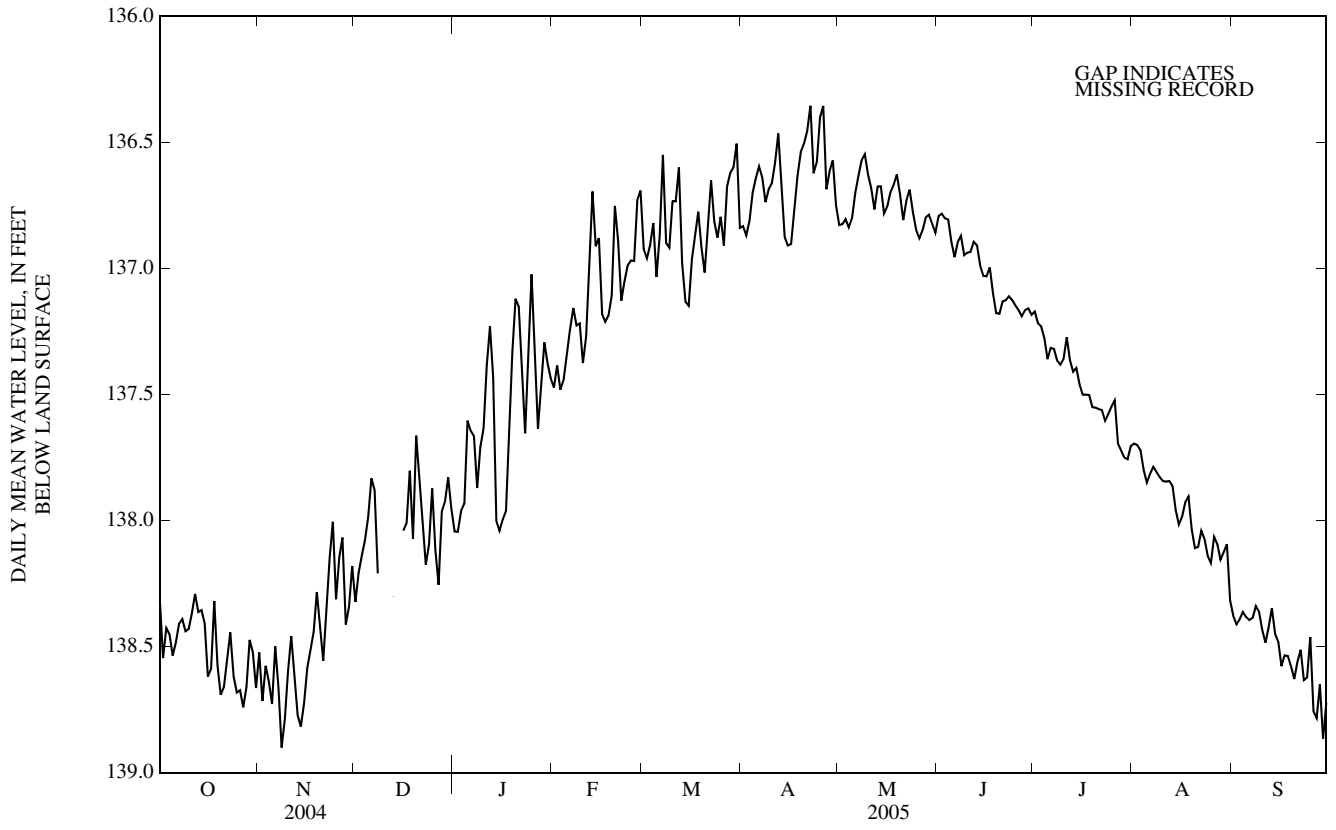
EXTREMES FOR CURRENT YEAR.--Maximum depth 138.98 ft, Nov. 8; minimum 136.22 ft, Apr. 26.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138.32	138.52	138.32	138.04	137.47	136.92	136.83	136.83	136.79	137.17	137.70	138.38
2	138.55	138.72	138.21	138.04	137.38	136.96	136.87	136.82	136.78	137.22	137.70	138.41
3	138.43	138.58	138.14	137.96	137.48	136.91	136.81	136.80	136.80	137.23	137.72	138.39
4	138.45	138.64	138.08	137.93	137.44	136.82	136.70	136.84	136.81	137.28	137.80	138.36
5	138.54	138.73	137.99	137.60	137.34	137.03	136.64	136.80	136.89	137.36	137.85	138.38
6	138.48	138.50	137.83	137.64	137.24	136.87	136.59	136.70	136.95	137.32	137.81	138.39
7	138.41	138.66	137.88	137.67	137.16	136.55	136.64	136.63	136.90	137.32	137.79	138.39
8	138.39	138.90	138.21 <sup>a</sup>	137.87	137.23	136.90	136.74	136.57	136.87	137.36	137.81	138.34
9	138.44	138.79	---	137.71	137.22	136.92	136.69	136.55	136.95	137.38	137.83	138.36
10	138.43	138.60	---	137.63	137.38	136.73	136.66	136.63	136.94	137.36	137.84	138.43
11	138.37	138.46	---	137.39	137.27	136.73	136.58	136.68	136.93	137.27	137.85	138.48
12	138.29	138.62	---	137.23	137.03	136.60	136.46	136.77	136.89	137.36	137.84	138.42
13	138.36	138.77	138.30 <sup>a</sup>	137.43	136.69	136.98	136.67	136.67	136.91	137.41	137.86	138.35
14	138.35	138.82	---	138.00	136.91	137.13	136.87	136.67	136.99	137.39	137.96	138.45
15	138.41	138.73	---	138.04	136.88	137.15	136.91	136.78	137.03	137.46	138.02	138.48
16	138.62	138.59	138.04	138.00	137.18	136.96	136.90	136.75	137.03	137.50	137.98	138.58
17	138.59	138.51	138.01	137.96	137.21	136.86	136.77	136.70	137.00	137.50	137.93	138.53
18	138.32	138.44	137.80	137.70	137.19	136.78	136.63	136.67	137.10	137.50	137.90	138.54
19	138.57	138.28	138.07	137.33	137.11	136.92	136.54	136.63	137.18	137.55	138.04	138.58
20	138.69	138.43	137.66	137.12	136.75	137.02	136.50	136.71	137.18	137.55	138.11	138.63
21	138.66	138.56	137.82	137.15	136.89	136.85	136.45	136.81	137.13	137.56	138.10	138.56
22	138.55	138.36	137.99	137.38	137.13	136.65	136.35	136.73	137.13	137.56	138.04	138.51
23	138.44	138.15	138.17	137.65	137.05	136.81	136.62	136.69	137.11	137.60	138.07	138.63
24	138.62	138.00	138.10	137.27	136.99	136.88	136.58	136.78	137.12	137.58	138.14	138.62
25	138.68	138.31	137.87	137.02	136.97	136.79	136.40	136.85	137.15	137.55	138.17	138.46
26	138.67	138.15	138.12	137.30	136.97	136.91	136.36	136.88	137.17	137.52	138.06	138.76
27	138.74	138.07	138.26	137.64	136.73	136.67	136.69	136.85	137.19	137.69	138.09	138.78
28	138.66	138.41	137.96	137.47	136.69	136.62	136.61	136.80	137.16	137.72	138.16	138.65
29	138.47	138.34	137.93	137.29	---	136.60	136.57	136.79	137.16	137.75	138.13	138.87
30	138.52	138.18	137.83	137.38	---	136.50	136.75	136.82	137.18	137.76	138.09	138.72
31	138.66	---	137.96	137.44	---	136.84	---	136.86	---	137.71	138.32	---
MEAN	138.51	138.49	---	137.59	137.11	136.83	136.65	136.74	137.01	137.47	137.96	138.51
MAX	138.74	138.90	---	138.04	137.48	137.15	136.91	136.88	137.19	137.76	138.32	138.87
MIN	138.29	138.00	---	137.02	136.69	136.50	136.35	136.55	136.78	137.17	137.70	138.34

<sup>a</sup> Observed.

REYNOLDS COUNTY—Continued



## 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.--Records rated good.

PERIOD OF RECORD.--February 23, 2002 to current year.

EXTREMES FOR CURRENT YEAR.--Maximum depth 61.26 ft, Oct. 27; minimum 40.51 ft, Jan. 13.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.16	58.58	45.02	53.08	49.15	47.88	46.15	45.86	50.86	---	---	---
2	60.35	52.66	45.66	53.29	49.21	48.26	46.92	46.19	50.94	---	---	---
3	60.38	54.80	46.31	53.41	49.46	48.34	47.39	46.44	51.07	---	---	---
4	60.38	54.65	46.65	51.77	49.60	48.35	47.51	46.82	51.21	---	---	---
5	60.47	56.70	46.88	46.11	49.65	48.64	47.67	47.11	51.42	---	---	---
6	60.46	57.49	46.66	43.18	49.64	48.73	47.88	47.22	51.65	---	---	---
7	60.43	58.33	45.31	43.60	49.40	48.38	48.02	47.32	51.73	---	---	---
8	60.38	58.94	45.33	44.50	47.65	48.79	48.41	47.42	51.80	---	---	60.08 <sup>a</sup>
9	60.43	59.01	45.37	44.96	46.79	49.01	48.49	47.50	51.93	---	---	---
10	60.46	58.93	45.67	45.14	47.33	49.01	48.53	47.68	52.04	---	---	---
11	60.45	51.47	46.20	45.14	47.55	49.13	48.25	47.87	51.90	---	---	---
12	60.40	49.58	46.33	45.17	47.21	49.05	45.11	48.10	51.51	---	---	---
13	60.48	50.56	47.39	41.92	44.54	49.51	44.69	48.17	52.06	---	---	---
14	60.56	52.23	49.38	40.92	43.38	49.87	44.85	48.24	52.23	---	---	---
15	60.56	53.76	49.87	41.91	43.52	50.09	44.98	48.48	52.41	---	---	---
16	60.82	54.62	50.07	42.74	43.91	50.10	45.50	48.62	52.51	---	---	---
17	60.88	55.19	50.41	43.42	44.27	50.10	45.91	48.74	52.56	---	---	---
18	60.73	55.41	50.29	43.74	44.38	50.08	46.02	48.89	52.66	---	---	---
19	60.88	50.62	50.94	43.68	44.45	50.25	46.24	48.98	52.81	---	---	---
20	61.02	50.12	50.78	43.77	44.29	50.54	46.58	49.13	52.99	---	---	---
21	61.08	51.81	50.90	44.01	44.65	50.58	46.43	49.40	53.18 <sup>a</sup>	---	---	---
22	61.06	52.32	51.42	44.49	45.88	50.25	45.92	49.50	---	---	---	---
23	60.17	52.64	51.82	45.56	46.50	50.10	46.53	49.57	---	---	---	---
24	60.82	49.50	52.11	45.50	46.68	50.09	46.74	49.72	---	---	---	---
25	61.11	47.16	52.02	45.40	47.09	49.34	46.45	49.95	---	---	---	---
26	61.19	47.75	52.32	46.36	47.39	49.04	46.23	50.16	---	---	---	---
27	60.86	47.99	52.71	47.74	47.22	46.48	47.13	50.30	---	---	---	---
28	60.02	48.57	52.62	48.10	47.17	45.09	47.31	50.38	---	---	---	---
29	59.84	48.27	52.65	48.22	---	44.98	46.14	50.47	---	---	---	---
30	60.60	45.31	52.70	48.60	---	44.85	45.38	50.61	---	---	---	---
31	60.94	---	52.85	48.89	---	45.29	---	50.79	---	---	---	---
MEAN	60.59	52.83	49.18	45.95	46.71	48.72	46.65	48.57	---	---	---	---
MAX	61.19	59.01	52.85	53.41	49.65	50.58	48.53	50.79	---	---	---	---
MIN	59.84	45.31	45.02	40.92	43.38	44.85	44.69	45.86	---	---	---	---

<sup>a</sup> Observed.

REYNOLDS COUNTY—Continued

